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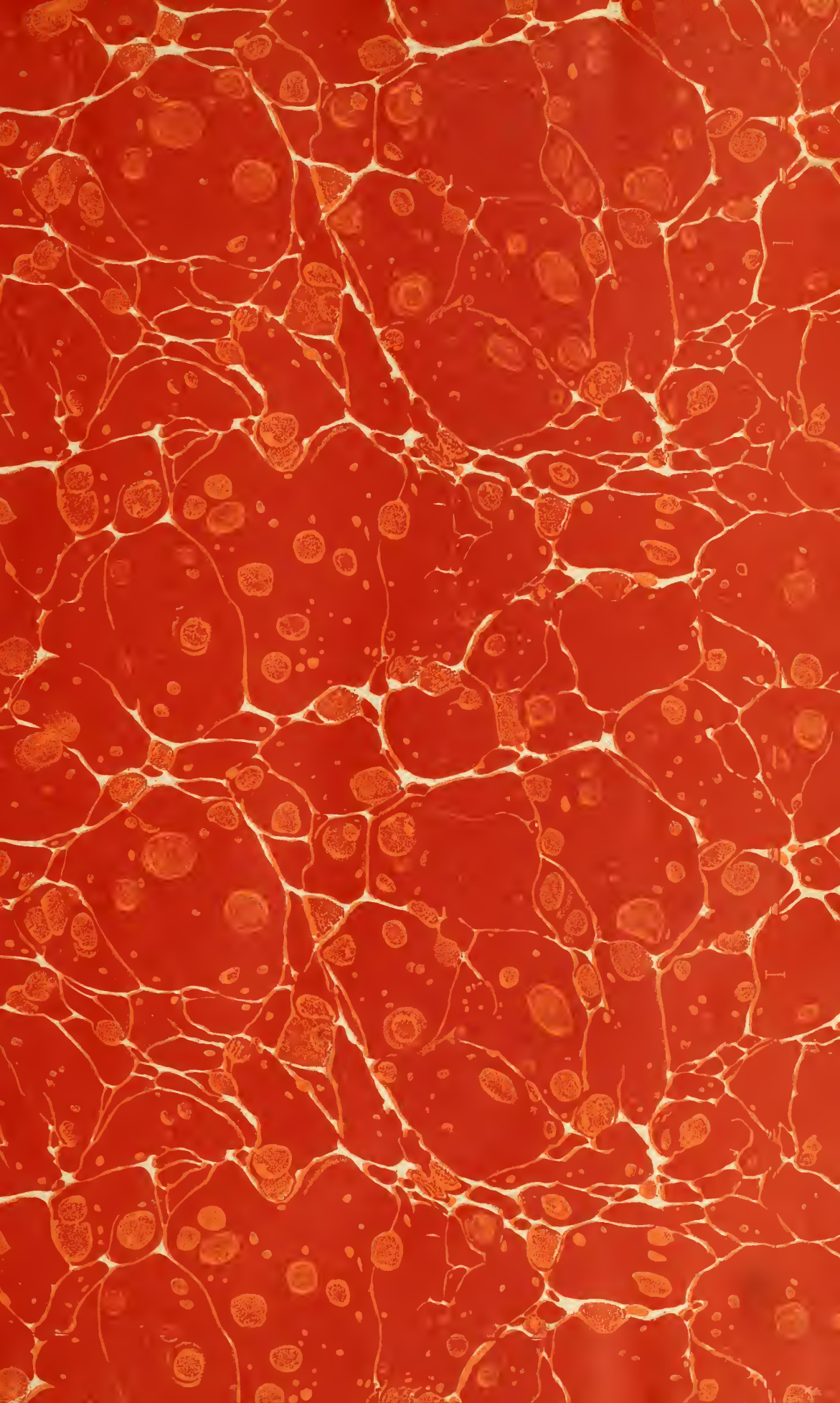
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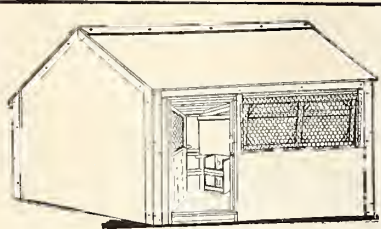
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Now is the time to start getting ready for next fall and winter

Increase Your Egg Yield 100%


during the molting season and next winter, when eggs are high, by putting into operation the principles laid down in George G. Newell's book,

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This book is not a collection of clippings and theories like so many poultry books, but contains the result of common-sense ideas which have been put to test and found practical. They do just what we say they will do — increase the average egg yield 100%. Cloth bound, 112 pages, handsomely illustrated, postpaid, price \$1.00.

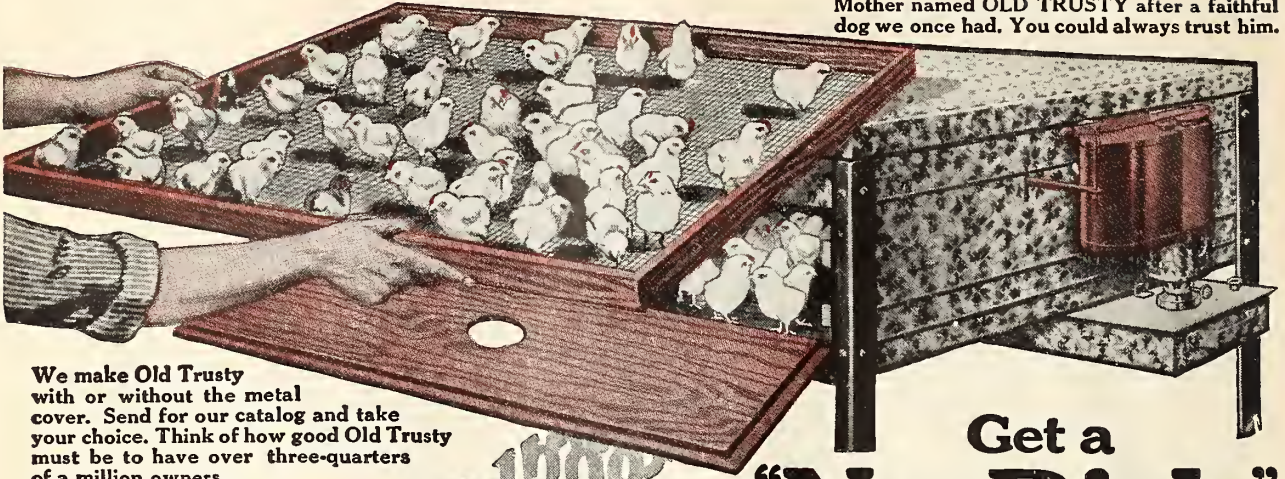
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A REVOLUTION
in
 EGG PRODUCTION



GEORGE C NEWELL

Mother named OLD TRUSTY after a faithful dog we once had. You could always trust him.



We make Old Trusty with or without the metal cover. Send for our catalog and take your choice. Think of how good Old Trusty must be to have over three-quarters of a million owners.

Neighbor's Successes Made Him Write Us

Buxton, Iowa, Oct. 1, 1917
Please mail me your catalog and other printed matter. Quite a few poultry raisers in this section are having phenomenal success with your product, has influenced me to investigate.

Yours truly,
Henry U. Mease.

Get a "No-Risk" This Year Hatcher

Year after year of big hatches has proved that you can depend upon Old Trusty. And Old Trusty is the hatcher you want this year. When users write, "I couldn't succeed without Old Trusty" and "I have used Old Trusty for ten years, and have had good luck every year" and "I always do better with Old Trusty"—isn't it a pretty sure sign that Old Trusty is all we claim it to be?

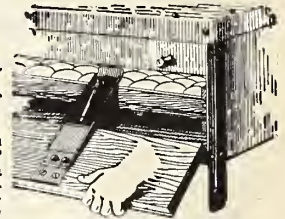
You haven't time for experiments this year. Eggs are worth big prices and poultry is selling high. You want a chick for every hatchable egg.

Extra Chicks Mean Extra Profits—Get Them With OLD TRUSTY

If you don't use Old Trusty where else can you get as good results? Where else can you find a hatcher invented by a practical engineer and poultry raiser? Or backed by 26 years' experience?

Or a hatcher built by workers who have been making the same machine for 10, or 15 years or more? Some of our men have been with us ever since we started in business.

Where else can you find a hatcher made and sold in such big quantities that you get the very limit in value at the lowest possible price? In short, where can you get an incubator equal to Old Trusty construction, even at any price? Don't risk experiments this year, Reader. You can't afford it. The world wants the produce—you want the profits. Get Old Trusty and make money—a sure income.



The Handy Thermometer Holder
Fastened to the inside of door. In view the instant you open the door. Saves time and stooping. Included on all Old Trustys but not shown on illustration above through an oversight of the artist.



Big Oil Drawer
Slides in under the machine. Holds 5 to 6 quarts. Instantly removed, but does not require removing for filling. Beats getting under incubator to fill and clean lamps, don't you think?

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Father made our first incubators in spare time while working at the mill. Old Trusty sales have since built up the largest incubator and brooder factory in the world.

Started in 1891 and still growing every year.

M.M. Johnson
Inventor of
Old Trusty



Write for Our Catalog

Old Trusty Incubators



Big Plans for our 1918 Customers

Write and let me tell you what they are. I want you to make a big success as an Old Trusty customer this year. Send me your name and address and let me tell you our plans. I have some good money-making ideas that you can use no matter how big or how little your poultry operations are.

Also let me send you our latest book—FREE. This 108 page book is a real Johnson production, and I think it bears acquaintance well if you would judge by the thousands of poultry raisers who send for it year after year. You see we write and print our own books, this being our latest annual catalog published for our 26th year in business.

Like Old Trusty, it's the result of our own experience in raising poultry and while I don't crack it up as a "cure-all" for every branch of poultry raising, it covers more subjects on making poultry profits than any book I know of. Send for a copy. It will help you—and we are glad to send it free. Mail the coupon or a postal for a copy today.

Winter Laid Eggs

Huntley, Mont., April 6, 1917.
We think the OLD TRUSTY has no equal and would not want to part with our machine. We have 80 hens that have laid all winter. We have sold \$109.50 worth of eggs, besides setting our incubators. One neighbor says he thinks that hens will lay enough more eggs to make up for not laying in the winter, but we get as many eggs now as he does, after having our hens lay all winter when eggs are the highest price.
Yours, A. L. HAGERMAN

Not cheapest nor highest, but best

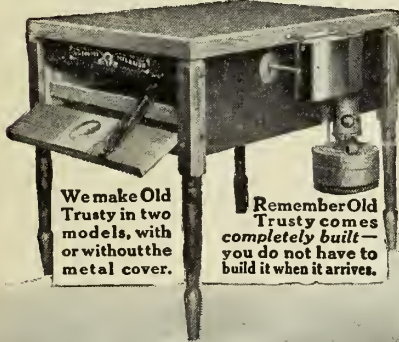
Byrn Mawr, Pa., Feb. 24, 1917
I bought a 100 egg OLD TRUSTY incubator in Dec. 1916. I find that it is not the cheapest nor the highest-priced incubator, but it is the best. I have tried several makes, but never had any kind that kept the temperature right on the mark regardless of the weather like the OLD TRUSTY. I run it out in an old shed and the outside temperature is never two days alike. I consider it a great pleasure to run OLD TRUSTY. Yours, HARRISON EDSALL.



Old Trusty Comes Ready for Business

We build Old Trusty complete here at the factory (the largest incubator and brooder factory in the world) and ship it ready for business the minute you take the crate off and screw the legs on. It's already crated and stored in our warehouse (either St. Joseph, Mo., or Clay Center) awaiting your name and address on the tag, so you see we can insure quick shipment. And remember—**We Pay the Freight or Express**—shipping the quickest and best way according to your instructions or the routing of our experts who have had years of experience in shipping Old Trustys. Write today for our new book and get our money-making plans for 1918 customers. Yours very truly, H. H. JOHNSON, "Incubator Man."

M. M. JOHNSON COMPANY
Clay Center, Nebraska



We make Old Trusty in two models, with or without the metal cover.

Remember Old Trusty comes completely built—you do not have to build it when it arrives.

Shells out the Chicks

Mail the Coupon—or a Postal

today for a copy of our new book of poultry "know how." Most folks say it is the most interesting incubator catalog and book of poultry raising ever put out, but I am willing for you to be the judge. It contains scores of pictures of big Old Trusty hatches and deals with profitable poultry raising. Send today. The coupon is for your convenience, but a postal card is just as good. Might as well write your name and address now and

Mail it Today

M. M. Johnson Company,
Clay Center, Neb.

Please send me your OLD TRUSTY BOOK.

Name.....

Address.....

Answer following questions if you care to. How many chickens do you

keep?.....Do your hens lay in fall and

winter?.....Have you used an incubator

and have you been successful?.....

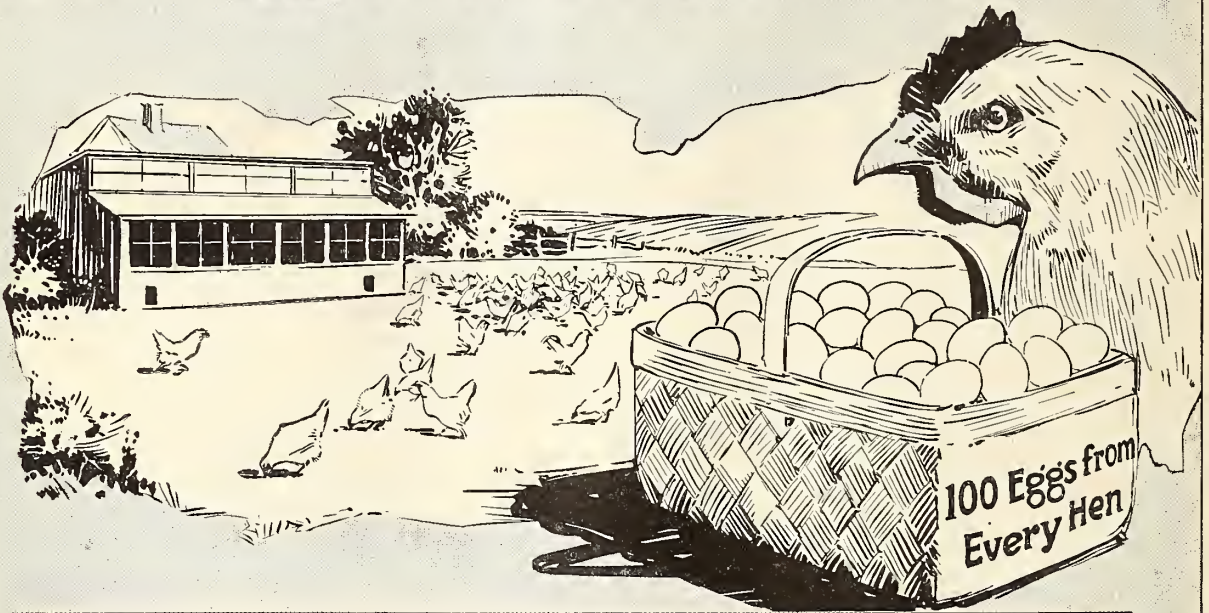
Do you live in town or on the farm?.....

Have you had any poultry troubles?.....

1915
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1918



100 Hens on Every Farm 100 Eggs from Every Hen



—Will Double the Supply of Poultry and Eggs in the United States and Increase the Amount of Available Food 1,500,000 Tons

ONE hundred hens and several hundred chickens on the average farm, rightly managed, can get nearly all their living in spring, summer and fall "from the land." In feeding themselves they will utilize all waste grain, and consume great quantities of weeds, weed seeds and destructive insects.

One hundred hens and a few hundred chicks can turn a lot of farm waste

into good food. Incidentally the poultry will leave on the land valuable fertilizer at the rate of two or three tons for every hundred birds.

One hundred hens on every farm, and one hundred eggs from every hen, mean more poultry and eggs for consumption on the farms, more to sell, more to substitute for red meat, and more power to our arms and the allies.

For Information How to Help Your Farm and Help the Nation by Raising More Poultry,

**Write Your State Agricultural College, or
U. S. Department of Agriculture**

WASHINGTON, D. C.

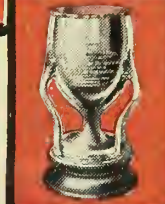
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140-Egg Size

Freight Prepaid
East of Rockies
Satisfaction Guaranteed
I Ship Quick from Buffalo,
Kansas City, Minneapolis or Racine

Perfect Hatches Mean More This Season Than Ever Before



"Tyco's" Cup

This will be the biggest poultry season in history — the demand will be enormous. The best hatcher made is the only one that can properly meet this demand, because biggest hatches will be necessary. — Bigger profits will be made than ever before. Are you going to get your share? You cannot afford to let this opportunity, to help your country and make big money, pass. Read what Federal Food Administrator, Herbert Hoover, has to say:

Hoover's Message

We are short of red meat. Our soldiers and our allies require more than ever before. We are advocating in every household, every restaurant and hotel in the country the substitution of poultry for red meat. Increased production of poultry can be effected much faster than beef, pork or mutton. We must have a quick response. There is a great waste of poultry feeds from every household and every farm. It requires little labor. Cannot the poultry raisers of the country help us by providing the increased supply we need?—Herbert Hoover, Fed. Food Admr.



**Jim Rohan
Pres.**

Think what a demand this will create for poultry and eggs. Now, I want to go into partnership with every man, woman, boy and girl who can hear the call in Hoover's message. I want to prove to you that I can help you

help Uncle Sam win the war and make a big profit for yourself. You need no experience — a small plot of ground is enough—and it will pay you a big income. Write me today and I will send you

My New Big Poultry Book **Free "Hatching Facts"**

The most valuable book on chicken raising published—filled with facts, proofs, and information, and hundreds of letters and photographs from users of my Hatching Outfits, which tell, in their own words, of their remarkable success.—(Over 650,000 satisfied users) It also tells about my

\$8.95 Champion 140-Egg **Belle City Incubator**

The incubator that regulates and ventilates itself—equipped with patented thermometer holder—round cornered, non-leakable, copper tank—big safety lamp and deep chick nursery. The incubator with the Fibre Board double-walled construction, that has led the field for over 12 years. The choice of America's most successful chicken raisers—the kind used by Uncle Sam and leading Agricultural Colleges. You cannot get a better hatcher at any price. When ordered with my \$5.25 World Famous Belle City 140-Chick Brooder (illustrated below)

the only double-walled, hot-water brooder made, guaranteed to raise the healthiest chicks—both cost only \$12.95. Remember, I Prepay All Freight East of the Rockies and allow it that far if you live beyond. Satisfaction Guaranteed—1, 2, 3 Months' Home Test. You can order from this advertisement and feel perfectly safe—or write today for my Free Catalog, "Hatching Facts"—you will find it the best guide to success in poultry raising. With it comes my Partnership Plan and full particulars of my

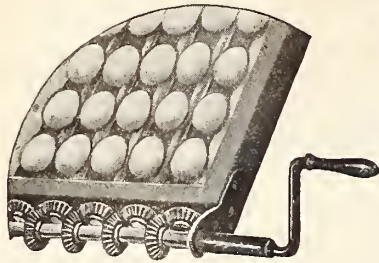
\$1000 Cash Prizes

to those who purchase early. Conditions easy to get a big share the first season you own a Champion Belle City Hatching Outfit. With this outfit and my guide book for setting up and operating you are sure of success. Get your order in early—don't delay—the demand is great. Mr. Hoover says: "Act quick!" Write me today and get full particulars. Jim Rohan, Pres.

Belle City Incubator Co.

Box 27, Racine, Wis.





A Turn of Crank Turns Every Egg

Roller Tray Incubator

Endorsed by
Most Responsible Authorities

60-100-150 and
200 Egg Sizes

Superior Construction. Write for Catalog and Testimonials

ROLLER TRAY INCUBATOR CO.

Grant Avenue, Nutley, New Jersey



CAUTION: Any Bone Cutter claiming to be MANN'S without F. W. MANN CO. cast on its surface, is an imitation. The genuine MANN'S is made only in Milford.



Make Hens Lay

WE publish a book which gives the secret that all fowl raisers are most interested in—the secret of making hens lay when eggs are high as well as when they're cheap. The quick and easy way. Goes into the why of the subject. Makes you master of the poultry and egg business. Opens up a new line of thought on the best feed for poultry—the ideal egg-producing food, viz., ground raw bones with the meat and gristle that adheres to them.

MANN'S LATEST MODEL BONE CUTTER

prepares raw, green bone and gristle into a fine mash, four times richer in protein (the egg-making, body-building element) than corn. It supplies the animal food that chickens must have. Easily digested. Saves grain feed. Fowls relish it. Makes them grow, keeps them well, makes hens lay.

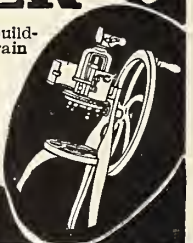
We Sell This Machine On Ten Days' Trial

No money down. Try it and note the improvement in the egg yield. If you like it, then buy it. If not, send it back at our expense. Send today for the book and read it. It is free. It will make you want the machine and the machine will add greatly to your profits.

F. W. MANN COMPANY

Box 56, MILFORD, MASS.

A FREE
BOOK
FOR YOU
ON
MAKING
HENS LAY



Secrets of Expert Exhibitors and Easy Lessons in Judging

By FRANK HECK

A BOOK that is new in character and the most valuable and interesting production ever published for breeders of exhibition fowls. No other book or similar publication comes within gunshot of it. It is in a class by itself. The time has gone by when a breeder can pick up birds right out of the yards and win with them without special preparation. This is true even in the smaller shows. There are always at least a few hustling, enterprising breeders in nearly every locality who are keenly alive to the financial profit and the honors accruing from winning over all competitors. These breeders use all legitimate methods for putting their birds in show condition.

Faking and Legitimate Preparation Both Laid Bare

Faking is certainly wrong and it should not be practiced, but even in legitimate show preparation what chance have you to win over one or more honest competitors who may have a copy of this book and thereby possess the knowledge which enables them to fix up their birds in scores of ways that are not known to you. Consider also the immense advantage you would have in being able to detect such forms of faking as can be discovered in cases where there may possibly be a dishonest exhibitor in the class.

All the methods, drugs, chemicals and various modes of preparing birds for the show room are fully explained

You need the book to protect yourself against the dishonest fakir and you need it to put yourself on an equal footing with your honest competitors. It will save you dollars in useless entry fees, and it will show you how to win the coveted prizes and honors which your rivals would otherwise receive. The price of the book is..... **\$2.00** and it is worth the price. Have you ever bought a poultry book on general topics or disclosing some system or so-called secrets, and upon receipt of it had your expectations drop with a dull thud of disappointment? Well! this is not that kind of a book. **Don't put off sending your order. You need the book now. Address**

AMERICAN POULTRY JOURNAL PUB. CO., 542 South Dearborn Street, CHICAGO, ILLINOIS

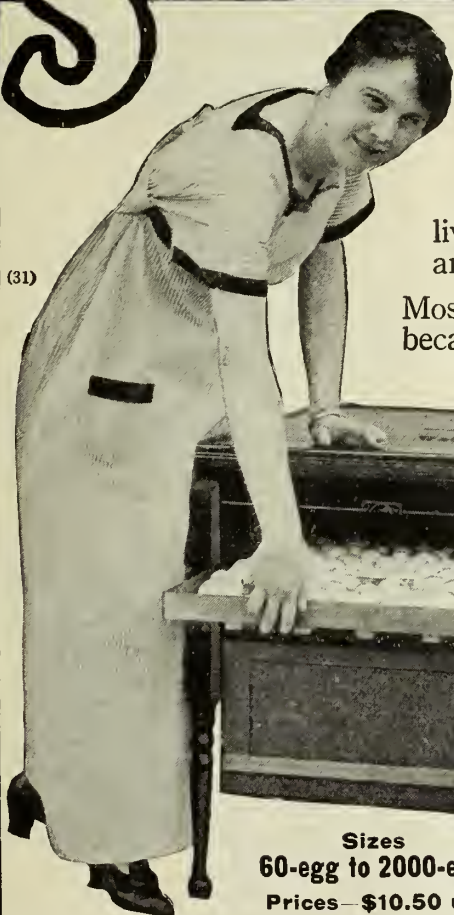
Stop Hatching Weak Chicks

With Cheap Incubators

Remember it is not how many you hatch that counts, but how many you raise.

Chicks that hatch out weak and wobbly, and live but a few days, mean nothing to you except trouble and loss. They make one sick of the poultry business.

Most of the chicks you lose in the first two weeks die because they did not hatch out with enough vitality or strength for a good start.



(31)

Sizes
60-egg to 2000-egg
Prices—\$10.50 up.

QUEEN Incubators

HATCH CHICKS that LIVE and GROW

The Queen is accurately regulated—taking care of a temperature variation of 70 degrees without danger.

It is built of genuine California Redwood—very scarce in these days of imitation and cheap substitution.

Redwood **does not absorb the odor** from the hatching eggs. Cheaper woods, and pasteboard lining in iron and tin machines, **retain the odors**, to weaken and kill the hatching chicks.

Don't Buy ANY Incubator Until You Check It Up with the Queen

Some Machines are made of galvanized iron, or tin, or cardboard, or other cheap material that gets hot or cold quickly, absorbs odors, moisture, etc., and is liable to kill or weaken the chicks after the first few hatches.

The Queen is made of California Redwood, the best material ever discovered for incubators. Of course it costs more.

Some Machines have only one real wall and consequently are not properly insulated.

The Queen has double Redwood walls, the space between being filled with corrugated strawboard, making perfect insulation.

Some Machines regulate only when temperature is uniform and everything runs right.

The Queen Regulator is a wonder. It will take care of a heat variation of 70 degrees.

Start Your Chicks with a Queen Constitution

and they will make money for you. The Queen is not a cheap incubator, compared with many of the cheaply constructed machines on the market, but it is **cheap in the long run**. It will be turning out high percentage hatches years after the cheap machines have been junked. Sold by dealers. Catalog sent free on request.

QUEEN INCUBATOR CO., Lincoln, Nebraska

Not a Single Complaint

Queen Incubator Co., Lincoln, Neb. -

Gentlemen:—During the many years you have been advertising Queen Incubators in the columns of American Poultry Journal, we have not, to the best of our recollection, received a single complaint from one of your customers. *American Poultry Journal*.

Not Even an Expression of Dissatisfaction

Western Poultry Journal, Cedar Rapids, Ia., writes: "In all these years that the Queen Incubator has been advertised in Western Poultry Journal, we have as yet to receive the first expression of dissatisfaction from any of our subscribers. We think this is a splendid recommendation, not only for promptness and business ability, but for the quality of Queen Incubators."

The Best—East or West

John Bowen of the Colorado Poultry Fanciers Association, wrote: "Last season the writer installed a Queen as an experiment, and found that it hatched 18 per cent better than Eastern made machines and 11 per cent better than any machine built in the West. All of the machines were run under exactly the same conditions."

Let Us Surprise You with Our Low Prices on Our Standard Hot Water Incubators



J. S. GILCREST
President
Life Member American
Poultry Association

You know what beef, pork and mutton costs. The world is crying for more poultry and we must help, you and I. I wish I could talk to every reader personally and tell you in 5 minutes' time just what good profits you can make with a "Successful" and show you how much you can do for yourself as well as others.

I want to put in my 25 years' experience and a "Successful" right in your hands. You cannot go

wrong and you should make big profits this year because it is the big year for the poultry raisers. Send for our catalog and let me show you the difference between just raising poultry and making a big income with chickens.

Write for Catalog—Mail Coupon Below— or a Postal Will Do

And learn how I have been working for you. My part is holding down the price of the "Successful," cutting out frills, premiums, putting into your hands the best hatcher ever made at the lowest possible price. Your part is making the hatches and you can make them with bigger profits than ever this year, and you'll see that from my catalog. Write today and get my 1918 offer on the 25-year famous

"SUCCESSFUL"

The Best of Six Makes

Ithaca, Mich., May 13th, 1916

I have six incubators in operation and all of different makes, but I like the "Successful" the best of all. It is so easy to run, and the chickens hatched in your machine seem to be much stronger. Your ventilation system has the right principle.

Mrs. Daniel Buerge

In Use Over Fifteen Years

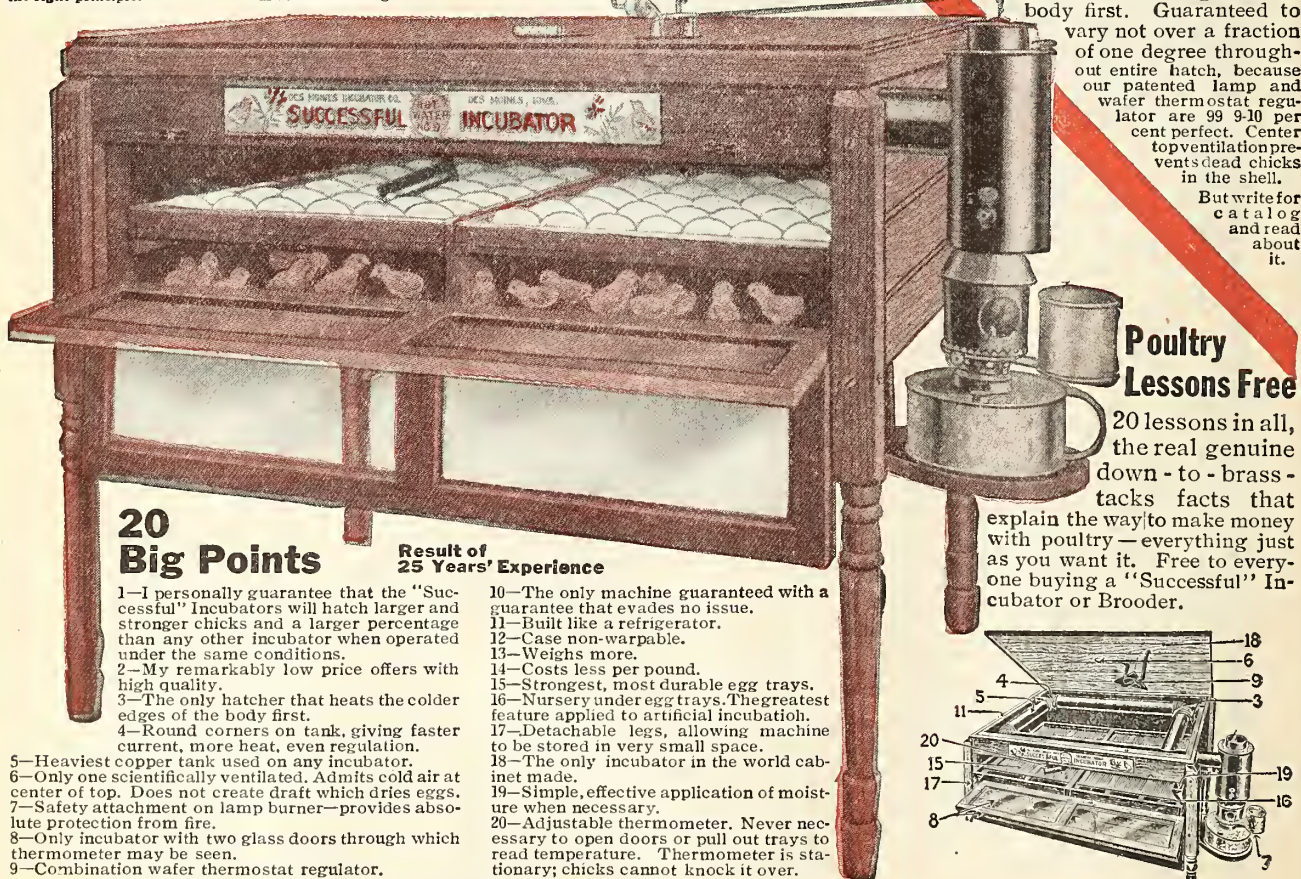
Fennville, Mich. I have used one of your Successful incubators for over fifteen years and it works fine yet. I bought my first machine of you in 1897. Enclosed find order for another No. 9 Successful, 240-egg capacity.

Yours very truly, Mrs. M. A. Green, R. R. No. 2.

Read the list of 20 big points. Here is the only incubator in the world that's really cabinet made so far as I know.

The only hatcher that heats around colder edges of the body first. Guaranteed to vary not over a fraction of one degree throughout entire hatch, because our patented lamp and wafer thermostat regulator are 99.9-10 per cent perfect. Center top ventilation prevents dead chicks in the shell.

But write for catalog and read about it.



Poultry Lessons Free

20 lessons in all, the real genuine down-to-brass-tacks facts that explain the way to make money with poultry—everything just as you want it. Free to everyone buying a "Successful" Incubator or Brooder.

20 Big Points

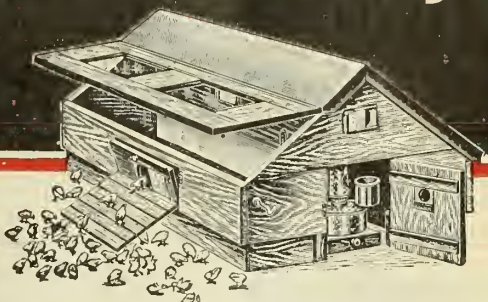
- 1—I personally guarantee that the "Successful" incubators will hatch larger and stronger chicks and a larger percentage than any other incubator when operated under the same conditions.
- 2—My remarkably low price offers with high quality.
- 3—The only hatcher that heats the colder edges of the body first.
- 4—Round corners on tank, giving faster current, more heat, even regulation.
- 5—Heaviest copper tank used on any incubator.
- 6—Only one scientifically ventilated. Admits cold air at center of top. Does not create draft which dries eggs.
- 7—Safety attachment on lamp burner—provides absolute protection from fire.
- 8—Only incubator with two glass doors through which thermometer may be seen.
- 9—Combination wafer thermostat regulator.

Result of 25 Years' Experience

- 10—The only machine guaranteed with a guarantee that evades no issue.
- 11—Built like a refrigerator.
- 12—Case non-warpable.
- 13—Weights more.
- 14—Costs less per pound.
- 15—Strongest, most durable egg trays.
- 16—Nursery under egg trays. The greatest feature applied to artificial incubation.
- 17—Detachable legs, allowing machine to be stored in very small space.
- 18—The only incubator in the world cabinet made.
- 19—Simple, effective application of moisture when necessary.
- 20—Adjustable thermometer. Never necessary to open doors or pull out trays to read temperature. Thermometer is stationary; chicks cannot knock it over.

If interested in hatching in big numbers, state hatching capacity desired and write for special proposition

Raise Your Chicks Into Money-making Birds with a "Successful" Brooder



Save your chicks—save every one—don't lose valuable chicks when the world is crying for poultry, when prices are higher than ever before in history, when each chick is worth more than ever before. The "Successful" Brooder means safety, assured profits because it pays for itself many times in the chicks it saves. Don't take chances on a cheap box or cheap brooder to raise chicks this year. Science and my 25 years of experience built the "Successful" and I know what it will mean to you. I know I have the brooder you need, I know chicks must have a lot of sunshine, yet be warm and comfy while they are growing. They must be protected from wind and draughts, be on a good warm floor.

A "Successful" Brooder answers this need—it will pull the chicks through and my big book, sent free on request, tells you why the "Successful" Brooder pays for itself in saving chicks.

INCUBATORS AND BROODERS

GUARANTEE—

The Strongest, Most Liberal Ever Offered On An Incubator

So strong is my confidence in these machines that I offer you the "Successful" Incubators and Brooders under the following most liberal guarantee. This is the strongest guarantee under which any machine of this kind has ever been sold, viz: You may try the machine ordered, two, three or four times and, if after that test you are not perfectly convinced our machine is as represented or entirely satisfactory, you have the privilege of returning it, on request of shipping instructions, and we will cheerfully refund the money.

The Greatest Incubator and Brooder Feat Ever Recorded

Lancaster, Mo., Sept. 22, 1917
Gentlemen: The 30 Successful Incubators I have now in operation have produced over 30,000 chicks for me the past season. These incubators have produced excellent hatches, in some cases as high as 95% of the chicks not hatched. I have actually raised better than 95% of the early chicks I put in Successful Brooders. This is certainly a most remarkable result, and speaks volumes for your machines.
K. I. Miller.



Write for Big FREE Book Today

Just sign your name or write me on a post card. Big poultry catalog is free. Booklet on Feeding of Chicks, etc., 10 cents. Remember, here is a machine that has stood the test of 25 years and has helped to make many of the biggest money makers in the poultry business. I offer with it no premiums, no sensational claims, no fancy frills, nothing but a pure quality hatcher or brooder at the lowest price possible. That, Reader, is what gets the chicks and that's what I believe you are interested in. **Send for Our Catalog.**

Use Coupon or a Post Card Will Do

Send 10 cents for Booklet

J. S. GILCREST, President and General Manager
DES MOINES INCUBATOR CO.
1 Second St., Des Moines, Iowa

DES MOINES INCUBATOR CO.
1 Second St., Des Moines, Iowa
Please send me catalog and your 1918 offer.
Name _____
Address _____
City _____ State _____

"Proper Care and Feeding of Chicks, Ducks and Turkeys."

Owen Farms Sale of Fine Breeders For January and February

Have made inventory and am offering you carefully mated pens of choice line-bred breeders in all my vari-

eties at the lowest prices similar birds have ever sold for. Line-bred birds from Owen Farms' best stock that have been bred right and are properly **mated to produce fine chicks for you.**



Buff Orpington
1st Madison Square Garden



White Wyandotte
1st Chicago Coliseum



S. C. R. I. Red
1st Madison Square Garden

OWEN FARMS

**Buff and White Orpingtons
White Plymouth Rocks
S. C. White Leghorns
White Wyandottes
S. C. R. I. Reds**

are the Standard of excellence all breeders strive to equal.

Have culled very hard this year. Marketed a larger percentage than usual and sold many birds in large lots for utility purposes. This present offer will move these birds quickly. You can order directly from this ad with absolute assurance of satisfaction, as my birds are all sold on approval, subject to return after a 48-hour rest and the full return of your money if you are not absolutely satisfied.

Special Offer on Mated Pens

100 carefully mated pens at \$25, \$35, \$50 and \$75 per pen. Headed by cock or cockerel and containing hens or pullets as you wish.
Single males at \$10, \$15, \$25 and \$35 each.
Single females at \$5, \$7.50, \$10 and \$15 each.
Trios and larger pens at proportionate rates.

When sending your order be sure to state the variety you wish. Your money will be promptly returned should all birds in your variety be sold.



White Plymouth Rock
1st Madison Square Garden



White Leghorn
1st Madison Square Garden



White Orpington
1st Madison Square Garden

417 Owen Farms birds have won the Blue at Madison Square Garden, New York. **Thousands** of Owen Farms birds have won the Blue all over the continent. In buying these fine breeding birds you are securing line-bred descendants of these winners.

Act quickly and you will have a grand foundation pen at very much less than real value. Remember, your success means mine. Mr. Davey and the writer will do our utmost to insure your success.

OWEN FARMS Office at 107 William St., Vineyard Haven, Mass.
Maurice F. Delano, Proprietor Frank H. Davey, Superintendent

AMERICAN POULTRY JOURNAL

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879.

Volume 49

Chicago, Ill., January, 1918

No. 1

The Big Drive to Increase Production

Uncle Sam Wants "Every Poultry Keeper to Produce All the Poultry and Eggs He Can Raise at a Profit."

By Prince T. Woods, M. D.

DURING the coming year a "big drive" for increased production of poultry and eggs will be conducted by the United States Department of Agriculture and the State Agricultural Colleges, with the co-operation of the press, and thru placing many extension poultry husbandmen in the field to give advice and instruction, as well as promote interest in raising poultry.

The propaganda as set forth in advertisements and bulletins calls for: "More back-yard flocks. Larger general farm flocks. Closer selection of Standard poultry for meat and eggs. Not every poultry keeper can greatly increase production from his own flock, but by interesting and aiding others everyone indirectly can add more than double his usual contribution to supplies of poultry and eggs the coming year. The nation expects every poultry keeper to produce *all the poultry and eggs he can raise at a profit*, and then do all in his power to persuade his neighbors to keep poultry and to *help them to make their poultry pay*."

An article by Clarence Dubose, of the United States Department of Agriculture, contains the following:

"The humble hen can play a prominent part in preventing the progress of the Prussian peril. The quickest and cheapest way of adding to our meat supplies is to increase poultry and egg production. To double this production next year will give us 6,500,000,000 pounds of meat food in the form of poultry and eggs. By having this amount of poultry food for domestic consumption we will eat less pork and beef and can send almost that many pounds of meat to Europe to feed our soldiers, the armies of the Allies, and the destitute civilians. "We cannot increase any of the meat animals as rapidly or economically as poultry.

"The United States Department of Agriculture wishes every farmer to understand the importance of doubling our poultry production next year. It is a vital part of the general food production campaign, and that campaign must be carried out in all its details to insure victory in this war. The chief poultry increase must be made on the general farms of the country—on *every* farm in the country. It must be made as a by-product of general farming. The farmer must get his flock to such size, in proportion to his farm, that all the waste and scraps and land available for chickens to run on will be used and the fowls kept up from these sources and a reasonable amount of other feed. *The Department does not suggest that extensive poultry enterprises be taken up by the general farmer. In fact, it warns against that very thing.* But it urges every farmer to keep just as many hens and produce just as many chickens and eggs as he can economically and as a by-product of his general farming.

"Most of the attention required by farm flocks can be given by the women and children of the household. The question of labor is not a puzzling and uncertain problem in the poultry production program. If the farmer increases his flock to a size suitable to fit in as a by-product of his general farming he will find that it will not require extra help.

"Because of these facts—that poultry, as a by-product of general farming, finds much of its feed in waste and requires

no extra labor—the farmer will produce meat food at the very lowest cost. Home consumption of this will cut down his living expenses and enable him to sell more of the animal meat he produces. He will be making more money himself and at the same time he will be helping Uncle Sam win the biggest war the world has ever known."

No one will question the need of greatly increased production of poultry and eggs during the coming 1918 season. Some, however, may well raise the question as to how this increase is to be brought about and at the same time insure a "fair and just profit" to the producer. With the 1917 experience still fresh in mind, many poultry keepers will say: "I would like to increase production, but how can I do it unless assured that I will not again be the victim of grain speculators and also of price-smashing attacks on poultry produce made by both press and local officials?"

As one correspondent points out, there is great need of "educating the consumer" to pay fair and just prices. There is great need of enlightening newspaper editors and to educate them to give the poultry keepers a square deal. The value of eggs and poultry meat requires more publicity. It should be shown that prices to date for poultry produce have been cheap as compared with other foods; that at no time have the prices of poultry and eggs been maintained sufficiently high *thruout the whole year* to insure a "fair and just profit" to producers, since the war started grain, feed and supply prices skyward. If poultry keepers are shown a reasonably certain opportunity to make "fair and just profits" during 1918, there will be no difficulty in securing an ample increase in production and an abundance of poultry recruits in the ranks of beginners and back-lotters.

While it is true that we must look to the farms for our greatest increase in the production of poultry, particularly to the farms in grain-growing sections, and that on such farms during the summer season poultry can be kept and raised at lower cost than elsewhere, it is hardly fair and just to put the added work up to the already overburdened women of the farm or the children, when we already have overmuch child labor on farms. No greater demands should be made upon the farm wife and mother, or her children, than upon other women and children. As another of our readers writes us, "the overworked farm woman, or the growing child upon the farm, should not be called upon to make undue sacrifices in order to produce food to sell at less than production costs to many pampered urban dwellers, who lead a parasitic life." The production of poultry on farms can be increased, should be increased, can be made a pleasurable part of the outdoor work of boys and girls on farms, but it should not be produced and consumed *at their expense*.

We are heartily in favor of boys' and girls' poultry clubs. Such clubs, properly conducted, can do a great deal to increase interest in poultry and to increase production. But in such work all instructors should be cautioned to avoid infla-



tion of the poultry business by stories of big profits, or thru misleading figures representing alleged "profits" when in reality only return above feed cost is meant. Teach the boys and girls common-sense methods of cost accounting in keeping the records of their flocks. Have them take account of all overhead costs, labor costs at a fair price, as well as feed and supply costs. Make the boys' and girls' poultry bookkeeping mean something. Make their poultry work a real business conducted in a businesslike manner. Teach them to figure costs just as any efficient cost accountant in a bakery or manufacturing business would do the work. We are well aware that probably not more than a very small percentage of instructors, or Federal and State poultry agents, know how to go about figuring costs, but we firmly believe that it is one of the first things they should learn. Why not give them a good substantial short course in cost accounting before they take the field?

In November we wrote Ralph Searle, of the International Poultry Federation, in part as follows:

"The most important thing is to avoid the mistakes of the past few years. There has been a tendency on the part of some state stations, and even on the part of Federal poultry department, to work for increased production of poultry and eggs by inflating the business. This has been a serious mistake and has worked untold harm. Tales of big profits told the public are certain to hurt the business and to react against poultrymen. Here in the East we are suffering severely from effects of inflation."

In his reply Mr. Searle said:

"The closing paragraph of your letter, with reference to the immeasurable damage that has been done to the poultry industry by inflation and by a species of misrepresentation on the part of some as to the possibilities of the poultry business, ought to be framed in the home of every poultryman. We have got to get down to bedrock and use the brand of wisdom ordinarily designated as 'horse-sense' before the poultry industry will come into its own."

At the present writing there are still vague promises of grain prices "40 percent to 50 percent lower" by the first or fifteenth of January, tho how this is to come about does not appear. In New York, recently, Mr. Hoover told his audience that "the cost of corn is dropping every day," altho here in the East corn has been steadily climbing and made a new high price record for corn, both new and old, on the very day that

the speech was delivered. In fact, grain and feed prices had been stiffening and climbing for some weeks, while transportation conditions continued to go from bad to worse; it taking in some instances nearly four months to get a carload of grain from Chicago to point of destination in Massachusetts.

The President's message to Congress indicates that the Food Administration will soon have greater powers for price-fixing; just what these will be or how extensive in scope can only be known when the results are announced. History goes to prove that price-fixing is seldom an unmixed blessing and that it often has disastrous effects. Thus far price-fixing has seemed to interfere with both production and distribution rather than give aid to consumers. In the present uncertainty we can only "cut our garment to our cloth" and make the best of it.

Greater poultry and egg production is urged and needed; therefore everyone of us should keep and raise as much poultry as he can afford to keep properly. Or, as Uncle Sam says, "The nation expects every poultry keeper to produce all the poultry and eggs he can raise at a profit." If you cannot raise poultry products at a profit you are not expected to do the work. If 1917 conditions should continue, that would mean a mighty short crop of poultry and poultry products in 1918. We would not wish to see any such cutting down of poultry flocks, and therefore we urge that, whether conditions mend or not, each person able to keep or raise poultry should at least have a family flock, and as many more fowls and chickens, or ducks and geese, as he can afford to maintain in a manner that will insure their being productive. If the flock does nothing more, it will at least supply home-grown food at first cost, and thereby conserve the national supply of other foods that must be shipped overseas.

During a part of April and thru the spring and summer until well after fall harvest, most farms, where a few acres of range are available, can carry fair-sized flocks of growing chicks at small expense as compared with the man who has restricted range or small yard room, but it must not be assumed that they can be grown without grain and mash. While farm flocks ranging as scavengers will pick up a good



deal of feed that would otherwise be wasted, they must be well fed if they are expected to be worth raising. Spring chicks can be hatched and reared under hens with the least expenditure for equipment and labor. Early chicks call for a greater expenditure in incubators, brooders, or other equipment, and more attention to feeds and feeding until the range affords supplementary food of sufficient quantity and quality to be worth considering. Much time can be saved by the purchase of baby chicks to be grown under hens or in inexpensive brooders. The Government warns against "extensive poultry enterprises," while at the same time urging increased production, raising all that can be raised "at a profit." That warning is worth heeding. Keep the farm poultry operations within the bounds of a "farm by-product," keeping only as many fowls and raising as many chicks as can be well kept and well fed within the means of the owner and without imposing hardship on the family. It may be well even to forget the "at a profit" part of the transaction for the present, and make the slogan "produce all the poultry and eggs that can be produced without loss."

The back-lotter can play an important part in "poultry keeping as a war measure" and he can get a lot of pleasure out of the work, as well as a supply of the best sort of wholesome food for the family. An inexpensive portable house and a roll or two of wire netting will convert almost any back yard into a war time poultry plant. Anyone skillful with a saw and hammer can soon convert a few big packing boxes and a roll or so of roofing into a very good and inexpensive poultry house. As the back-yard venture is to be largely for pleasure, as well as family food supply, it will be best to take up some good popular Standardbred variety of fowl. Standardbreds are more beautiful and satisfactory to look at and work with than mongrels, they cost no more to keep, are generally more productive, with a more uniform product, and the first cost need not strain anyone's pocket-book overmuch.

Some back-lotters will have room to grow chickens, either home-hatched or purchased day-old, and can do the work with hens or inexpensive brooders. Others will have to be content with adult stock. Everyone can and should help. Those who wish to mix their own rations can get along very comfortably with a scratch feed made of corn and oats, mixed bushel for bushel—with regular feeds of sprouted oats—and

a good dry mash made about as follows: cut clover or alfalfa, 5 pounds; wheat bran, white middlings, corn meal, ground oats and gluten feed, 10 pounds each; beef scraps and fish meal, 5 pounds of each. If there should be any quantity of table scraps—which there should not in these war times—these can be mixed with the mash and the whole fed as a moist mash, or small quantities of table scraps may be fed daily as they are removed from the table. Don't try to "swill feed" poultry, it is poor practice and the results are unsatisfactory. Most back-lotters will find it more convenient to use one of the many good ready-mixed scratch grains and mash mixtures offered by reliable dealers.

Do not attempt to maintain the farm flock or the back yard flock on scratch grain alone, as many poultry keepers do, it is too expensive. Laying hens or growing chicks should have about an equal weight of both scratch grain and mash mixture for best results and this is the most economical method of feeding. "Quantity of Feed Required by Poultry" was discussed in December issue of AMERICAN POULTRY JOURNAL in an article by that name.

Almost any back yard can be made to accommodate very comfortably a family flock of from 15 to 30 layers. The first cost of these birds need not be great. The cost of maintaining a back-yard flock need not break anybody's bank. The returns in eggs and meat, as well as pleasure from having a useful hobby, will satisfy the back-lotter. It is not like undertaking a commercial egg farm or market poultry plant that must be made to pay a fair profit above all expenses in order to keep the owner in business. Small family flocks are almost always more productive than large commercial flocks. Keep a back-yard flock as a war measure and help win the war. *Don't expect someone else to grow all your food, grow some for yourself.*

Do your bit in helping to increase poultry production in 1918. It may help prevent a famine. It will certainly give you something worth while and helpful to do. It will help supply the home with wholesome food. We ask you to produce all you can without loss. Just bear in mind that Uncle Sam's Department of Agriculture does not ask quite that much when it says: "*The nation expects every poultry keeper to produce all the poultry and eggs he can raise at a profit, and then do all in his power to persuade his neighbors to keep poultry and to help them to make their poultry pay.*"

Direct Sales from Producer to Consumer

Food Production Must Be Increased and Food Producer Must Receive First Consideration. First Prize Article American Poultry Journal Monthly Contest.

By Bertha M. Tyson, Rising Sun, Maryland

EVERY day we read in the city dailies of the necessity of the producer and consumer getting together in order to help lower the cost of living. Much that is said on this subject goes wide of the mark, since it is usually the consumer's point of view, and in that the producer gets small consideration.

To assist in straightening out the present-day food problems, we must first go to the root of the matter. Until the producers of food are properly paid for the great work which they annually perform, no other work in the world can be properly regulated or adjusted, for food production is the oldest, most honorable and most important work in the world—the one work upon which all else depends. Every producer of food, no matter in how small a quantity, every consumer of food, and especially every individual who handles or distributes food should be vitally interested in this subject. Upon it depends not alone the future of our own country, but of the entire world. Food production must be increased and carried to its highest point of efficiency. To accomplish this the food producer must receive first consideration. At this time of food shortage, those who are able to economically produce food, *those who have demonstrated their ability in the science of food production should be given every encouragement by the whole people.* Attacks on the farmers and food producers by ill-advised newspaper writers, magazine editors and

public speakers should be considered treasonable at this time and dealt with accordingly. The circulation of bulletins, circulars and printed addresses by various officials, in which production costs are tabulated *in part* and given as production costs should everywhere and by all people be discouraged. An honest treatise on food production costs will leave out no item of the expense necessary in the production of that food. The cost will, of course, differ in widely separated localities, but transportation usually evens up the matter in the ultimate cost to the consumer.

The middleman is a necessity in handling most kinds of food, but there is no reason why the producer of poultry products and the consumer should not get together and deal direct. The proposition rests almost wholly with the consumer. If he expects to get good food for next to nothing just because he is dealing with the producer, if he expects credit or fails to pay for value received, it is a waste of time and money to attempt to deal with him.

For a number of years I have been dealing direct with consumers in Philadelphia and New York, sending both dressed poultry and eggs by parcel post, and have found the plan a good one. In each of these cities I deal thru a friend who receives the shipments, sells the goods in his own locality, collecting cash for same. For instance, a dozen families in an apartment house or city neighborhood each

decide to have a roasting chicken for Sunday dinner. The distributor sends a card on Monday or Tuesday that the chickens are wanted on Saturday morning. The birds are then dressed and thoroly chilled Friday morning and shipped that afternoon to New York or Philadelphia, as the case might be, arriving at the distributor's Saturday morning. In this way I have realized double what I would have gotten thru the regular buyers and collectors. I have had many letters from customers in these cities, saying they had never before known the taste of a freshly killed, properly dressed chicken or fowl. When it becomes necessary to notify them that my stock is exhausted and that I will have to discontinue shipping for the season, they have with one accord written to be sure to let them know when I will again be able to supply them with fresh killed poultry. I have sold turkeys, guineas, ducks and chickens of various ages, following this plan, and found it far preferable to any which I have heretofore tried.

The parcel post charge is about half of that of express, if shipped in quantity, but it does not pay to ship one fowl alone or one dozen of eggs. Three dozen eggs should be the minimum for a shipment. I have seldom shipped less than a 12-dozen case at one time, tho in some cases three to five dozen were shipped to special customers.

Poultry products of all kinds must, of course, sell considerably higher this year than ever before if the consumer wishes to continue to have poultry and eggs on his table. The statements by some officials that farm poultry costs no more to produce than formerly, and that grain farmers are coining money on their poultry, is one that should be flatly refuted.

I have lived on large grain farms practically all my life, farms where goodly fields of wheat, corn, oats, rye, buckwheat, millet, clover and alfalfa are grown in quantity. Unless we can get equal value for our poultry products, to produce which we must freely feed these grains, the farmer cannot continue to raise poultry for market, since the grain brings larger returns with a great curtailment of labor. Farm women have plenty of work to do and are today the most efficient food conservers in the Nation. They must not be expected to raise poultry that women with few cares, surrounded by all manner of conveniences and luxuries, may be supplied with low cost foodstuffs. The situation is one that requires *education of the consumer*. Every producer of foodstuffs should consider himself a committee of one in this great and important work of educating the consumers. The latter must be brought to understand that food does not fall from the heavens and the producer must have the privilege of stating the price for which it is to be sold.

In making direct sales to consumers of poultry products, there is one difficulty which is commonly met—that of payment in advance. When one has a central distributor and cash collector at time of purchase this is easily overcome. Otherwise it should be understood that cash must be sent with order. As it is impossible to foretell the exact weight of poultry until dressed, the best plan is for the purchaser to send a stated amount monthly for which he is to be supplied with a given number of pounds of poultry. In each shipment the weight and total price should be stated. In all cases, the distributor should be recompensed properly in cash or poultry products.

Raise Ducks for Quickly Grown Meat

Stick to Tried and True Formulas of Veteran Breeders. Well-Fed Ducklings Will Weigh Six Pounds in from Nine to Ten Weeks. Second Prize Article American Poultry Journal Monthly Contest. *By Mrs. H. E. Hoak, Ligonier, Ind.*

JUST now when we are admonished on every hand to produce and save more wheat and meat that the war may be won, we are all anxious to do our bit. The Department of Agriculture in a recent statement says that "the cheapest and quickest way of adding to our meat supply is to increase our poultry and egg products; to double this production next year (1918) will give us 6,500,000,000 pounds of food in the form of poultry and eggs."

In considering the possibilities of the poultry industry, the heavy egg production and quick maturing qualities of the duck should not be overlooked. Ducks will lay more eggs than chickens and will, if properly fed and handled, weigh six pounds each at nine to ten weeks of age.

Unlike chickens, ducks may be housed in very inexpensive houses. One Indiana woman who a few years ago sold over \$1,100 worth of ducks in a year, housed them in rail pens covered with straw at a cost of less than \$10 for the entire flock. However, their pens must be well bedded with clean dry straw, as a duck with cold feet will not lay. A well drained location should be chosen for duck pens, as low, damp ground soon becomes unsanitary.

After many years experience in raising ducks for both the utility and fancy trade, we favor the Buff Orpington. Properly fed, they weigh nearly as heavy as the Pekin, while in a laying contest conducted a few years ago in Australia they even surpassed the celebrated Indian Runners. In this contest of six varieties, nineteen pens competing, the Buff Orpingtons led all others by producing 1,326 eggs, averaging 32.5 ounces per dozen.

In duck raising, as in all other branches of the poultry industry, it is wisest to start with a small number of birds or eggs, learning as you proceed, rather than to plunge in to "make or break," which to the beginner usually means break. A large well matured drake mated to five to seven thrifty ducks will produce sixty to one hundred ducks, which is about as many as the small poultryman or farmer's wife can care for successfully.

Unless the brooding quarters are warm, ducks should not be hatched too early, as the loss from chilling and cramps will offset the gains from an early market.

A ration consisting of two parts bran, two parts middlings, three parts corn meal, two parts alfalfa meal, one part beef scrap, will be found an excellent feed for laying ducks, and if the grains can be mixed to a crumbly mass with skim milk instead of water, the beef scraps may be omitted with just as good results, at much less cost.



First prize S. C. Brown Leghorn cockerel, Chicago Coliseum, 1916. Owned by W. B. Warnock, Geneseo, Ill.

The eggs require four weeks to incubate, and while hens will, no doubt, hatch a larger percent, the incubator must be used if a large quantity is to be incubated. Another advantage in using the incubator is that the birds are all of one age. Otherwise the different ages must be placed in separate pens or the older ones will trample the younger, causing great loss. They require a lower temperature than chicken eggs, starting the eggs at 102 degrees and gradually increasing from week to week until it reaches 103 degrees the fourth week. The eggs require more moisture than hens' eggs and should be sprinkled daily with water at about 110 degrees. Indeed, it is said that at the Rankin duck ranch enough water was used that the moisture ran down inside the doors. However, too much moisture will result in a duck so large that it will smother in the shell. If the machine is of a type in which ventilation is furnished thru the heater, no airing of the eggs will be required. Treated as above, I was once able to produce 149 healthy ducks from 200 eggs that had been shipped over 200 miles.

In feeding young ducks, it is always safer to stick to the tried and true formulas of veteran breeders than to take any chances by substituting the grains at hand. Young ducks seldom thrive on whole grains of any kind, and leg weakness, the worst foe of successful duck raising, is sure to result from improperly balanced rations. The methods of feeding used by many of the Long Island duck breeders and probably originated by the late James Rankin, veteran duck breeder of America, are very exact, changes being made from week to week to suit varying ages and conditions. Mr. Rankin raised over 20,000 ducks annually for over twenty years, and it is doubtful if his methods could be improved upon.

We start the ducklings on stale bread soaked in milk, squeezed dry, sprinkled with fine sand, feeding every two hours the first two days what they will eat up clean in five minutes. The third day we start them on their regular ration of bran, middlings and corn meal, each one part, and ten percent beef scrap. If we have skim milk we substitute it for the scrap, mixing the feed to a crumbly mash. We also sprinkle the feed with sand, or later, fine gravel. Be sure their drinking pans are deep enough to allow the water to



Champion Rose Comb White Leghorn male at Greater Chicago Show, January, 1917. Owned by Mrs. H. C. Rogers, Riverside Farm, Oshkosh, Wis.



S. C. Brown Ancona, exhibited at the Chicago Coliseum Show, December, 1917, by the originator, I. H. Murray, 11337 Longwood Drive, Chicago, Ill.

cover their bills or they will smother from food entering the nostrils, also see that the pans are filled before feeding.

I know of no disease that attacks ducks other than chills (which develop cramps), head lice and leg weakness. If eggs are hatched under hens, it is safest to grease each little head very lightly when removing from the nest, with lard, to kill the large head lice, which are sure to prove fatal if let live. As to leg weakness, our experience last year warrants cautioning to be careful in feeding. Our flock consisted of only sixty ducks, and as the men were very busy with other farm work, rather than ask them to go to mill, we fed them a half-and-half mixture of ground wheat and corn which we had on hand. Also as we needed our skim milk badly for the pigs, it was omitted from the ration, water being used instead. The result was that at six weeks of age leg weakness developed that threatened to destroy the entire flock. It was necessary to act quickly if we were to save them. Nine of the worst affected ones were placed in an eight by ten foot pen that they might have very little chance to exercise. One of these was so weak that I had to poke the food down its neck with my finger. By the next feeding time he had so nearly recovered that I could not tell which one it was. The remainder of the flock was placed in a fifty-by-fifty-foot pen and fed one-third corn meal, two-thirds bran. As we are not near a poultry supply house where we can obtain meat meal, short of three or four days, I mixed the feed with skim milk. I was careful that the drinking pans were filled before each feed and provided plenty of coarse gravel for grit. The result was I lost only one duck after beginning treatment and four weeks later they were as thrifty a flock as I ever owned, fully feathered and a beautiful sight. This year I was careful to see that I had the feeds for a properly balanced ration before hatching my ducks.

It is probable that one hundred pounds of duck meat can be produced about as cheaply as one hundred pounds of pork and will sell for nearly twice as much. Good breeding ducks find ready sale at from \$2 to \$5 each. The country dweller cannot do better than raise a flock of ducks the coming season to supply meat and eggs for his home table.

Scientific Breeding of Barred Rocks

Temperamental Mating Conducive to Prolificacy. Gradual Drawing Together of the Sexes in Color a Delusion.

By Fred W. Proctor, North Brookfield, Mass.

I HAVE been reading the returns from the annual egg-laying contest which recently closed at Storrs, Connecticut, where a pen of Barred Plymouth Rocks takes first position with a record of 2,119 eggs; a hen of the same variety wins in the singles with 277 to her credit, and the entire string of Barred Rocks, 9 pens or 90 hens, lead in breed average, being 169.2 per hen. Of the eight other breeds or varieties contesting, only two pens (White Leghorns, with pen records of 2,090 and 2,022) reached the 2,000 mark.

The usual disproportionate number of pens of the several breeds represented in these contests renders them anything but conclusive as a test of laying capacity. But the fact that the nine pens of Barred Rocks contesting at Storrs were pitted against some five times their number of White Leghorns, affording the latter breed a five-fold opportunity to reach leading place, greatly augments the significance of this win over fowls so generally accredited to be the great egg machines.

In none of these contests has consideration been taken of



Imperial "Ringlet" Barred Rock pullet in first prize pen at Madison Square Garden, New York, 1917. Owned, bred and exhibited by E. B. Thompson, Amenia, N. Y.

comparative output at the season of highest value, a factor which would still further preponderate in the Barred Rock's favor; nor of the comparative value of flesh, both of these being essential for getting at the actual economic merits of the several breeds. Furthermore, the custom of feeding up to the full limit of the hen's appetite is not unfavorable to best results with Leghorns, but ill adapted to the heavier breeds. It is apparent that in these laying contests the Barred Rocks have been working under serious handicaps, and results, however gratifying, inadequately demonstrate economic worth.

For the Barred Rocks to win such prominence as layers challenges attention, and we are led to ask how it is that this breed can achieve laying victories over breeds whose specialty is eggs. As compared with other American breeds, the

Plymouth Rock displays no striking differences in physical makeup. And among the several Rock varieties, the Barred Rock differs mainly in point of color. It would naturally be anticipated that owing to the intricacies of the Barred plumage and necessity for close selection to maintain color, this breed would take subordinate rank as an egg producer. Let us see if we can discover in the peculiarities of the Barred plumage a plausible cause for supremacy in laying capacity.

I am a consistent believer that color of plumage, generally dismissed as a mere matter of fancy, is closely associated with economic worth, both as to quality of flesh and laying capacity. The Barred Rock excels in both these particulars. But without pausing to discuss this matter, let us pass on to the topic of Barred color in its relation to manner of mating. I propose to show that from the peculiarities of its plumage, and more particularly the natural laws of color peculiar to the breed and methods of mating essential to foster same, the Barred Rock surpasses other breeds in vigor. And vigor, we all know, is the prime foundation of prolific laying.

Let us digress at this point long enough to consider a law of nature pertaining to sex mating which calls for some elements of dissimilarity in parents as a prerequisite of vigorous offspring. This law is of universal application to all phases of life. In the vegetable kingdom are displayed various schemes to accomplish cross-fertilization in order to procure a union of dissimilar characters. In animal life the principle is exemplified in the enhanced attraction between and resultant mating of individuals differing in temperament. The color of skin and hair, and in the case of birds the color of plumage, are distinguishing marks of temperament. The careful observer of the habits of our domestic fowls will not fail to have noted this proclivity, in the determined efforts of a vigorous male to mate outside his domestic circle where the temptation offers in the form of plumage color dissimilar to his own.

The importance of observing this law of temperamental mating in our breeding, wherever practical, is manifest. With most colorations this is out of the question, as color conformance in the parents is essential to maintain color in the offspring. Our Barred Rocks stand by themselves in this respect, as their proper mating calls for a considerable difference in the proportion of pigmentary secretion for the two sexes, amounting to a ratio of one to three, as estimated for various matings, as presenting the respective proportions of color in the plumage of the male and female when mated for best results. This constitutes a true temperamental mating, calculated to promote vigor. It is needless to say that the well known vigor of the Barred Rock, adapting it to the most trying climates, bears out this point of view.

In practical breeding the temperamental principle gains in the frequent use of matings in which the range of color considerably exceeds that possessed by the male and female having identical parentage. The ideal Barred color comprises a degree of contrast—the "snappy" effect, professionally speaking, which proceeds from matings having extraordinary color variance as to the male and female. Confining reference to the light variety, this practice has led to a distinction as to the degree of color in matings which affects two types of families. First the regulation light exhibition female, having bars of equal width, and her breeding mate very much narrower as to dark bar. But as in practical breeding it was found that the more dependable dam of the exhibition female is several shades darker, such are conserved in special matings known as "foundation" stock, corresponding to the breeding females of the dark variety. Many of our winning light males, as well as pullets, are the product of these dark females; and the use of the very light male upon these "foundation" females favors the "snappy" effect. The breeder not wise to the use of two distinct matings for producing exhibition stock is technically known as a "kindergartner."

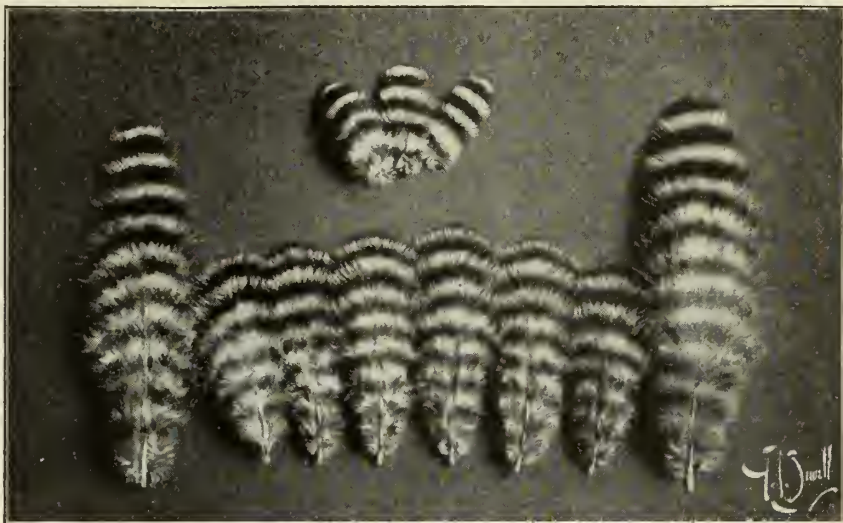
It has often been said in disparagement of the fancier's

work that breeding to feather impairs vigor. In the case of the Barred Rock, the fancier's discriminating pains to mate opposed traits of color should logically conserve vigor, and accomplished results bear out this presumption.

To denote this two-family system of breeding, I use the term gradational mating, which applies also to the plan of grading up the light variety with improved character of barring first worked out in the dark variety. This crossing of the dark variety carries the temperamental idea a step farther and supplies to the breed at the same time the invigorating influence of fresh blood, for the dark variety is conceded to be the fruit of outcrossing with one or more breeds. A type of barring narrower and more regular distinguishes the dark variety—characteristics which were engrafted upon the light; and the dark in turn found distinct advantage in improved contrast derived from the light. This work of the fancier's, done with the end of improved color in view, could not have been improved upon by breeders actuated by practical aims alone. The gradational method, impossible with breeds of other colors, serves to freshen the blood continuously. The effect of the mixing of the two varieties has been to bring a darker tendency of the light variety into vogue. The winning dark males are of a lighter tone of color, and with this lessened distinctness of color as an argument, we are asked to accept the dictum of a small group of breeders that amalgamation of the light and dark varieties is both possible and advantageous.

Certain delusions regarding the nature of Barred color have persisted from the early days of this breed down to the

present time. First, was the old tradition that the male's lighter color was due to the influence of early crosses upon which the breed was founded—a view which will not stand



Feathers taken from fluff of Imperial "Ringlet" pullet shown on opposite page.

the test of careful investigation. This sex difference of color is not peculiar to the Barred Rock alone, but has been the common heritage of all breeds of Dominique color. The natural outgrowth of such misconception is the assumption that such sex distinctness of color may yield to some course of breeding until the male and female shall breed true to one uniform color type. So utterly absurd is this delusion that it would seem a waste of effort to combat the same, were it not that such is being put forth as an argument favoring the merging of the lights and darks into one variety.

In opposition to this scheme I would urge the prospective detriment to the breed. The Barred Rock's wonderful advance toward color perfection and marvelous utilitarian worth have been made possible only by a system of breeding which calls for the bringing together of heterogeneous elements. And a plan which involved the mating of stock identical in color and blood, were such a thing practical, would prove a calamity. However, we do not take this thing seriously. The Barred Rocks will inevitably continue to be bred as heretofore, as all experienced breeders well know, and this movement is calculated to centralize power to win prizes in the hands of the few to the detriment of the many.

I have dwelt upon the practical advantage of two color types of Barred Rocks. Fancy considerations also urge the continuance of this plan. The history of the breed is one of successive changes of interest as development in beauty progressed. The original male's color was comparatively crude, so that the early Standard called for no suggestion of barring, and interest centered in the female, whose color was prescribed as having "well defined" barring. The dark family was a later production, whose males only were at first featured, the females in turn sharing attention. Last and most important of all in possibilities for the future, the light male is entering upon a phase of development which promises to make it the breed's most strikingly beautiful representative.

The development of two varieties of Barred Rocks was a breeding necessity and their admission to the show room follows a popular demand that breeding stock, not alone a finished product in many cases unfitted for breeding, should be publicly shown. Two fully recognized varieties are required in order that the breed may be kept growing. It would be impolitic to abandon conditions under which Barred Rocks have lately won an unprecedented increase in popular interest. They must be permitted to develop along natural lines unhampered. It is of economic importance that the Barred Rock take its merited place among practical breeders, winning back the large degree of favor it once enjoyed and lost thru discouragement incident to uncertain ideals, and mystery as to details of mating, now largely remedied.



Unretouched photo of Miss Emily Holterman studying an "Aristocrat" Barred Rock, owned by her father, W. D. Holterman, Box A, Ft. Wayne, Ind.



United States Government Exhibit at Chicago Coliseum Show, December, 1917.

U. S. Government Poultry Campaign

THE Government poultry campaign to stimulate increased poultry production was officially staged and brought before the attention of the public at the recent Kansas City and Chicago Coliseum Poultry Shows, in the form of an exhibit illustrating the fundamental principles of poultry work.

While this exhibit is practically the same as been shown at the Madison Square Garden Poultry Show for two years, at the same time an effort was made to couple with it the various phases of emergency poultry work that the Government is carrying on by means of placards and lectures by those in charge.

Heretofore the purpose of the exhibit has been to acquaint the public with the work that is being done at the Government poultry farm. In view of the present poultry situation, however, an added effort was made at these two shows to interest city and suburban people in poultry keeping and to acquaint them with the fundamental principles of this subject, so that their beginning in this work could be accomplished with a minimum of mistakes. Great interest was manifested by the visiting public and poultrymen thruout this section of the country. Thousands of Government publications were distributed without charge to those who expressed their desire for information on this subject and several thousand people registered their names and addresses, with a view to securing additional information on some particular phase of poultry work.

Briefly, the poultry exhibit proper consisted of the following:

A model of the Government poultry breeding house was shown, illustrating the method of construction and equipment. This house was divided into pens 14 feet deep and 6 feet wide. The small size of these pens is convenient to accommodate breeding pens where the matings are small. Should this style of house be used for layers exclusively, most of the partitions would be removed.

Several models were shown of the style of colony house and colony growing house, both of which have been used for several years at the Government farm. As the name would imply, these houses can be moved from place to place, giving the growing stock and layers the advantage of ample range and green food thruout the spring and summer months.

The model that probably attracted more attention than any other was that of a house suitable for back-yard poultry keeping. This house can be constructed to suit practically any conditions that might present themselves to the amateur and is so arranged as to involve but little cost for construction.

It was to be regretted that the back-yard poultry bulletin, which is now on the press, was not available at either of these shows for distribution. However, parties desiring this publication may obtain it as soon as issued by applying to the Federal Department of Agriculture at Washington, D. C.

Two dry mash hoppers were shown in model. The first is a large hopper for use on range for growing chickens. It is large enough to allow at least twenty chickens to eat at one time and holds from three to four bags of dry mash. It is so constructed that the feed is absolutely protected from rain and the waste is reduced to a minimum. The value of such a hopper is obvious, for it permits the birds to eat whenever they want to, thus insuring constant and rapid growth.

The other was an inside hopper designed for use in feeding dry mash to laying hens.

The fattening battery shown in miniature is composed of a series of coops built in such a way that the chickens can be confined in them and easily fed and cared for. In this way the chickens can be fattened for market in a short time. Such a battery can well be used on many farms where broilers are to be sent to market.

While these houses and other equipments are not presented in any sense as the best or the only good types, they are shown as those that have been in actual use for some time at the Government poultry farm with good results.

At the egg candling table, fresh eggs, both fertile and infertile, which had been subjected to incubation temperature for various periods were shown, first as they appeared before the candle and then broken out into a saucer. It was of special interest to observe the development of the blood vessels and beating of the hearts of the fertile eggs which had been broken out. This exhibit showed clearly the superior keeping qualities of the infertile over the fertile egg, as no chick development could take place in the former.

The exhibit of several dozens of hens' eggs graded according to size, color and cleanliness, offered an opportunity to compare eggs of different color and size and also to compare those of uniform color with those of a mixed variety. The influence which these factors have on the attractive appearance of eggs was very noticeable.

Many birds and varieties of chickens and water fowls were shown in a large collection of colored pictures hung on the wall in the back of the exhibit. These enlarged colored bromides were supplemented by transparencies which were illuminated by means of electric lights showing additional poultry plants thruout the country.

The feather cards or charts on which feathers from the

different parts of fine chickens had been mounted were of great value in showing the distinctive colors and markings of different breeds and varieties of poultry.

To impress upon the public the important factors and phases of poultry work, placards and signs were placed in and around the exhibit, calling attention to the importance of immediate action on the part of the public and poultrymen to take such steps as will insure an increased production in poultry and eggs.

The wording of some of these placards was as follows: "Hatch early. Early hatched pullets produce fall and winter eggs. Produce more poultry. It is imperative that poultry and egg production be increased."

"Preserve eggs when cheap for winter use."

"Ask the Government's poultrymen how you can assist to increase poultry and egg production."

"When hatching is complete, produce infertile eggs."

"Don't market early hatch pullets."

"City poultrymen, keep two laying hens for each member in your family. You should keep a pen of fowls in your back yard."

In Kansas City, a supper was given to the Government representatives and some of the prominent poultrymen, by G. D. Kenyon, of Kansas City, who is one of the directors of the show. The supper was given in the rooms of the Old Colony Club at the Muhlbach Hotel.

Interesting talks were given by Harry M. Lamon, senior animal husbandryman in charge of the Government poultry work; J. W. Kinghorne, who is the district representative in charge of the emergency poultry campaign in the Middle West; Prof. W. A. Lippincott, in charge of the poultry work at Kansas Agricultural College; Prof. H. L. Kempton, of the University of Missouri; C. T. Patterson, director of the Missouri Poultry Experiment Station at Mountain Grove; Judge Drevenstedt, of Schenectady, N. Y.; R. H. Wilkins, who is in charge of the Government campaign in Kansas City

district, and E. M. Clendening, secretary of the Kansas City Chamber of Commerce.

Later in the same evening, Harry M. Lamon made a very strong appeal to the poultrymen of the Middle West to support in every possible way the Government's effort to stimulate poultry production as a source of food. Mr. Lamon said in part, "It is very imperative that you, as poultrymen, should interest others in this great work, but, like charity, this interest should start at home, and you as the foundation of the poultry industry in this country should interest yourselves to take a new interest in your business and thus set an example to others as to the importance of this vital industry."

At the Coliseum Poultry Show in Chicago, two meetings were held—on Wednesday and Saturday nights respectively. At the meeting held Wednesday night, December 5, Mr. Lamon repeated his appeal to poultrymen along the lines mentioned above.

In addition to this a very interesting talk was given by Geo. M. Rommel, of the Department of Agriculture, explaining in detail to the poultrymen present what they might expect in regard to the grain situation. He brought to their attention the fact that there was an increased production of over one billion bushels of the six important grain crops in this country and that as soon as these crops begin to move, it could reasonably be expected that feed prices would be correspondingly lowered.

President E. E. Richards, of the American Poultry Association, and Grant M. Curtis, of Quincy, Ill., both made very interesting talks at the meeting held Saturday night, December 8, as to the important part that the poultrymen of this country can play as producers of valuable food for our own country, our Allies and our armies in the East.

J. W. Kinghorne, who was in charge of the Government poultry exhibit at Chicago, expressed his great appreciation to the officials of the Coliseum Show for the support and interest taken by them and for the prominent place given to the Government exhibit.



A pair of bred-to-lay White Orpingtons on the farm of John G. Poorman, Box 100, Tinley Park, Ill.



S. C. White Leghorn male, heading first young pen at the National Leghorn Show, Columbus, Ohio, November 28 to December 3, 1917. Owned by Hillview Farm, Box 27, Lincoln, Mo.



First prize Single Comb White Leghorn pullet at National Leghorn Show, Columbus, Ohio, November 28 to December 3, 1917. Owned by Hillview Farm, Box 27, Lincoln, Mo.



A typical Single Comb Buff Orpington male. Owned by C. S. Byers, Hazelrigg, Indiana.



A typical Single Comb White Orpington cockerel. Owned by C. S. Byers, Hazelrigg, Indiana.

CHICAGO COLISEUM POULTRY SHOW

Ninth Annual Exhibition, December 4-9, 1917. Pronounced
a Success from Every Viewpoint.

By Theo. Hewes

IN MAKING this report of the 9th annual exhibition of the Great Mid-West Poultry and Pet Stock Association, I will ask that the readers of the AMERICAN POULTRY JOURNAL have just a little patience, as with the immense work in connection with the management of the show, and at this writing with my office piled up with mail that should have prompt attention, there may be some important items that are overlooked. In fact, I had no intention of writing up the show, but was drafted by Mr. Bell at the last moment and will try in the right way to give the readers some idea of this, one of America's greatest poultry and pet stock exhibitions.

Any association that has the courage to go ahead in the face of present conditions and put on and carry thru successfully a show where expenses run close to ten thousand dollars is entitled to the patronage of the best breeders of poultry and pet stock, and it seems that these men realized their responsibility and gave to the Coliseum Show this year one of the largest exhibits.

The pet stock fanciers did their part nobly and put on what was considered by expert pet stock showmen to have been the greatest exhibit, not alone in number but in quality, that has ever been held in America. This exhibit attracted a wonderful amount of attention, in fact sufficient attention to warrant the Coliseum management in considering it one of the permanent fixtures at future exhibits, and the breeders were more than pleased with the treatment received, not alone from the management but the sales of high priced animals exceeded that of any exhibit they have ever held.

The poultry entries totaled a trifle less than in 1916, but the pet stock entries, this being a new feature of the Coliseum Show, more than made up for the shortage. The classes that did not draw up to expectations were the ones where large cash prizes were offered by specialty clubs. In fact, it would seem that you can over-advertise any special feature in the poultry exhibition and by offering too much cash you scare out the little fellow, who, believing all of the big breeders of the country would come, and some of the big breeders falling down at the last minute, does not give the show as many entries as we have when no special effort is made to bring them out.

This is of itself an argument following the suggestion made by W. W. Henderson, of Bridgeton, Mo., that all cash prizes should be eliminated from the national shows and that the only prizes that should be offered are the ribbons and such specials as are offered by the breeders themselves.

The Coliseum has been noted for the past nine years as one of America's greatest sale shows and from what we learned from the breeders who are making the leading shows in the country, it seems we are safe in making the statement that it exceeds any other show on the American continent, not alone in the number of sales made but in the prices received for really high class specimens. We have what is known as the sales card. This is an ordinary shipping tag printed on red cardboard and when sales are made requiring transfer of the stock to different routes of shipping, tags are attached to the cages for the information of the superintendent and his assistants, and it is a fact that the last day of the show many of the classes looked like a crazy quilt, as about every bird in the class had changed ownership and required a different shipment out.

In studying the sales at this show one cannot help but note the whim of the buyers. One year one breed or variety will have a big run, perhaps the next year there will be but few sales in that class and some other breed or variety will take

the prominent position, but the two breeds that hold, that can always be depended upon to require a lot of red sale tags, are the Barred Plymouth Rocks and the Rhode Island Reds. The Barred Plymouth Rocks, we believe, lead over all other varieties, but this year there was a switch to the old-time Light Brahma, and one exhibitor of this variety told me that during the first five days of the show he had sold in stock and eggs more than \$300 worth.

The White Wyandottes, usually one of the best sellers in the Coliseum, did not seem to be in as great demand as in former years. The show this year being held on the same dates as the International Stock Show undoubtedly helped in the sale of birds to a very great extent, as we found quite a few stockmen among the buyers and they were willing to pay what good birds were worth, and in several instances the shipments were made in connection with other live-stock that had been purchased at the yards. The management of the Coliseum realizes the importance of this date, not alone to itself but to the breeders as well. The same dates will be reserved for 1918, and breeders are advised at this early date that the Coliseum Show for 1918 will be held during the first full week in December.

The attendance for the first four days exceeded that of former years, but on the night of the fourth day a blizzard, one of the severest that has blown over the lake region for a number of years, struck Chicago. The mercury dropped below zero, and the Saturday and Sunday attendance was not nearly up to former years, in fact was so much below the average the last two days that it more than overcame the increase for the first four days, but regardless of these conditions, the association is in good shape financially, and is going ahead to build up a greater exhibition for the coming season.

In a report of this kind it would not be fair to attempt to describe one breed more than another; in other words, to give preference to any one variety, but we believe the Barred Rock fanciers thruout the United States are entitled to know some things and are perhaps more interested in the result of this show than that of any one class.

As it had been advertised there would be a new club organized, taking in all varieties of Plymouth Rocks under one head, this club was organized and was given the title of International Plymouth Rock Club, and the cups and specials that were offered were without question the best that have ever been offered at any national show. When the breeders got together and realized the importance of the move, that by the organization of this specialty club the smaller or weaker Plymouth Rock Clubs could be taken care of by the parent body, we found a willingness on the part of all to co-operate and it was decided that the next annual meeting of the International Plymouth Rock Club should be held at the Coliseum, and now that all are working in harmony and everybody interested in the several varieties of this popular breed is striving to make *America's greatest production* more popular, we would not be at all surprised to see at least one thousand Plymouth Rocks in the Coliseum in 1918.

At the exhibition just closed, there were 300 single entries and 42 pens shown in the Plymouth Rock class, the Barred Rocks leading in number, followed closely by the Whites. This was unquestionably one of the greatest White Rock shows ever held in the Coliseum, and an immense demand was created for high class stock of this variety. With the members present joining their forces with the International Plymouth Rock Club, and some of the prominent members being appointed to executive positions in the new club, we may look for the greatest boom on (Continued on Page 84)

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

SUBSCRIPTION PRICES.

United States, Cuba, Mexico and United States Possessions (except Chicago).....	1 Year 12 issues	3 Years 36 issues
Canada	\$.60	\$1.00
Foreign .....	.85	1.75
Chicago	1.10	2.50
	.75	1.50

Chicago, Canadian and Foreign subscriptions require additional postage and therefore the slight difference in prices.

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TRADE MARK REGISTERED,
No. 74,059.

Issued the first of each month.

Published by

**American Poultry Journal
Publishing Co.**

JAS. W. BELL, President,
542 So. Dearborn St., Chicago, Ill.

Editors.

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PRINCE T. WOODS.

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Advertising Representative,
E. G. ALDRICH.

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State of Illinois, County of Cook, ss.:

Chas. S. Peterson, secretary of the Regan Printing House, Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 62,000 copies of the January, 1918, issue.

CHAS. S. PETERSON.

Subscribed and sworn to before me this
20th day of December, 1917.

(SEAL)

ALICE A. SHEHAN

Notary Public.

The New Year

With the coming of another New Year full of hope and promise we can think of no better wish than the fulfillment of the prophecy contained in that paragraph of President Wilson's message which reads:

"The thought of the plain people here and everywhere thruout the world, the people who enjoy no privilege and have very simple and unsophisticated standards of right and wrong, is the air all governments must henceforth breathe if they would live."

While everywhere the hope lives that 1918 may bring peace to the world, our President makes it plain that the price of peace is "full, impartial justice—justice done at every point and to every nation that the final settlement must affect, our enemies as well as our friends." He clearly states that "Our present and immediate task is to win the war, and nothing shall turn us aside from it until it is accomplished. Every power and resource we possess, whether of men, of money or of materials, is being devoted and will continue to be devoted to that purpose until it is achieved. * * * We shall regard the war only as won when the German people say to us, thru properly accredited representatives, that they are ready to agree to a settlement based upon justice and the reparation of the wrongs their rulers have done." When this is accomplished "We shall be free to base peace on generosity and justice, to the exclusion of all selfish claims to advantage even on the part of the victors."

Surely no fair-minded person can dissent from such a declaration of purpose to see simple justice done. There is no expression of selfish ambition, "The cause is just and holy, the settlement must be of like motive and equality. For this we

can fight, but for nothing less noble or less worthy of our traditions."

There is much hope and promise in that message. If the coming year, 1918, can see the fulfillment of this promise of a generous, just, and lasting peace it will prove a Happy New Year indeed.

Let the thought be father of the deed, and may the New Year bring Comfort, Health and Happiness to All.

The Need of Team Work

There is one thing above all else that the poultry industry stands in great need of today and that is unity of purpose and efficient team work.

We do not wish to criticise any individual or organization. These are strenuous times and all of us are bound to make mistakes, we make our share.

The poultry business today, with its various organizations and entire lack of real efficient co-operative organization, its lack of consistency and unity of purpose, reminds one of a hen with her head newly severed from the body—flopping around a whole lot and making a deal of fuss, but headed for no place in particular except oblivion.

The American Poultry Association, which claims to represent the industry, is divided within itself. There are faction fights and overmuch criticism and no team work or co-operation. The President of the American Poultry Association, attacked on all sides and apparently endeavoring to please everybody, seems to be the embodiment of that popular song, "I don't know where I'm going but I'm on my way."

At Milwaukee meeting a committee was appointed to represent the American Poultry Association at Washington—in reality a reappointment of the committee that went to Washington in the spring and did such good work that it was in-



strumental in securing a substantial appropriation to be devoted to increasing the production of Standardbred poultry. So far as we know this committee has never been discharged, but it appears to have been overlooked, and we find other committees being appointed to represent the American Poultry Association in the National capital. In these war times it would seem to be a mistake to have too many little committees running to Washington with our poultry troubles.

Men in responsible positions in the Government have their hands pretty full at the present time. For quite a while it has seemed as if the Food Administration and the Department of Agriculture were pulling in opposite directions, but now evidence is not wanting that they are beginning to get together. There can be no doubt that it would be a wise measure to have both under one efficient head, since food production and food prices must necessarily go hand in hand. Now these busy men, engaged in work that is of vital importance in the winning of the biggest war of all time, have no time to be pestered with many little committees of poultrymen all representing different interests and presenting different arguments.

It is not reasonable to expect Government officials to have patience with, or give consideration to the claims of, a disorganized lot of producers making all sorts of contradictory claims. For example, one poultry commissioner in his appeal for aid and relief for poultrymen justly points out that clause in the American Poultry Association's petition to Mr. Hoover, which reads, "At the present prices of poultry feeds * * * * as compared with prices now obtainable for market poultry and eggs the poultry and egg producer cannot get back the cost of feed used, let alone the cost of labor and legitimate profit." There can be no question about the truth of that appeal for relief, but how must it seem to the busy Government official when another commissioner from the same state presents a booklet filled with figures to show "poultry profits," and still another commissioner, from adjoining territory, pipes up with the story that the poultryman's profits in 1917 were \$1.98½ greater per hen than in 1907 and that in 1907 the profits per hen were \$1.06½ per year. Of course these figures are not based on actual facts, not prepared according to any sane rule of cost accounting, and are very misleading; but the busy official hasn't time to bother with that. If you send him two men to plead the cause of poultry and one man says, "We must have relief, we can't get back the cost of feed," and the other in the next breath begins to brag about "big profits," you cannot expect the official to have patience. You will only have yourselves to blame if he says, "You can't blow hot and cold with the same mouth," and orders you kicked out of the office.

Neither can we hope for relief when a leading fancier and big show manager declaims to the public that, "for the life of him he cannot see why eggs are so high in price and that he can produce eggs for 12 cents a dozen." Of course he can't do it, but the public accepts his word and wonders that such profiteers as poultrymen are permitted to exist, in these days when everyone should be doing his bit. The public believes your story when you brag of low costs and big profits, for it does not think any man would be fool enough to tell such things if untrue; but it does not believe the really true tales of actual high costs of production, because the pub-

lic does not want to believe anything which means that it may have to pay higher prices for food.

The poultry situation is serious. The need of more poultry and eggs is very great. We can get more by presenting the plain truth and by avoiding brag and bluster. We must get together and find out among ourselves what the real facts are; we must throw overboard the profiteers who exploit poultrymen solely for selfish profit; we must decide among ourselves what our real aims and objects are; we must learn about the different production costs under different conditions—and they vary considerably—we must decide what we want of and for the poultry industry. We must organize our now disorganized factions and endeavor to secure unity of purpose, team work for the good of all by each and every member of the fraternity. If we present a united front, consistent claims, and stick to the truth, we will get due recognition. But so long as we remain divided among ourselves and disorganized, "blowing hot and cold with the same mouth," we will continue to flop around and make a fuss and muss like the decapitated hen, but shall get nowhere except oblivion.

Everybody Must Work

One of the good things that has come into being during these strenuous times of world war is the growth of the sentiment against the slackers and parasites in our civil life. The time seems near at hand when every able-bodied citizen, rich or poor, must find employment in some useful, helpful work.

Maryland has already put into action a compulsory labor law of far-reaching scope, which requires every adult male, who is physically fit, to register and state the nature of his employment. He cannot remain an idler, whether he be a poor loafer or a rich man living upon the unearned increment of realties and investments. He must be employed and do his daily share in the work of the world. In another southern state, the mayor of one of the largest cities has announced that he will tolerate no slackers and parasites among the civilian population, everybody must work and useful employment will be found for every able-bodied citizen.

The leaven is working and the great democratic principle will grow, develop, and thrive like the proverbial green bay tree. Our President has stated that we are at war to "make the world safe for democracy" and in his December message to Congress made it very plain that we are fighting for peace with justice for all people of all nations, and that we seek no more than security and freedom for all peoples; privilege and dominion for none.

It is not to be supposed that a Nation, with such a lofty purpose in war, and high sense of justice and instinctive judgment as to the right of plain men everywhere, will tolerate less justice and democracy at home than it seeks to establish abroad. While seeking to make the world safe from a selfish and cruel government which is striving to increase its own wealth and power at any cost, we certainly cannot tolerate at home individuals or monopolies that show similar greed for wealth and power at the expense of the plain people.

There is no democracy in permitting the idle few to continue in idleness, to wax fat and to profit in wealth and power, through the labor of the great mass of plain men and women who struggle with poverty and hardships to feed and clothe these idlers and to produce wealth that they may feast and strut.



First prize Buttercup pullet at Chicago Coliseum Show, December, 1917. Owned by O. B. Disenroth, Lawrence, Mich.



First prize White Orpington cockerel, Chicago Coliseum, December, 1917. Owned by Aldrich Poultry Farm, 5092 N. High St., Columbus, Ohio.

Everybody must work. Everybody must do his bit to help America win the war. When everybody is put to work at whatever task he or she proves most useful, when the good of the community becomes greater than the benefit of the individual, when we learn to know the value of justice, peace, and fellowship among all peoples, when creative and productive labor is compensated at its true value, then we shall enter upon an era of peace and good will that will be as near freedom and democracy as we are likely to get in this world.

The world war has been called the world's travail, let us hope that the birth will be an epoch of simple justice for all peoples everywhere.

Cheaper Grain?—We Hope So.

EVERY mail brings us letters from poultry keepers who anxiously ask our opinion concerning the probability of a drop in the prices of corn and poultry feeds and how soon lower prices may be expected. If we had any inside information concerning the future in the grain market, we would gladly give it to our readers; but, frankly, we are guessing like everybody else and quite as much in the dark.

One Eastern fancier writes us that he is still holding on to his breeders and getting ready to hatch and sell baby chicks this season, but that he is "sinking about \$20 per week in the game and don't know which will last longest, my credit or my courage." There are plenty of breeders who are in the same boat, and all are carrying on in hope of better conditions early in the new year. The Food Administration practically

promises a drop in corn prices soon after the new year, which should reduce prices of poultry feeds. This assurance is repeated in a letter from Mr. Priebe, which is published herewith.

In our opinion, old corn will continue high in price, owing to scarcity. Some of this old corn will be necessary for the manufacture of chick food. New corn does not make as good food for baby chicks. The old corn will be doubly necessary because only small amounts of wheat can be used and possibly the use of wheat may be forbidden. There does not seem to be any reason to look for lower prices on oats. Altho the crop is a large one, the demand is heavy and large quantities of oats will be needed for feeding army horses. Oats will be used more freely by poultrymen this year and this will tend to increase the demand and keep the price firm.

The hope for lower priced poultry grains is in the big new corn crop. Competent observers believe that the crop has been somewhat overestimated and that a large percent will prove to be soft corn. The corn crop is only just beginning to really move in the market and the first shipments proved to be rather poor stuff, much of which was turned over to the kilns to be dried before put on the retail market. It seems probable that we may be able to get fair quality feeding corn at from \$1.60 to \$1.80 per bushel within a few weeks, unless the demand should prove unusually great. There is, of course, always the possibility that the Government may step in and fix the price of corn, but at present the outlook is that corn will take the usual course and that

"supply and demand" will regulate the price.

The first week in December our Eastern markets quoted corn in carlots to ship from Chicago at \$2.08 per bushel for new No. 3 kiln-dried corn. On December 6 the press dispatches from Washington contained the following:

An absolute embargo upon carload shipments of corn and oats into Eastern territory, effective at the close of business next Saturday night, was issued today by the Railroads Car Service Commission, at the request of the food administration.

The administration says there is a plentiful supply of these products in the East for domestic consumption and the embargo is designed to divert a large volume of the traffic in supplies for the allies to Gulf and South Atlantic ports, relieve congestion on Eastern roads and permit the return of cars belonging to Western lines.

The immediate effect of this embargo was to lower Chicago prices on corn. Prices of new corn which were at \$2.08 and \$2.05 per bushel before the embargo was laid, immediately, on the day that the embargo became effective, dropped to \$1.90 and \$1.96 per bushel. Cash corn in Chicago on December 8, was quoted at \$1.70 per bushel for No. 4 white and \$1.65 per bushel for No. 4 yellow. In same market, corn for January delivery was quoted at \$1.20 and \$1.21¼. The market was reported unsettled and uncertain, early trading showing fluctuating prices and later a positive drop in prices as soon as it became evident that the embargo would be enforced.

The Eastern situation is a difficult one. Altho Washington officials say that there is a plentiful supply of corn and oats in our local Eastern markets, grain dealers say that there is great scarcity and there are no offerings of corn. We find it difficult to get a sup-

This Pony FREE

Pollyanna

Pollyanna is a beautiful 3-year-old black Shetland Pony, about 42 inches tall. She weighs about 300 pounds and is worth pretty nearly her weight in gold. Of the 500 Ponies we have given away to Boys and Girls, we think Pollyanna is one of the prettiest.

You may have seen lots of Ponies in Circus Parades, but we don't believe you ever saw one prettier than Pollyanna, and we are going to give her to you, or to some other Boy or Girl, who sends in his or her name.

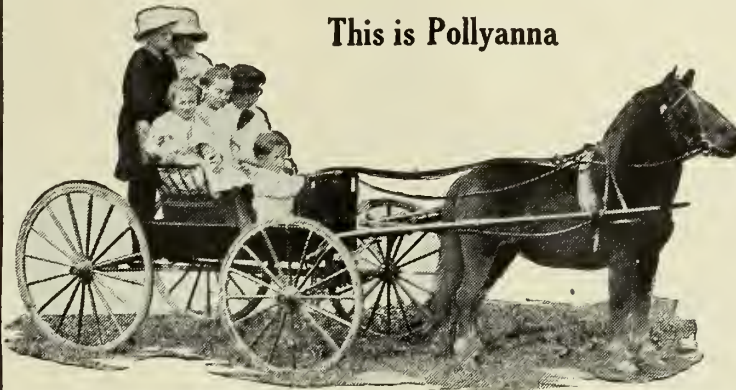
Hitched up to her cute little Pony Buggy, Pollyanna will pull you and all your boy and girl friends that can pile in. Then, when you are tired of driving, you can throw on the Saddle and Bridle we give with Pollyanna and go scampering around the country.

Can you think of anything you would rather have than Pollyanna?

Read this page carefully and then send in your name and address at once.

We shall give YOU, or some other Boy or Girl, this Shetland Pony, with complete Buggy, Harness, etc., just as it looks in this picture.

This is Pollyanna



If You Want to Own Pollyanna
or Any One of the Other
Ponies we are giving away

The Outfit

Best of all, we send free with Pollyanna the complete Pony Outfit just as you see it in the picture.

Besides the Pony, the Pony Buggy, and the Harness, we also send a Saddle and Bridle, which will make you the most complete outfit money can buy.

The Pony Buggy is the most comfortable riding and easiest pulling we could buy. We have given away so many that we know what kind most boys and girls like.

The handsome nickel-trimmed harness looks just fine on Pollyanna, and the Saddle and Bridle are made to order for her.

No child, no matter how rich his parents may be, owns a nicer Pony and Outfit than this one, and we shall send it free with all charges paid to some Boy or Girl.

This is surely the best chance you ever had to get a Shetland Pony, and if you think you would like to have it, send your name and address right away. Some Boy or Girl is sure to get it.

Send Your Name TODAY

As soon as we hear from you we shall write you all about Pollyanna and the other Ponies we are giving away, and tell you how to win one of them. Don't let anyone tell you that you can't win a Pony, because our plan of giving Ponies is different from all others.

We make it easy for children to get Ponies. We use them to advertise our big magazine, the Farmer's Wife. We have already given ponies to more than 500 Boys and Girls, all over the country. Some of these children who received free Ponies were only 6 or 7 years old, so you know we must have made it easy for them to win. Just send your name and address and see.



We Have Given Away Over 500 Ponies

(100)

Here are the names of 30 of the Ponies we have Given Away and the Children Who Won Them:

Bob, John Corn, Pulaski County, Ark.
Sweetheart, Lillias Howe, Nevada Co., Cal.
Pansy, Evelyn Cutler, Windham Co., Conn.
Turk, Alvin Johnson, Bond Co., Ill.
Beauty, Bertram Eldridge, Stark Co., Ill.
Roine, Clarence Busick, Adams Co., Ind.
Bonnie, Amyle Kafer, Carroll Co., Iowa.
Pat, Flossie Meredith, Jasper Co., Iowa.
Jerry, Cleta Johnson, Douglas Co., Kansas.
Toots, Isabelle Whitecraft, Baltimore Co., Md.
Clipper, Adelaide Stever, Bristol Co., Mass.
Snap, Jennie Nadeau, Iona Co., Michigan.
Larry, Wilford Schaffer, Grant Co., Minn.
Duke, Dorothy Eagle, Jackson Co., Mo.
Cozy, Charles Young, Cascade Co., Mont.

Hector, Verna Beerhohm, Cuming Co., Neb.
Hammer, Arthur Wallace, Burlington Co., New Jersey.
Dolly, George Adams, Cayuga Co., N. Y.
Tip, Chester McKee, Wayne Co., N. Y.
Winkle, Myrtle Holbrook, Wilkes Co., N. C.
Judge, Louis Schmidt, Morton Co., N. D.
Flo, Lloyd Thomas, Allen Co., Ohio.
Kip, Anna Miller, Logan Co., Ohio.
Flasher, Clarence Morgret, Cambria Co., Pa.
Pert, Georgia Spencer, Warren Co., Pa.
Dapple, Ernest Heckert, York Co., Pa.
Sunshine, Eva Huddleson, Beadle Co., S. D.
Lady, Marion Jones, Franklin Co., Tenn.
Wizard, John Kenyon, Fairfax Co., Va.
Jingo, Pearl Kerr, Grant Co., Wis.

We haven't room to print the names of all of the 500 children who have won Ponies, but we shall send you the names of several hundred of them, with pictures showing many of them playing with the Ponies we sent them. All you need do is to send your name and address at once. Fill out and mail the corner on the left, or just write your name, address and age on a Postal Card and send to us. Do it today. Address

THE PONY KING, 610 Webb Bldg., St. Paul, Minn.

Pony Pictures Free

When you send in your name, we shall tell you how to get a Free Pony and also send you some Pony Pictures showing the Ponies we are giving away. Write your name below or send it on a postal card.

THE PONY KING,
610 Webb Bldg., St. Paul, Minn.

My Name is.....
P. O..... Age.....
State..... R. F. D.....

ply of corn and oats for our poultry at any price, and cannot tell at present what effect the embargo will have on our local supply. It takes anywhere from weeks to months to get carload shipments of grain into the East from Chicago under present conditions.

We are not advising readers to do anything that we would be unwilling to do ourselves. We have a considerable flock of breeders and layers. Having carried them thus far, we are going to try to hold on a little longer. We may have to dispose of a few more of them if the local scarcity of grain and the high prices continue. There is no doubt but that there is very urgent need of more poultry and more eggs. As long as we can "stick it out" we shall en-

deavor to hold on to the best of our flock. At present writing we are feeding about 400 head of adult and young stock. We do not know how much truth there may be in the promised relief from high grain prices. Mr. Hoover, in his speech in New York City, on December 5, said that "The cost of corn is dropping every day." He also told his audience that because of the lowered price of corn, one might expect milk, eggs and poultry prices to be lower soon—tho that is rather cold comfort for the producer who has been feeding high cost feeds for the past year. The date set for the lower prices to become effective is "January 1 and thereafter," so we have not long to wait for the "proof of the pudding."

We wrote the Food Administration asking for information on the grain and feed situation. Herewith is the reply from W. F. Priebe, given in full:

Washington, D. C., December 6, 1917.
Editor American Poultry Journal:
This will acknowledge receipt of your letter of December 4 on the question of feed for poultry.

The undersigned is responsible for the statement that we believe poultry feed will be from 40 to 50 percent lower by January 1st and thereafter. Will state that nothing has developed that has changed our opinion that new corn will sell for about one-half the price of old, and as corn is the fundamental, it will, no doubt, have its influence on other grains that enter into the make-up of poultry feeds.

Up to the present our advices are that owing to the mild weather, corn has not dried as rapidly as in former years and while some has reached the Chicago market, it has been very damp and we notice sales of No. 3 corn at \$1.80, while No. 2 corn for January delivery is selling for about \$1.20.

The railroad situation is, of course, bad. It is affecting all lines of business, but the greatest minds of the country are here working on the transportation problems and we have confidence enough in the executive ability of the American people to solve any and all troubles and believe this situation will be adjusted and bring relief to all engaged in the business.

In the meantime it is the duty of all patriotic citizens to be patient and have confidence in those holding responsible positions in the government.

Yours very truly,
United States Food Administration,
By W. F. Priebe.

Co-Operation in New Jersey.

THE Passaic Poultry, Pigeon and Pet Stock Association, Passaic, N. J., reports that the co-operative plan of organization is proving a mighty good thing for poultrymen, that it has a membership of 110, and new members coming in rapidly.

This association has membership in the State Association and thru it enjoys the benefits of co-operative buying of feeds and supplies as perfected by the Co-operative Committee of the State Association. Membership in the Passaic organization, which only costs \$2.25 the first year and \$1.25 per year thereafter, entitles one to all benefits.

The co-operative buying of feeds enables members to get guaranteed grain and feeds at practically carlot prices, thus eliminating middlemen's profits. Members are asked to buy a five weeks supply at one time and to order on certain specified dates.

Payments for feed must be made within five days after bills are rendered, otherwise an extra charge must be added of 5 cents per bag, and a penalty of 6 percent will be made to cover bank charges. A cash rebate is allowed on bags returned in good condition. Feeds are delivered in Passaic for the additional sum of 10 cents per bag, and in Paterson at 15 cents per bag. Where feeds must be reshipped, a nominal charge of 3 cents per bag for the transfer is made.

The success of the system depends

Get Eggs

DR. HESS POULTRY PAN-A-CE-A

This is money-making time. Eggs are high—you want eggs to sell. Get your hens in top-notch laying condition. Feed Pan-a-ce-a to give them good health and good feeling. It contains ingredients which act on the dormant egg organs—lives them up and makes them active. It does give hens the *laying disposition*. That's why you should feed Pan-a-ce-a regularly during the winter months. Pan-a-ce-a has stood the test of nearly 25 years. Dealers are authorized to return your money if it does not do what we claim. Packages, 25c, 60c and \$1.25. 25-lb. pail, \$2.50; 100-lb. drum, \$9.00. Except in the far West and Canada.

DR. HESS & CLARK, Ashland, Ohio

HILLVIEW FARM

SPECIAL EGG MATINGS
CHIX-19c
EACH
EGGS-12c
EACH
SEE CATALOG
OFFICIAL SIRE & DAM RECORDS

"HILLVIEW" STRAIN
AMERICA'S GREATEST
SINGLE COMB
WHITE LEGHORN

Sweepstakes Champions

at the ALL Leghorn Show

Columbus, Ohio, Nov. 28—Dec. 3, 1917, in the largest class and in the hottest competition ever staged outside of the Garden. Our winnings were 1-2-3 pullets; 1-5 hen; 1 young pen; 2 old pen; 2-4 cock; 5 cockerel; largest and best display; best bird in the show room, best headed male and female, winning the only silver cup offered. Among the leaders three years straight at the Mo. Laying Contest. Write for all particulars; get our prices. Catalog and mating list free. Cockerels and pullets for the largest shows in America at reasonable prices.

Box 27 LINCOLN, MISSOURI

290 EGGS IN ONE YEAR

MAPLESIDE Bred-to-Lay Barred Plymouth Rocks

Regardless of what some may say who perhaps have never produced a phenomenal layer worth while, Mapleside produced the phenomenal layer Liberty Lass, record 268 eggs in one year. She was also a phenomenal breeder—30 percent of her eggs hatched. She also possessed phenomenal prepotency, manifested generation after generation; twenty of her daughters laid 4,064 eggs in one year (one went 250); ten first granddaughters laid 2,123 eggs in one year (one went 249). Her son sired the six pullets that averaged 242 eggs each in one year (one went 261). One of her great-granddaughters so far laid 266 eggs in 10 months and 29 days, with no signs of quitting. Her blood and breeding permeates my entire flock. My catalog tells the rest; it's free. Stock, Eggs and Chix with phenomenal laying trait at right prices.

O. F. MITTENDORFF Box F LINCOLN, ILLINOIS

upon prompt cash payments by members for supplies purchased, therefore the penalty for delayed payments.

The system is similar to that employed by the Old Colony Co-operative Poultry Exchange of Massachusetts, except that the latter is an independent county organization, not yet associated with a state organization, has no membership fee, but every member is a shareholder buying one or more shares at \$5 per share. The Old Colony Exchange employs a buyer or sales manager, who buys grain at carlot prices and superintends shipments and deliveries. The exchange makes a small profit on the grain to pay operating expenses. The directors of the exchange govern it and sign notes at the bank for loans required to pay the sight draft on each car shipment. Small extra charges are made for local deliveries. Prompt cash payment for grain is required so that the exchange can promptly take up its loans at the bank. The directors carry a checking account sufficient for the current business of the exchange and all checks are drawn by the treasurer of the organization.

The co-operative plan or organization seems destined to grow rapidly and may help to solve many of the poultry keepers' problems, particularly the buying of feed and the sale of poultry produce.

Breed Articles Wanted.

MR. FANCIER-BREEDER, are you "doing your bit" for your favorite breed or variety? It does not look like it.

If your breed does not get more publicity and thereby increase the demand for it, who is to blame? As one old-time fancier puts it, "This is no time to sit back on your haunches, bay at the moon, and be sorry for yourself."

We want more breed articles—real breed articles—that tell about the merits of the variety, how to mate and breed to get results, what the small chicks look like and their appearance at various stages of growth, how to feed and care for the birds to get best results in Standardbred quality. We believe that in these times fanciers—real fanciers—should have sufficient interest in their favorites and in the fancy to contribute such articles free. We have repeatedly asked for such articles, written to fancier friends and asked for them, but since the war started the fancier-breeder seems to have crept into his shell to hibernate. This is no time to quit and wait for more propitious times. Never before were entertaining hobbies more greatly needed to take our minds for a time out of the stress of everyday affairs.

SEARCHLIGHT EGG TESTER
PAT'D.
\$3.50 by Post
MOVE THE TESTER, NOT THE EGGS
PERFECT TEST ON 3RD DAY WITH EASE AND SPEED
SENT ON APPROVAL BY
F.W. DOBBEL SONOMA CALIFORNIA

Smith's White Leghorns

Win Three Firsts at the Chicago Coliseum, Dec., '17

In the Hands of My Customers, with birds direct from me and with birds hatched from eggs I sold last spring, my strain of White Leghorns, at the Chicago Coliseum Show, Dec., 1917, won:

- Two Places on Young Pens—Including First
- Two Places on Old Pens—Including Second
- One Place on Cocks
- Three Places on Hens—Including First
- Four Places on Cockerels—Including Second
- Three Places on Pullets—Including First

My customers tell me that they get more quality for their money from me than elsewhere. In addition to my own remarkable winnings at this and other of America's greater shows, my strain, in the hands of my customers, wins at the Chicago Coliseum, 1917. My matings for 1918 will be even better than in 1917, and my 1917 matings produced many of the winners at the Coliseum.

A word to the wise is sufficient

Eugene Smith, 317 Galena Boulevard, Aurora, Ill.

Write Today for my new catalog telling all about my Leghorns. It's free for the asking.

Myers' Barred Plymouth Rocks



A 1917 "Lady Beautiful" Pullet.

Lady Beautiful Strain

Win annually at Madison Square Garden, New York, Philadelphia and Hagerstown.

If you want to raise winners, I can furnish you breeding birds to produce them. Personal attention given to mating pens and trios to produce exhibition females. Mention A. P. J.

C. N. MYERS

BOX A HANOVER, PA.



WOOLERY FARM OFFERS YOU White Orpingtons

that will WIN anywhere. They will win in egg laying or in any competition. These birds are pedigreed, line-bred by the trapnest. They are assured layers of the highest quality, line-bred from guaranteed STAY WHITE males with 200-egg record hens. If you want a cock, cockerel, pullet, hen or pen for breeding or any show—WRITE US—We have the quality. Catalog-mating list free.

WOOLERY FARM Box A BLOOMINGTON, IND.

WHITE QUILL White Rocks are right among THE LEADERS

Winners at Chicago Coliseum, Milwaukee Auditorium and Wisconsin State Fair Show Birds and good Breeders at all times on approval, or if you are contemplating buying eggs, or baby chix, write me, as I am already booking orders.

A. F. POLTL Hartford, Wisconsin

America's Best Wyandottes—Golden, Silver, White

Winners of over 400 premiums at Madison Square Garden and Chicago. Line bred for 32 years, heavy layers. 500 head of fine exhibition and choice breeding birds to spare, prices right. Golden Sebrights. Large circular. IRA C. KELLER, Box 75, PROSPECT, OHIO

You can get the American Poultry Journal 3 years for \$1

About the only time, nowadays, that we can secure breed articles is when some wide-awake fancier-breeder comes to the front with a prize article contest offer.

We will gladly give more space to good interesting and instructive breed articles, and we believe that the fanciers should be willing to contribute such gladly for the good of the cause. What do you think?

Be Careful With New Corn.

WE WISH to warn our readers to be careful in the use of the new 1917 corn for poultry feeding. Much of the corn that is coming onto the market is soft and of low grade. A great deal of it is moldy. The molds affecting corn are very dangerous to both poultry and horses. Some corn molds will quickly cause disease and death in both adult fowls and young chicks. Try out your new corn on a very few birds before using it for the whole flock. Be sure that all the corn is equal to the sample tested.

The new corn crop is a very great disappointment, so far as early shipments are concerned. Much of it is "soft," full of moisture, due quite as much to an unfavorable growing season as to the early frosts, and this corn even when kiln-dried is pretty poor quality poultry food. A good deal of the kiln-dried corn is chaffy and of low feeding value. There are only very light offerings of No. 2 and No. 3 grades of corn which are most desirable for poultry feeding. Most of the early offerings of corn are No. 4, No. 5 and lower grades, pretty poor stuff at best. *Wallace's Farmer*, Des Moines, Iowa, leading agricultural authority of the corn belt, makes the following editorial comment on the new 1917 corn:

"The condition of our corn is even worse than the most pessimistic anticipated. Beginning early last summer *Wallace's Farmer* commenced to issue warnings against overestimating the corn crop. Our estimate right along has been about four bushels to the acre below the government estimate; but it begins to appear now that even our estimates are somewhat high, considering the amount of soft corn.

"In many parts of Iowa corn which was cribbed has molded and heated badly, and is being hauled out, spread out on the ground, and sorted by the women and young folks. In some cases it is not good enough to even bother to sort it, and is being spread out on the fields. * * * *"

"The combined judgment of dealers in grains all over the country, as expressed in the prices on the Chicago Board of Trade, sooner or later reflects the true situation. These prices are not truly indicative this year, however, because for some months there has been an arbitrary limitation on the price of both December and May corn.

"We make no prediction as to future prices of corn. Extraordinary influences are at work, and prices will be determined not alone by the amount of this year's corn crop. As to the latter, we venture the statement that there is not as much sound corn in the country this year as there was last year. * * *"

"We tried to point out the danger of losing our heads and upsetting our established system of agriculture. In the most vigorous way we knew, we tried to get the attention of our people to what was going on with our live stock industry. Unfortunately, we made very little apparent progress until the time for satisfactory action had passed. The packers were permitted, and possibly with the assistance of the Government, to beat down prices on live stock until they were wholly out of their proper relation to prices of grains. The result was inevitable. Live stock was rushed to market. Some of the people who should have known better looked wise and said there was nothing alarming in the situation.

"Now we are paying the penalty. From 25 to 30 percent of our corn is too soft to save to the hot weather next summer. The only satisfactory use that can be made of it is as feed for live stock, and we have not enough stock to eat it. Had a steady hand been at the helm last spring and summer, and had fair prices been maintained for live stock, and had the desirability of maintaining our live stock supply been presented in an understandable and convincing way, we would have been in much better shape to fight a successful battle against hunger and possible famine.

"The necessity of feeding this soft corn has impelled farmers thruout the corn belt to reach out for live stock wherever they can get it. Very likely the result will be a heavy run of hogs and cattle during January and February and possibly into March, and a correspondingly light run next summer. There will not be enough sound corn carried over to maintain our average live stock supply between the time this soft corn is fed out and the time another crop is harvested. The officers of both our Food Administration and the Department of Agriculture should take careful note of this situation and make their plans accordingly.

"There has been a great deal of talk of the need of increasing our production to feed both our own armies and the armies of our allies. *Wallace's Farmer* believes that the need of production is even greater than our leaders have been telling us; and that unless they exercise the greatest wisdom there may be almost a world famine within the next eighteen months."

We hope our readers will read the above carefully. Editor *Wallace* is no alarmist and he is a very clear thinking American patriot. What he says of the live stock and corn situation applies to poultry keeping as well. Much poultry has been slaughtered that might have been saved, chiefly because poultry and egg prices were out of their proper relation to the prices of grain and feeds.

The heavy selling of poultry accompanied by "price smashing" thru the summer and fall, together with increasing cost of feeds, discouraged many poultry keepers and drove others out of business. Take the country as a whole and the total poultry is about 50 percent below normal, while in New England it is probably 75 percent below normal. The large percentage of soft corn and the amount of spoiled and moldy corn is a serious menace to successful poultry feeding during the 1918 season. A big campaign is being conducted to increase the production of poultry, but there seem to be too many advisers who are pulling in different directions, and not sufficient attention is being given to the serious nature of the grain situation.

We can, with proper feed and under favorable conditions, greatly increase the supply of poultry during the coming summer. The increase can only be brought about by making it possible for poultrymen to pay expenses. We do not believe that the average poultryman will ask or expect a profit. All he will ask is an opportunity to serve the Nation without loss. If he works to increase food production, as it is very necessary that he should, he is certainly entitled to a living and the return of all operating costs. If he can pay expenses and get a living for himself and family, he will produce an abundance of poultry meat and a good supply of pullets to lay eggs next fall and winter. He does not ask more than "simple justice." If he cannot get a living out of his business, he cannot produce. The backlotter may be able to keep a flock for pleasure, as a hobby, and as a home supply, and pay the expenses out of money earned at other work; the farmer may be able to keep a fair-sized flock as a farm by-product, but the poultryman must get expenses plus a living or he cannot stay in business. He does not ask what the packer demands and gets—9 percent profit on every dollar of capital above all operating expenses—he merely asks expenses and a fair and just living wage and he should get it.

The famine danger is a very grave one. The corn situation is a difficult problem for poultry keepers to solve. Fowls cannot be kept or chickens grown with spoiled or moldy corn. Some of the soft and moldy corn may possibly be

Regal Dorcas White Wyandottes

Profit or Loss

These are strenuous times for the Poultryman and to make your Fowls show a profit requires more careful management than ever before.

Regal Dorcas White Wyandottes, with generations of vigor, prepotency and heavy egg production back of them, are showing a good profit in the hands of thousands of poultry keepers all over America. One customer, who kept the Regal strain and one other leading strain in his yards, writes me that from his advertisement in the poultry journals he received twelve times as many inquiries for birds of the Regal strain as he did for the other strain. He therefore decided to keep nothing but the Regal strain. I have had scores of letters from customers with similar experiences, proving that the Regal strain today leads all others in popularity.

If you find difficulty in selling your surplus stock and if your birds are not showing a profit, why not give the Regals a trial? They have been a profitable investment for others and they will be for you.

5000 Cocks, Hens, Cockerels and Pullets For Sale 5000

SPECIAL—500 beautiful exhibition cockerels and pullets ready now to win the blue ribbon for you. 300 well matured cockerels from my heavy laying Dorcas line, \$8.00, \$10.00, \$15.00, \$20.00 and \$25.00 each. Dorcas pullets, \$4.00 and \$5.00 each. Breeding pens (male and four females) \$20.00, \$25.00, \$35.00 and \$50.00. Vigorous utility cockerels, \$4.00 and \$5.00. Order at once and get first selection.

Send one dime for the Regal White Wyandotte Book, telling all about the Regal strain. **FREE**—My catalog and mating list is free if you will send me your name.

JOHN S. MARTIN

Box 51

Port Dover, Ontario, Canada



First Prize Cockerel at Madison Square Garden, December, 1916

salvaged by washing it and then thoroly boiling it before feeding the corn to adult stock; but this spoiled corn cannot be fed to small chicks. Oats seem a good sound crop and these will help out. Crushed oats make excellent food for young chickens of all ages.

The poultry business and poultry keepers are not in need of "stimulation" at this time. Inflation of the business at this time may well nigh prove fatal. What we need is practical help from practical men who keep and feed poultry and know what they are talking about. The right sort of publicity in stimulating demand for poultry and eggs—education of the consumer to use more poultry products and to be willing to pay a fair price for same, education of the consumer to make the best use of poultry products and not to waste valuable poultry fats and soup-stock parts. Show that poultry and eggs, even at top prices for 1917, are economical, nutritious, wholesome foods, and in comparison with other meat foods are big value for the money.

Give the poultry keeper a square deal. Cut out a lot of the "get-rich-quick bunk talk" and put it up to wholesale and retail dealers in poultry feeds to keep the poultry keepers supplied with grains and feeds at fair and just prices. There has been a lot of gouging during the past year by someone between the producer of grain and the poultryman; we do not know who has been to blame, but that sort of profiteering ought to be cut out. When local stocks of grain and feeds jump from 20 cents to 40 cents a bag within less than two weeks, while at the same time there is no such fluctuation in better quality of same grains in the big wholesale markets, it indicates something rotten somewhere and our food officials ought to apply the curb, instead of sitting back and telling us that they have no control over anything but "human food."

We must have greater production of poultry and eggs during the coming year. It may help avert serious famine conditions before the close of 1918. The only way to get this needed increase in production is to deal fairly and justly with the producers.

Attention, Rose Comb Red Breeders!

BREEDERS of Rose Comb Rhode Island Reds are herewith offered an opportunity to contest for three attractive prizes and at the same time help boost their favorite variety. We want articles on "Rose Comb Rhode Island Reds—Why I Breed Them," telling of the merits of the variety; how to overcome any shortcomings they may have; how

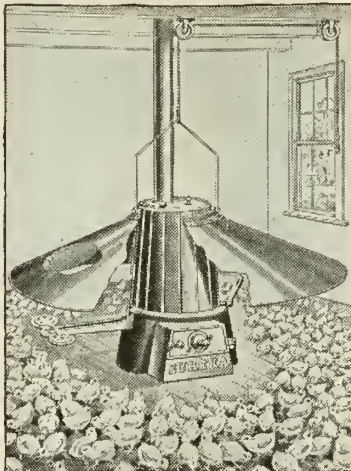
**Stamford
Black Orpingtons**

Exhibition Birds

bred from Madison Square, Boston and New York Palace winners. Get your order in now and insure better selection. A winning at your show will greatly enhance the value of your stock. Write for particulars and prices.

C. S. PURDY STAMFORD, CONN.

Sold On A Money-Back Guarantee



When you buy a Eureka Brooder you run absolutely no risk. My guarantee is honest, with no strings attached to it. You can try this brooder 30 days. If after that time you are not entirely satisfied with it, return it to me—at my expense—and I will refund the purchase price without a quibble. I also pay the freight both ways. Can anything be more fair than that?

The Eureka Colony Brooder

Price \$17.50 and \$21.50

is a brooder that I have absolute confidence in. I am a large manufacturer of stoves and make every part that goes into it. I eliminate useless expense. This brooder has a corrugated fire pot, is self regulating and is made of solid cast iron, burns hard coal or natural gas as desired. I honestly believe it will raise more chicks and better chicks at a lower cost and with less labor than any other brooder on the market. I have testimonials from many users of the Eureka Colony Brooder and will gladly send them, together with full information about the brooder, if you write today requesting same. Don't forget my honest offer, 30 days' free trial without costing you a penny. Write now for descriptive literature. AGENTS WANTED EVERYWHERE.

JAMES R. WOTHERSPOON
240 N. Front St., PHILADELPHIA, PA.

Palmer's Barred Rocks

AGAIN PROVE THEMSELVES

CHAMPIONS SUPREME at the CHICAGO COLISEUM 1917 SHOW

Winning more points for best display than our three closest competitors combined. A record never equaled by any exhibitor at this show. They were also winners for best display at the 1916 show and have been the leading winners for the past twenty-five years, winning more first regular and special ribbons during that time than any three competitors combined. We not only breed practically all our own winners, but furnish winners or show birds to some of the leading breeders to be found all over America. If you want to get some of the best Barred rocks produced, why go to some other breeder and get them indirectly? Write us and get them direct from the firm that is producing them. Mating list ready about January 25, giving prices of our eggs and complete list of our winners.

D. F. PALMER & SON Box 35 Yorkville, Illinois



WARNING! Book Your Orders Early! 10% Does It

BAYVILLE FARMS ANNOUNCEMENT

We solicit the business of the sensible poultry buyer. Those who appreciate facts rather than inflated records will find us the right party to deal with. We have yet to hear of the first customer who lost a penny dealing with us. Our catalog mailed free (stamps appreciated), will quote prices and describe our several classes of stock.

Eggs for Hatching—Day-Old Chicks

S. C. WHITE LEGHORNS—Barron or Domestic—25 high record full Barron Cockerels, bred from Barron pen.
BARRED ROCKS—Parks' Males; Buck's Females,
BAYVILLE FARMS, Bayville, Ocean Co., N. J.
Please mention A. P. J.

Silver Penciled Plymouth Rocks

— BUFF, WHITE and BARRED ROCKS —

Winners at Chicago, New York, Boston, St. Louis, Illinois State Fair, 1917.

Silver Penciled Rock Stock for Breeding and Show purposes, for sale. Eggs from the finest pens in America. \$5.00 and \$3.00 per setting. Any variety. Catalog free.

PETER C. JUNGELS - LEMONT, ILLINOIS

GOLDEN WYANDOTTES—EGGS

I will have eight pens mated, containing such birds as first cock at Madison Square; 1st old pen cock, at Greater Chicago Show, 1917. Also two flocks of utility stock. Book your order early.

J. S. PENNINGTON - Box A - Plainfield, Illinois

Friesner's Single Comb WHITE LEGHORNS

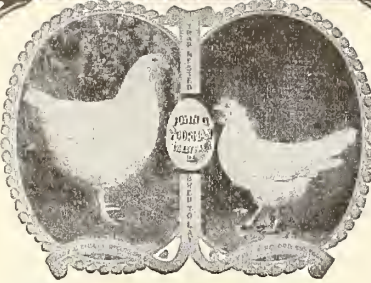
the champions of Ohio. At the National All Leghorn Show, 31 points were won by Ohio Single Comb White Leghorn Breeders, of which 16 points were won by us. 2-4 hen, 2 young pen, 5 old pen. Write if you need stock.

J. W. FRIESNER & SON, Box C, Bremen, Ohio

You Should Send 25c for Our New Poultry Account Book.

POORMAN'S 200 EGG STRAINS

THE
WORLD'S
BEST
LAYERS



TRAP-
NESTED
200 EGG
STRAIN

LADY ALFARATA BUSY BESS
Record 301 Eggs Record 285 Eggs

Stock, Eggs & Baby Chicks

from my Improved Laying Strains of

White and Barred Plymouth Rocks
Rose and Single Comb Reds
White and Buff Orpingtons
S. C. White Leghorns
White Wyandottes

and your careful attention will mean your success. I am offering you Stock, Eggs and Baby Chicks from the same stock that has proven entirely satisfactory to thousands of my customers in this and many foreign countries.

My 18 Years

of practical poultry experience has been incorporated into my bred-to-lay strains in such a manner that brings forth unsolicited hundreds of repeat orders from customers of many years standing. My catalog contains descriptions of my plant by representatives of the leading poultry publications, reports from many of my customers, and also my methods of breeding, care, and management. It is fully illustrated, and very instructive, and will prove to you that my prices on eggs at 15c and 30c each, baby chicks at 25c and 50c each, and breeding and laying stock at \$2.50 and up, are very reasonable.

Start right, by writing for my instructive catalog today. — It has helped others and will undoubtedly help you.

JOHN G. POORMAN, Box 100, Tinley Park, Ill., U. S. A.

CARBO STEEL POSTS



STRONG LIGHT,
SPRINGY STEEL

UNIT SYSTEM cheapest, most durable, sanitary poultry fences.

Bolt together for rigid corner, gate or end posts. Use units singly for line posts or Carbo Drive Posts. First cost of post less than wood. Made any height. Write for Booklet Today.

CARBO STEEL POST CO.
Department C CHICAGO HEIGHTS, ILL.

—HERE IS THE PROOF—

9th YEAR
POINTS THE WAY
START RIGHT
YOU ENDRIGHT

SEE THAT XX?

THAT the claims of the manufacturers of the MAGIC EGG TESTER were true eight years ago, true ever since, true to-day and henceforth. Large Poultry Farms, Hatcheries and individual poultrymen using this Tester for years now verify those claims. They say more than that. They declare there can be no great success without it. Used on eggs before they are set or incubated. Rejects at once unhatchable eggs and shows which eggs gives best layers and best breeding stock, any variety. This Tester needs no light nor expense to use and lasts a life-time. A twelve year old boy can test 200 eggs per hour. Only \$2.00 each and a trial of one year given. Cost refunded if not satisfied. Such a chance to both save and make money comes to a poultry raiser but once in a life-time. Grab it now. Sell your weak eggs. Feed is high, but to use weak eggs adds twice its cost. Stop it by ordering a Magic Egg Tester. Sent at once. Parcel post insured. MAGIC EGG TESTER WORKS, DEPT. B BUFFALO, N. Y., ALSO BRIDGEBURG, CAN.

TO OUR READERS,

Our subscribers are our friends and we use every effort to protect them in every way. We believe that every advertisement in this issue is signed by trustworthy people, and to prove our faith we will make good to our subscribers any loss sustained by virtue of their having purchased fowls or goods from one of our display advertisers.

All we ask is, that in ordering the fowls or goods, you mention to the advertiser that you saw the ad in American Poultry Journal; also that the purchase be made during the month or months in which the ad is inserted, and in case of loss notify us of the fraudulent misrepresentation of the advertiser, giving us full particulars as soon as it occurs. In all cases in writing to advertisers say, "I saw your ad in American Poultry Journal."

to get best results in breeding, both for exhibition quality and utility values; in short, the story of your Reds from shell to showroom, and as a source of food supply. You do not have to be an experienced writer, a good honest letter telling all the facts about your Reds, and information that you believe will help beginners to be successful with them, a plain story of your personal experience will fill the bill.

Hubert Meyer, of Riverview Poultry Farm, Klondike, Mo., offers three prizes for this contest, the articles to be written for AMERICAN POULTRY JOURNAL. He says:

"I will give the following prizes for best article on 'Rose Comb Rhode Island Reds—Why I Breed Them,' you to be the judge, and winning articles to be published in American Poultry Journal.

"First Prize. One pair pedigreed R. C. Rhode Island Reds. The cockerel hatched from an egg from my 'World's Champion Pen 59'—this pen holds the highest official record. The pullet hatched from an egg of hen with a record of 230 eggs in one year. Value of pair, \$35.

"Second Prize. Pedigreed R. C. Red cockerel from 'World's Champion Pen 59.' Value of cockerel, \$20.

"Third Prize. One sitting of eggs from 'World's Champion Pen 59.'"

Articles for this contest may contain from 1,000 to 1,500 words and must be written on one side of paper only. The author's full name and post office address must be stated on first page of manuscript. All articles submitted become the property of AMERICAN POULTRY JOURNAL and none will be returned.

Articles should be addressed to Dr. Prince T. Woods, Lock Box 4, Silver Lake, Massachusetts, and marked "R. I. Red Contest." All articles must reach us not later than February 5, 1918. Winners of contest will be announced in March AMERICAN POULTRY JOURNAL, and prize articles will be published as early as possible.

Here is your opportunity to win one of the three attractive prizes offered and do a good turn for the beautiful and prolific R. C. Reds. Do not delay. Begin your article now.

If you are in need of a book on any subject pertaining to the poultry business, consult the list on page 4. The volumes listed therein are authentic.

**DR. WOODS' NOTES
AND COMMENT**

Hope.

Hope, like the gleaming taper's light,
Adorns and cheers our way;
And still, as darker grows the night,
Emits a brighter ray.
Goldsmith.

We wish a Happy New Year to all our readers and friends. May you all find good cheer in Hope, happiness in Health, and in all your worthy undertakings may you prosper.

Are you explaining the great food value of eggs in your local and newspaper advertising? Are you doing your bit to increase consumption of poultry products? If not, why not? There is plenty of good material for publicity work along these lines in the files of American Poultry Journal for 1917. Make use of the suggestions made therein and help increase the demand for new-laid eggs and for poultry meat. Poultry and eggs ought to be the staple meat food diet of the Nation during 1918.

Two ounces of corn starch, eight ounces of cream of tartar and four ounces of baking soda, are said to make a very good baking powder, and will cost about the same as a good ready-mixed baking powder. These materials are all right in their place, but they have no place as an "egg substitute," even if the manufacturers do advertise "eggless recipes" and claim that baking powder will take the place of eggs in cakes, muffins, pies, and other cookery. There is no "egg substitute" that is fit to take the place of eggs in the human dietary. Use more eggs in cookery, use more eggs—raw, boiled, fried, poached, scrambled, as omelets, as souffles—in the daily menu for the family. There are many, many ways in which eggs can be prepared as food and all are good. Convenience, food value, cleanliness, wholesomeness, and palatability, combined with ease and thoroughness of digestion, considered—when compared with meats at present prices—good, full-meated, well-fed, new-laid eggs would be cheap at ten cents each.

Good sound eggs would be appreciated by the boys in the trenches, they consider eggs worth real money and are even willing to take chances with eggs of "doubtful character." A Massachusetts boy, writing from "somewhere in France," says: "Now and then I get a little extra food and last week I bought two dozen eggs at \$2 a dozen. The first dozen, the less said concerning them the better, and the second I purchased from a Frenchman."

Our former Secretary of State asks: "Whither are we drifting?" The boys in the cantonments and "somewhere in France" sing "I don't know where I'm going but I'm on my way." The whole world seeks the answer. No one can tell how far or where the sparks may fly when a forest fire gets to racing before a gale, but the United States has good material for an abundance of efficient forest rangers. We must win, we can't lose.

**POORMAN'S
200 EGG STRAINS**

**THE
WORLD'S
BEST
LAYERS**

Results

**TRAP-
NESTED
200 EGG
STRAIN**

JEFFERSON BARRACKS, Mo., February 12, 1917—Dear Sir: Please advise me of price on a few day-old chicks. I have a nice bunch of stock raised from the trio I purchased from you last year and wish to keep on improving same. Yours truly, T. A. D.

COOPERSTOWN, N. Y., March 26, 1917—Dear Sir: I am in the market for 200 eggs of White Rocks and as we have had stock from you before which has been very satisfactory, am writing to ask if you can quote me on this amount and advise me earliest possible date you could ship. Yours very truly, E. A. S.

HOQUIAM, WASHINGTON, April 20, 1917—Dear Sir: The 12 Grade A eggs which I purchased from you have proven 100 percent fertile. They are all full of vigor and vitality and it is a pleasure to possess such specimens of beautifully developed chicks. Your careful packing and excellent egg boxes have proved their value in transmitting shipments even this great distance—a chick in every egg—is truly wonderful. Yours truly, G. K.

COVINGTON, KY., April 18, 1917—Dear Sir: Recognizing the quality of your birds, the truthfulness of your statements, common sense dictates to me that I must come to you for a cock bird to improve this year's mating. I feel the utmost confidence in your judgment and know that when I send you \$15 for a good utility bird that I can rest assured that I will receive a bird of superior merit. I have had the opportunity of observing the performance of your birds under very trying circumstances, and the manner in which they shelled out the big white eggs was truly remarkable. This is the stock I am looking for. Trusting I shall receive the bird in good time, I remain, very respectfully, P. G. W.

PRESTON, ONTARIO, CANADA, April 3, 1917—Dear Mr. Poorman: 65 eggs from a flock of 12 White Rocks for one week is not a bad week's work, is it? Well, that is the way my birds are shelling them out and I am proud of my few hens. My little boy came in the house the other day and said, "Daddy, Poorman's chickens are the poor man's friend," and he is right. Will want some more chicks and will forward cash when you inform me of prices. Respectfully yours, W. E. P.

LAKEWOOD, OHIO—Dear Sir: Two years ago I bought twenty-four White Wyandotte chicks of your 50c quality. They have done so well that I desire to have two dozen more. Book the order at once and advise me when you can make delivery. Very truly yours, C. R.

With my Strains and your careful attention, the above results will be YOURS.

JOHN G. POORMAN, Box 100, Tinley Park, Ill., U. S. A.

OUR NEW POULTRYMAN'S ACCOUNT BOOK will help you keep a daily record of your flock for one year. Price 25c. American Poultry Journal, 542 S. Dearborn St., Chicago.



**YOUNG'S STRAIN
S. C. White Leghorns**

I HAVE NO OTHER BREEDS

Acknowledged thruout the world as being the Standard of all the Leghorns of all America, and the leaders of heavy layers. I have hundreds of the grandest exhibition and utility cockerels that I ever raised. They will improve your flock, both in laying and exhibition qualities.

Why not come to headquarters and get the best. Mating list free.

D. W. YOUNG

Box E-12

MONROE, N. Y.

A WONDERFUL VICTORY

AT THE
COLISEUM, CHICAGO, DECEMBER 4-9, 1917



THIS PHOTO
ABSOLUTELY UNRETOUCHED

Male in First Old Pen, Chicago Coliseum, December, 1917

Cocks	Hens	Cockerels	Pullets	Old Pens	Yg. Pens
1	2	1	2	1	2
2	4	4	3	3	4
4	7	5		4	5
5					
6					

I had 58 Leghorns entered; 45 were placed. If you wish exhibition stock or hatching eggs from the very best matings, write me today. I have the stock in quality and in quantity. I guarantee to satisfy my customers. I quote rock-bottom prices. Where else can you buy S. C. White Leghorns of an established strain that win year after year, both in the show-room and in egg-laying contests? Write me your wants today; I will guarantee to fill them.

Experts on My Great Victory

"I have photographed the best specimens of S. C. White Leghorns exhibited at the Coliseum Show for more than ten years, and I feel that I am entirely competent to speak of the quality of the Leghorns that have been exhibited there during that period. This year the class was stronger than at any time in the past. The specimens exhibited by Frank E. Hering—about 60 in number—were easily the best that have ever been exhibited at the Coliseum. His entries were uniformly strong. He has developed a type with splendid station and fine Leghorn lines that delight the eye of the true Leghorn breeder and fancier. Among Leghorn breeders, Mr. Hering must be assigned one of the foremost places."—Louis Stahmer, Artist of the American Poultry Journal.

"I have been a judge in one or another of the Leghorn varieties at the Coliseum, Chicago, for the last seven years. I consider the S. C. White Leghorn class of 1917 the very strongest that has ever been exhibited at the Coliseum. Frank E. Hering has won the Sweepstakes Championship for the third successive year. This year he had seven entries in each of the single classes and six pens. It is the simple truth to say that his Leghorns are considerably stronger in every class this year than ever before, and that is a mighty strong assertion. Mr. Hering has earned the right to be considered in the select class of the very foremost breeders of S. C. White Leghorns in the country."—Herman Rikhoff, A. P. A. Judge.

BUY MY LEGHORNS

AND WIN IN THE
SHOW-ROOM

1,000 head of young stock are now on my 15-acre poultry plant awaiting the pleasure of my customers. Every one of these Leghorns is from a pen headed by a Blue Ribbon Coliseum winner. The foremost judges in the country pronounce my 1918 matings the equal of any they have ever seen. My guarantee to satisfy you is given with every sale. Drop me a line today.

1918 - Hatching Eggs - 1918

Eggs from the finest exhibition S. C. White Leghorn matings:

- Per sitting of 15 eggs . . . \$10.00
- Three sittings for . . . 25.00
- One hundred eggs for . . . 50.00

In case eggs from special pens are designated, add 25% additional.

Eggs from other pens headed by Coliseum Winners—but not Blue Ribbon Males:

- Per sitting of 15 eggs . . . \$ 5.00
- Three sittings for . . . 12.50
- One hundred eggs for . . . 25.00

My Guarantee

I will guarantee eleven fertile eggs out of every fifteen. Shipments are all carefully packed so as to provide against breakage as well as against extremes of weather. I ship to remote points of the country with excellent results.

WRITE FOR FREE MATING LIST TODAY

FRANK E. HERING

Desk B

South Bend, Indiana



A 1917 Chicago Coliseum Blue Ribbon Winner

Dr. Charles McCarthy, of the Food Administration, is quoted in the Chicago Tribune of November 22 as reporting that in drouth-stricken Texas losses have already reached \$400,000,000. Thousands of cattle have starved and most of the sheep in Western Texas are dead or dying. Two million will die unless relief is rushed immediately on a huge scale. Perhaps three-fourths of these two million head of cattle might be saved by quick work.

The losses are largely breeding cows and heifers, needed to produce steers. It is said that the Food Administration was advised concerning these drouth conditions last summer, that the Texas drouth situation was discussed in September at a meeting of the Live Stock Industry Committee at which members of the Department of Agriculture were present. The delay in going to the relief of stricken Texas is not explained. The S. O. S. call for immediate relief in late November, when the losses already reached a tremendous figure, makes things look as if somebody had made a serious blunder. For months now we have heard the incessant urge to conserve red meat, we have had meatless days, we have been urged to produce and consume more poultry products that red meat might be saved. All this time "red meat" has been starving on the hoof in Western Texas, in New Mexico, and in Colorado. Some conservation! If we had shortage before, these losses must mean still greater shortage of necessary red meat. It will certainly be put up to poultrymen to produce a quickly raised substitute; more poultry and more eggs will be needed.

* * *

It is time now to make ready for hatching early chicks. Well brooded in comfortable quarters, February and March hatched chicks make wonderfully rapid growth. Better overhaul the incubating and brooding equipment and see that everything is in readiness for an early start this season.

* * *

If intending to buy incubators and brooders, if your order is not already placed, do not delay longer. Transportation facilities are in bad shape and steadily growing worse. As spring approaches, with embargoes on certain classes of freight and food and munitions having the right of way, freight and express deliveries are likely to be subject to long and troublesome delays. Orders for new equipment should be placed at once.

* * *

Buy baby chicks now. Book your order well ahead of desired date of delivery. It is the only safe way to avoid disappointment. The demand is likely to be greater than the supply.

* * *

We have not bought any charcoal for our poultry for a long time. In clearing up the woodland we have had many brush fires, which supplies a good deal of excellent charcoal, and, as we always burn wood for heating the farm house, we have an abundance of charcoal that can be used for the fowls. Now and then, in extreme cold weather, we burn a little hard coal in the kitchen range overnight, chiefly to keep the water from freezing. The coal ashes are always saved for the poultry. We do not know how much real food value they get out of hard coal ashes, but evidently they find mineral matter that they crave. They will scratch over the ashes and eagerly eat such bits as appeal to them.

* * *

While our birds were hustling for a living on woodland range this summer, they had access to a swampy stretch of black peat land along the pond. A small brook from the spring runs thru the bog. All of the soil about here is fairly rich in iron and this bog soil appears to be especially so. In fact in revolutionary times bog iron was dredged from the bottom of both pond and lake, and at the old anchor forge—from which the pond gets its name—this iron was converted into anchors and chains for the warships and other shipping. There are a number of tons of old iron slag about the place now; big, heavy, clinker-like masses from the ancient iron furnace. All summer, when our fowls were on short rations and big range, we noticed that they would eagerly eat large quantities of the black bog soil. All the birds on the place eat more or less of it when they have access to the lowland, but never before have we seen such eager

STARKS' White Plymouth Rocks Are Winners and Workers

White Rocks strongly appeal to fanciers because of their exquisite beauty; to utility poultrymen because of their demonstrated ability as year-round producers of big, brown eggs and market poultry of superior grade. During our many years of work in developing the Majestic Strain we have kept beauty and business in balance, not sacrificing one for the other. Consequently this perfected strain gives satisfaction under all conditions.

Majestic White Rocks of both sexes win in the show room in the hottest of competition, East and West. They are true Rock type, not yellow-legged Orpingtons. Our champion cock at the last Greater Chicago Show and champion hen at the Chicago Coliseum Show were sensations. In the East we have made notable winnings at the Great Allentown Fair, New York State Fair, etc.

Our last exhibit was at the last Great Hagerstown Fair, the blue ribbon fall show of the country. On an entry of only five hens we won first, second, third, fourth and fifth. A clean sweep.

Majestic White Rocks are just as good for business, too. Bred in the rigorous climate of Northern Wisconsin, they possess unusual hardiness and vigor. Trim and active, close-plumaged, red of eye and yellow of shank, they are a delight to the experienced egg farmer. When dressed for market, their plump, meaty carcasses, free from unsightly pin-feathers and with "yellow trimmings" command top prices.

We will supply you with stock of this character—under an absolute guarantee of satisfaction—at most moderate prices. Every order, regardless of size, receives careful attention and we invariably give big value.

Our new catalog is ready. Better write for copy today.

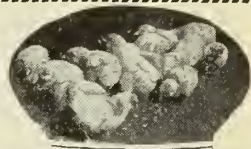
STARKS FARM

M. L. STARKS, Proprietor
GUY DAILY, Manager

Box 100, STARKS, WIS.



Don't Let George Do It All!



Flag waving won't win battles. All the oratory in the world won't feed a cockroach. Action is needed. Soldiers and workers must be fed, and England's experience has taught that poultry and eggs are two of the most valuable supplies for the hospitals. YOU MOST HELP! There is no room for the drone in these strenuous times. There cannot be an overproduction of poultry next year, and the nation

calls upon you to "do your bit" in the way of increasing the supply, which is all the more reason why you should use added care in the selection of your stock.

Our Baby Chicks Are Guaranteed Extra Strong

which means a great deal. It means that they are able to withstand the dangers of shipping and the perils of chickenhood after they have reached their destination. They are hatched from vigorous bred-to-lay Utility Stock by our Fresh Air Method of Incubation.

Order Your Early Chicks Now
Bred-to-lay strain of S. C. White and Brown Leghorns, White and Banded Plymouth Rocks, White Wyandottes and R. C. and S. C. Rhode Island Reds. Write for booklet containing prices and description.

THE ELYRIA HATCHERY CO.

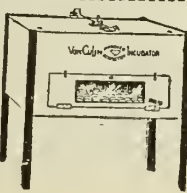
Large Capacity—Quick Shipment
Box A ELYRIA, OHIO

VON CULIN INCUBATOR

\$10 00

No Advance in Price
ABSOLUTELY FIREPROOF
WRITE FOR CATALOGUE

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Dept. 15
126 Liberty St. New York



SCOTT'S S. C. R. I. REDS

WORLD'S CHAMPIONS

Panama-Pacific, Best Display—Chicago Coliseum, Best Display—Greater Chicago Show, Blue Ribbon Winners. Scott's S. C. R. I. Reds are being recognized from coast to coast as the best.

Hatching Eggs

My new mating list explaining all about my pens will be ready February first. Write for it today.

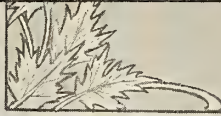
C. P. SCOTT, R. F. D. 36, Box A, PEORIA, ILL.



CHAMPION WYANDOTTE PEN 1916-17 NORTH AMERICAN
EGG-LAYING CONTEST FIVE HENS LAYING 1165 EGGS
WITH HIGH RECORD of 4 BIRDS 294-267-221-220



BRED TO LAY WHITE LEGHORNS
ARE MOTHERS OF THESE COCKERELS



CHAMPION OF ALL WHITE LEGHORNS RECORD 297 EGGS



"LIBERTY BELLE" 294 EGGS CHAMPION WYANDOTTE of the WORLD
"LIBERTY LADY" 267 EGGS NORTH AMERICAN LAYING CONTEST



OFFICIAL RECORD 265 EGGS



NORTH AMERICAN CONTEST PRIZE WINNING CHAMPION
WHITE LEGHORNS RECORDS: 250-224-242-206-192 TOTAL 1109



OFFICIAL RECORD 253 EGGS

THE
PENNSYLVANIA
POULTRY FARM
BRED TO LAY POULTRY
LANCASTER, PA.

Fact

Fact

World's
 "Champion Layers"
 ENGLISH 200-Egg STRAIN

S. C. WHITE LEGHORNS WHITE WYANDOTTES
 S. C. RHODE ISLAND REDS BUFF ORPINGTONS



Trap
 Nested
 Layers

Bred
 To Lay
 200 Eggs
 Per Year



COMPETITION WINNERS

The five Champion Wyandotte hens that won First Prize and three Silver cups, in The North American Egg Laying Competition, 1916-1917, under government supervision. This pen produced 1165 eggs, having the following high individual records; 294-267-221-220 eggs. Our Champion Wyandotte of the World, "Liberty Belle," won first prize and cup, laid 294 eggs. Her sister laid 267 eggs and won third prize and cup, 500 hens competing. Another proof of our success in breeding 200-egg layers.

Other
 Competition
 Winnings

We Supply
 EGGS

for Hatching S.C.R.I. Red, Off. Record, 251 Eggs

Buff Orpington, Record, 272 Eggs Leghorns — Highest Award N. American Egg-Laying Contest, five hens laying 1139 eggs, 100 pens competing. English cockerel bred hen with official average of 314 eggs. REDS—Highest Award in their class, N. American Contest, five hens laying 1043 eggs, 209 average. Highest official Red record known. White Wyandottes—Missouri Contest, our ten laid 2006 eggs, one laying 265 eggs.



Baby Chicks
 Early Hatched Cockerels
 Breeding Stock

at very moderate prices. And our customers know what they are getting because we have demonstrated the quality of our stock through consistent winnings in the great public laying competitions.

Champion Wyandotte of the WORLD
 Official Record, 294 Eggs

If you want Leghorns and Wyandottes that lay, if official egg-records mean anything to you, you should secure our strain.

Our Reds, Wyandottes and Orpingtons are also wonderful layers. We have many individuals which hold remarkable official records and this brood-to-lay blood is strong in every bird in our great flocks.

CHAMPION WHITE LEGHORN
 Record, 297 Eggs

THE WORKER

\$131⁰⁰₌

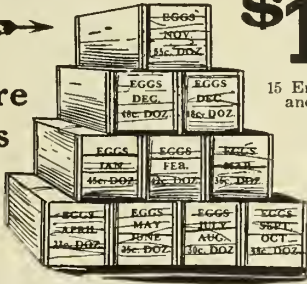
15 English hens in Missouri and North American contest laid 3145 eggs, an egg yield value of \$131.00.

THE SLACKER
 \$21⁰⁰₌

THIS—OR THIS →

Compare
 Results

U. S. Statistics show average farm hen lays 80 eggs, 15 hens having an egg yield value of \$21.00.



Write today for copy of "THE STORY OF THE 200-EGG HEN" which contains pictures and records of our competition winners, plans of trap-nest, feeding formulas and other valuable information which will help you make your flock more productive and profitable. PRICE, 10 CENTS, deducted from first order.

PENNA. POULTRY FARM

Box "A"

LANCASTER, PA.



Fact



51 Prizes Madison Square

Rose and Single Comb

Brown Leghorns

Records, 200 to 266 eggs. Big birds, large eggs.

Rose Comb Whites. 244 egg line. Eggs large as Single Comb Whites.

Single Comb Whites. 288 egg line, large white birds, large eggs.

Barred Rocks. 270 egg line.

S. C. Reds. 243 egg line, fine large birds and large eggs.

White Wyandottes. 245 and Silver cup. Eggs \$2 to \$7 for 15; \$10 per 100. Catalog.

W. W. Kulp, Box 70, Pottstown, Pa.

WARNOCK'S

S. C. Brown Leghorns

Winners at the Chicago Coliseum Show, Dec., 1917

2nd cock, 5th ekl., 3rd pullet, 5th hen on exhibition stock. 1st pullet, 2nd hen, 2nd pen, 2nd pen on Dark Brown Leghorns, 2nd ekl. on Light Brown. Silver cup for 3rd best display.

Stock

Choice exhibition and breeding cockerels and pullets for sale. My 25 years' experience in breeding Brown Leghorns are back of them. Send for booklet.

W. G. WARNOCK, Geneseo, Ill.



Nobility White ROCKS

Let us sell you show birds at reasonable prices. We produce all our own show birds and they have the winning habit.

At one of the biggest shows ever cooped at Cleveland, January, 1917, we won 1st and 2d Cockerel, 2d Cock,

3d Hen and 2d Pullet. At Ohio State Fair in August, 1917, 1st Cock, 1st Hen, 1st Cklr. and 2d Pullet. Special values in good breeding males and females. PIERCE & CUSHION, WELLINGTON, OHIO

Eggs—Baby Chicks

Fogg's S. C. White Leghorns. Bred to Lay. We have the finest lot of yearling breeders we have ever owned. Book your orders now. N. V. FOGG, Box R, Mt. Sterling, Ky.



Poultry Fountain

and FEEDER only 45c

Also a Non-Freeze Fountain \$1.60. Leg Bands, 10 for 15c, 25 for 25c, 100 for 60c. Bone and Clover Cutters, Dry Mash Hopper, Shell Mill and Corn Sheller. FREE CATALOGUE.

H. A. STEVENS, 146 E. Main St., Batavia, Ill.

Baby CHIX

Breeding Cocks, Hens, Cockerels, STOCK Pullets. Free Catalog.

Morse's White Leghorn Farm, Belding, Michigan



BANTAMS

America's Finest Bantams, 40 varieties. Game and Ornamental. Shipped on approval. Winners at the largest shows. Stock for sale. Prices reasonable. Cat. 2c. Unbeatable Louise Ointment and Diarrhea Formulas, both \$1. F. C. WILBERT & CO., Grand Rapids, Mich.

consumption of soil. That it was good for them, or at least did not hurt them any, is attested by the wonderfully fine condition in which they came thru a rapid molt and the excellence of their fall egg yield—an egg yield by yearling fowl that could not be bettered by early hatched pullets.

It is customary for small grain dealers, in this part of the country, to fix a price on their supply of grain when it is received and to maintain that price until a new lot arrives. This sometimes results in a wide and singular difference in prices. There are two dealers in the same town, another four miles away and another about six miles distant from the town. We got their prices on whole corn on December 6, and these prices are interesting, to say the least. Of the two in the same town, one charges \$5.14 per cwt., the other \$4.80 per cwt.; the other dealers get still higher prices of \$5.20 and \$5.25 respectively. A difference in price of 45 cents a bag on whole corn in a district, which is practically the same town so far as area is concerned, is some difference. There is ample opportunity for work by an effective co-operative organization of poultry keepers.

There is hope ahead! Congressman Alvan T. Fuller, of Massachusetts, introducing a bill making salaries of members of Congress subject to the war tax on incomes, said:

"No congressman who votes war taxes upon the people and then takes unto himself immunity therefrom is fit to sit in a hog caucus at the stock yards, and he ought to be driven from public life."

The war tax bill as originally passed exempted such salaries from taxation and it is stated that the bill was so worded that "probably nine-tenths of the members did not know the bill they were passing contained special favoritism to themselves."

Poultrymen in the East are suffering from the raids of a pest comparatively new to this section. Large numbers of goshawks, a large and particularly audacious hen hawk, have appeared in New England and are preying upon poultry. A Bolton, Mass., fancier reports:

"This week my son shot a goshawk less than a hundred feet from the house, among trees, where no hawk has ever before troubled my chickens; just as it was flying off with a full-grown pullet in its talons. The hawk measured two feet from the end of its bill to the tip of its tail and had a wing spread of three feet and eight inches."

A number of these goshawks put in an appearance in the woods about the Anchorage Farm recently and have created a great deal of disturbance among a flock of White Rock pullets running in a pine grove. As yet we have not lost any of the pullets, neither have we been successful in shooting one of these bold and clever birds of prey. These hawks are larger, stronger and more vicious and daring than any we have seen in this section for some time. Gunners have been urged to make war on this pest.

Never before in our experience have we had better results from yearling hens than during November and December, 1917. The birds came thru the molt quickly as clean and bright as pullets. The egg yield has been fine. The yearling hens are equaling the pullets in egg production and surpassing them in size and quality of the product. The eggs are large, full-meated, heavy and handsome. Six dozen just as they came from the nests weighed exactly twelve pounds net, an average of 32 ounces to the dozen. We attribute these excellent results in part to whole corn, oats and mash feeding and partly to the way we made them work for a living on woodland range last summer, as described on pages 1143-45 December American Poultry Journal. There is no difficulty in securing good production. The big problem, when one's flock is not sufficiently large to make it pay to ship direct to the large city twice a week, is to sell the eggs without too great selling cost. Consumers simply will not buy eggs in quantity when the price is around 75 cents a dozen.

Some enterprising "expert" has recommended that fowls be given unrestricted range in order to save feed, and that where the owner has not land enough of his own, he let his flock have the range of the immediate neighborhood. That "expert" never kept hens himself in any part of the country that we have lived in or he would know better. Foraging hens are likely to create more neighborhood disturbance than all the rest of the disagreements put together. The courts are forever settling neighborhood rows started by some enterprising biddy, who went foraging in the neighbor's garden when she had plenty of work to attend to at home. One has trouble enough keeping the fowls and chickens on the farm from making raids on the home garden, berry patch and flower beds, without inviting

ROCKDALE White Plymouth Rocks

Better Bred for 17 years—By Us

Bred for

Eggs, Meat and Show Points

Our birds win at the leading shows in both our and customers' hands.

Cockerels—Pullets

vigorous birds of excellent quality. They will put the pay streak into any flock. The prices are right and satisfaction always guaranteed.

DEYOE'S Station 1 DODGEVILLE, WIS.

R. C. REDS

220

AVERAGE

Official Record

Meyer's

FAMOUS R. C. REDS

Our pen No. 59 in the 1915-16 Mo. National Egg-Laying Contest has

The Highest Record Ever Made by a pen of Reds in any laying contest. Our pen No. 22 in the 1916-17 American Laying Contest was first prize pen. This shows that Meyer's Reds are the leaders. They win first year after year in competition with the best blood in this country. If you wish the best, write us your wants.

RIVERVIEW POULTRY FARM
Hubert Meyer, Prop. Klondike, Mo.

Whitecrest Farm

White Wyandottes S. C. White Leghorns

again winners at Cleveland. Won A. P. A. medal for best cockerel in show, 3 firsts on Wyandottes and 3 firsts on Leghorns. Our winnings to date are 18 silver cups, 14 times winners of best display at Cleveland.

Circular Free.

H. C. & C. W. SIXT West Park, Ohio

SINGLE COMB

White Leghorns

Shipped on approval. Bred for the past 17 years. You could rest assured of receiving satisfaction and reasonable prices. Your interests are ours and we guarantee to please you. Get our literature.

PURITAN POULTRY FARM, Newark Road, ZANESVILLE, OHIO

SINGLE COMB

White Orpingtons

First prize winners at Wis. State Fair and Milwaukee National Shows. First class utility and show stock for sale. Prices reasonable; satisfaction guaranteed. Try us.

NOVAK POULTRY FARM R. 1 RACINE, WIS.

Origin and History of All Breeds of Poultry

Illustrated with reproductions of paintings of 198 Birds in Natural Colors.

This book tells where the breeds originated, how to mate to get best results, etc. Should be in every poultryman's library. A work of art. Price \$1.00.

AMERICAN POULTRY JOURNAL PUB. CO.
542 South Dearborn Street Chicago, Illinois

PARTRIDGE ROCK

show and breeding stock from our winners at Detroit, San Francisco, Chicago and elsewhere. Prices to please. No Sunday business.

MEADOWLAWN FARM Dept. C. D. SAND CREEK, MICH.

a riot by turning a town flock loose on the neighbors. Then, too, there would be small comfort in having your fine Standardbred hen flirting around the corner with some gay cockerel of another variety, or some mongrel cock from a stable dunghill. Keep the birds yarded or on restricted range. Do not let your fowls, or other animals, annoy the neighbors. There will be plenty of neurasthenic folks to complain of crowing cocks and cackling hens, without turning the flock loose to hunt for trouble.

The request has been made that no more wheat be used for poultry feeding. "Only damaged wheat will be available for poultry feed" besides the "coarser grains." Without meaning to be disagreeable about the "I told you so," we called attention to this some months ago in reporting the poultry situation in England, where the feeding of all wheat, except "tail corn" and frosted wheat, is prohibited by law. We pointed out then that, in this country, we appeared to be following pretty closely the British rules for food production and control, even to the point of making similar mistakes. In most sections of the country going without wheat for poultry feed will not be any great hardship. There should be plenty of other grain and some wheat screenings and damaged wheat that is not too badly damaged for poultry feeding.

With corn and oats and a reasonable allowance of wheat bran and middlings, we will be able to do very well if the price does not hold too high. Most of us have been doing without wheat for poultry feeding for quite a long time. A little is very welcome for small chick feeding, but it is not absolutely necessary. Fine cracked corn, crushed oats and a supply of bran, middlings and fish meal will make a very good small chick ration. Where corn cannot be had, buckwheat will help out, tho it is not a corn substitute—in fact, we do not know of any good corn substitute. Adult fowls will get along very comfortably on a scratch grain mixture of corn and oats, bushel for bushel, and a good mash containing a fair amount of protein. The chief drawback to corn, as an all around feed, is its low protein content and its tendency to produce fat. Feeding plenty of greens, vegetables, and with bran, middlings and fish meal in the mash, enough to boost the protein content of the ration, one can get very satisfactory results with corn. We had much rather do without wheat than do without corn for poultry feeding.

Animal food for poultry feeding promises to be a difficult problem. For about a dozen years now, beef scrap has been gradually growing more difficult to obtain in good quality and sufficient quantity. There appears to be a shortage of good material for making scrap. Whatever the reason may be for shortage, it is not easy to buy and is high in price. Small packages for back-lot use are more easily obtainable than large quantities for big flocks. There was promise of a better and bigger supply of fish scrap and fish meal, but really good fish scrap or meal continues to be rather short in supply. There is an abundance of waste fish, but there seems to be a lack of profitable opportunity to turn this fish into manufactured material of which fish scrap and fish meal are the by-products. If a good fish meal or fine fish scrap of wholesome quality could be manufactured to retail to poultrymen at not over \$50 per ton it would prove a most welcome source of animal protein for poultry feeding.

In response to requests for good mash mixtures to be used when corn and oats are the only hard grains fed, we give the following:

- No. 1.
- Coarse wheat bran.....100 lbs.
 - White flour middlings.....100 lbs.
 - Corn meal100 lbs.
 - Ground oats100 lbs.
 - Gluten feed100 lbs.
 - Beef scraps (fine)..... 50 lbs.
 - Fish meal 50 lbs.
 - Cut alfalfa or clover..... 50 lbs.
- No. 2.
- Wheat bran100 lbs.
 - Flour middlings100 lbs.
 - Corn meal100 lbs.
 - Ground oats100 lbs.
 - Fish meal 70 lbs.

With either mash a good daily allowance of green food, vegetables, or sprouted oats should be fed. With the No. 1 mash the fowls consume considerably less green food than when fed No. 2 mash. If a good quality of fish meal is used there is no danger of tainting the eggs. Growing chicks one month old or older will do well on either mash. We usually feed such mashes dry to adult stock, but they may be fed either dry or moist.

Several new customers have commented on the large size, full meatedness, fine quality

Laying right through

1918		January					1918	
SUN	MON	TU	WED	THU	FRI	SAT		
					4	5		
6						12		
13						19		
20						26		
27	28	29	30				Full Moon 24th	



Anconas do!

They are great
Winter Layers
of Big white eggs

Sheppard's Famous Anconas are the greatest winter layers in the world. And if you want layers that will do business briskly all thru January as well as the other winter months you then should have

Sheppard's Famous Anconas

Page after page in my book "How to Gain Money and Prizes" proves this fact beyond a shadow of question. My birds hold

World's Record for Single Bird, 331

World's Flock Laying Record
256 Average

Anconas are beautiful, hardy, tame birds—with vitality and perseverance to lay steadily winter and summer. Write for free book now.

Win at the Shows

Put Anconas in your exhibition coops and you'll *take out* prizes. A number of very choice birds, show winners, ready for immediate shipment. Drop me a line at once. Or, wire your requirements.

H. CECIL SHEPPARD
BEREA, OHIO

A BILLION EXTRA CHICKS NEEDED

U. S. Government asks every farmer to have flock of at least 100 hens. Present average is only 40 hens. 60 more hens per farm means 1,000,000,000 extra chicks needed.

Greatest Money-Making Opportunity in History of Poultry Industry

The U. S. Department of Agriculture appeals for 2½ times the usual volume of poultry products to help make up for the big shortage in beef and pork. The demand for chicks next Spring will be simply enormous, for the 1,000,000,000 chicks to meet the Government's program will be that many more than usual! Why not do your share? Help the farmers get the chicks!

Blue Hen Mammoth Incubators

1. Hatch as high as 87% and 90% of all eggs set.
2. Turn all the eggs in from 5 to 10 seconds.
3. Require only 1/10 of the usual time and work.
4. Give you big capacity in a small space.
5. Double automatic heat regulation.
6. Seven other big, money-making features.

Write for New Free Book, "Hatching and Selling Day Old Chicks"

Let us send you our fine new catalog, telling all about Day Old Chick business, and how little time and work it takes a Blue Hen operator to secure big profit-making hatches, if you will send a little sketch of your cellar, indicating what capacity mammoth you are interested in—we will send you some helpful suggestions along with the catalog.

Owner Agents Wanted, Write Today

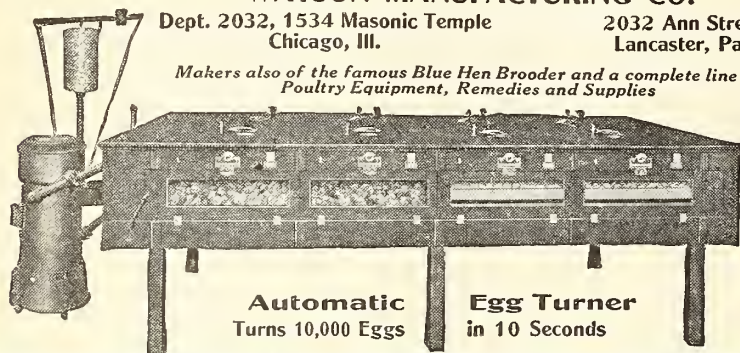
Special Offer to First Owner in Each Locality

WATSON MANUFACTURING CO.

Dept. 2032, 1534 Masonic Temple
Chicago, Ill.

2032 Ann Street
Lancaster, Pa.

Makers also of the famous Blue Hen Brooder and a complete line of Poultry Equipment, Remedies and Supplies



Automatic
Turns 10,000 Eggs

Egg Turner
in 10 Seconds

Sensational Wins in Speckled Sussex

At New York State Fair, Syracuse, N. Y.

Cocks	1st and 3rd	Cockerels	1st, 2nd and 3rd
Pullets	1st, 2nd and 3rd	Pens	1st and 2nd
Hens	3rd and 4th		Best Display

At the Great Hagerstown Fair

Cocks	1st and 2nd	Cockerels	1st, 2nd, 3rd and 4th
Hens	1st, 2nd and 3rd	Old Pen	1st
Pullets	1st, 2nd, 3rd and 4th	Young Pens	1st and 2nd

We have 100 cockerels and pullets of exhibition quality for sale at reasonable prices. Be patriotic; start raising poultry. The Speckled Sussex is the breed to supply your need. Write for catalog and prices.

MORAIN FARM, Poultry Dept. R. R. 16, Dayton, Ohio

and taste of eggs obtained at our farm and remarked on the rich colored "upstanding" yolks. There is a reason. Our hens are all healthy, vigorous stock, well housed and well fed. All eggs are sold twice a week and are therefore "new-laid." We sell direct to consumers only the selected and graded eggs of uniform size and color. All eggs produced are not of "selected" grade, tho we have very few "cull" eggs. All off-shape eggs, soiled eggs, checks, or small eggs are disposed of to trade that calls for lower priced eggs. We never wash an egg that is to be sold, it renders the egg likely to spoil quickly. Heavy feeding with plenty of good grain and mash is the only way first quality, heavy, full meated eggs can be produced. Eggs from hens that are fed on swill, too much "table waste," overmuch vegetable food and moist sloppy mash, are apt to be in the same class with so-called "grass eggs" from hens that are farm and dung heap scavengers. Such eggs are watery and have flabby yolks that flatten, wrinkle and break easily. An egg with a flabby yolk does not stand transportation well and it does not store or keep well. It is also lacking in food value when compared with the well-fed, full-meated egg. One good, large egg from a well-fed hen is equal to two small or watery eggs. If you doubt it, ask any experienced baker.

We find that when eggs get above 50 cents a dozen there is a great deal of difficulty in dealing direct with the consumer. Most consumers will not buy a sufficient number of eggs at one time. They want to run a charge account and have the eggs delivered. They are very apt to call for only three to six eggs at one time and seldom take more than one dozen. When the price gets above 70 cents a dozen they are more exacting in their demands and orders are less frequent and less regular. Where producer must make delivery by parcel post we do not believe he can afford to ship less than three or four dozen eggs at one time. He must charge enough to cover the added cost of packing and delivery. In supplying customers in nearby towns it is better to ship at least 12 to 15 dozen at one time to some responsible person who will distribute them in his neighborhood. House to house delivery is expensive and should not be attempted unless customers are willing to pay for the service. The summer time automobile trade is the most satisfactory, the customer takes the eggs at the farm and seldom quibbles about the price if the eggs are well selected, neatly packed in cartons, and present an attractive appearance. Selling to small retailers, especially when prices are near top mark, is seldom satisfactory, as a half case or full case usually loads them up with all they can sell for a couple of weeks. Consumers have yet to learn the real value of new-laid eggs of quality and to appreciate the service rendered by practical egg farmers. Summer residents and automobilists are the least exacting in their demands and make the most satisfactory customers. Shipping to city retailers calls for regular shipments and it is best to ship at least two cases—60 dozen—at one time. Two cases will travel almost as cheaply as one. It is always well to candle selected eggs—using an electric light, a small flash light will serve—as now and then, even the best of fowls may produce an egg stained white or with noticeable blood clots; consumers do not understand the natural cause of such defects and assume that the egg is old or spoiled. Even if you have supplied the finest quality of eggs to a customer for a year or more, one such egg is sufficient to upst his confidence in your product and deflect his trade to some other producer. If he bought the eggs at a retail grocery he might not give the matter a second thought. That is a peculiar trait of human nature, which must be reckoned with when producer deals direct with the consumer. Many things may be forgiven a retail dealer, but the producer is an object of suspicion, seldom forgiven, and not permitted to explain. Therefore be sure of your product before you label it "selected" quality.

Not so very long ago one of our esteemed contemporaries was burning up its pages with sizzling condemnation of the baby chick industry and spilling much good ink in ridicule of and attacks upon our campaign for "un-retouched photographs" of Standardbred fowl. We are pleased to note that the December issue of this same publication is loaded to the guards with boosts for the baby chick business and the International Baby Chick Association, as well as having many of its pages attractively illustrated with reproductions from "un-retouched photographs," many of which were made by American Poultry Journal's staff artist. Everything must stand its trial in the court of Time, and Time's verdict is for truth and right.

The new campaign now being so vigorously pushed against wet-chilled, ice-packed, so-called "water soaked" poultry, may seem all

right, but is it? What will be the natural result if poulterers are forbidden to chill dressed poultry in ice water, or to ship it packed in ice? Most dressed poultry from the farm, and from the poultry plant, is dressed, chilled and shipped in mild or warm weather. It should be plain enough to anyone that the individual poultryman cannot afford to build and maintain a refrigerating plant with a dry chilling room, nor can he, as a rule, get refrigerator car service for the shipment of his product to market.

The poultryman, except in very cold weather, chills his dressed poultry as quickly as possible in ice water, then hangs it up to dry and ships it dry for short distance shipments. In extremely hot weather, or for long shipments in mild weather, the poultry must be packed in ice, unless refrigerator car service is available, which is seldom.

If the campaign against wet-chilled, ice-packed poultry is carried to the point of prohibiting such methods—as now seems likely—the obvious result is that the poultryman will have to sell his fowls alive to the large poultry killing and dressing establishments. Here he will lose heavily from shrinkage, short weight, and other tricks of the trade. Most of these big poultry killing and dressing establishments figure a margin of from 10 cents to 15 cents a pound live weight to cover their expenses and insure their profits. If they buy fowls at say 15 cents per pound net live weight, they get from 25 cents to 30 cents a pound for such fowls when dressed. Live poultry is seldom weighed immediately on arrival, nor is it fed, but if it arrives in the morning is allowed to sit around until late afternoon before weighing. As the fowls have been on the road for several hours at least, this usually means that the birds are starved for from 12 to 24 hours before weighing. It is on such weights that the returns to the shipper or poultryman are made and the loss from shrinkage is considerable. The gain or advantage is all on the side of the big dressing establishment. The loss all comes out of the poultryman. Forbidding wet-chilling and ice packing will act solely against the poultryman and shipper. Instead of being able to get all the money there is in his poultry meat by selling at dressed poultry prices, he will have to sell his poultry alive for whatever he can get, which will usually be from 10 to 15 cents a pound less than he would receive for the dressed product.

Dressed poultry has been ice-water chilled for many years, and, when properly killed and dry picked, the results have always been good. It has been claimed that water-chilled poultry will not keep as long in storage as dry chilled and that it "soaks up water." To most of us poultry seems to "keep" in storage plenty long enough. As to "soaking up water," anyone who has seen big vats of frozen poultry thawing out in water, before being put on sale, will believe that there is more danger of "water soaking" here.

We have wet-chilled poultry, whenever we had any to prepare for market, ever since 1884, and we have never seen any bad results from the practice. We always wet-chill our dressed poultry in mild weather, and usually in very cold weather, as it is difficult to dry chill poultry properly under farm conditions, without freezing it. We do not care for or want our poultry meat frozen. As soon as the fowls are dry picked—care having been taken not to break the skin—the feet are washed clean, the blood is removed from mouth and throat, head washed clean, and the carcass is placed in a tub or barrel of ice water to chill quickly. When thoroughly chilled the dressed fowl is hung in a cool place to dry. Shipments or deliveries are made dry, unless the haul is one that will last more than three or four hours. For long distance shipments in warm or hot weather we take the dressed poultry directly from the ice water and pack it in clean barrels of cracked pure ice.

Properly dressed poultry wet chilled and then hung to dry, does not water soak. The carcass does not take up the ice water used for chilling. There is nothing unclean or unsanitary about the process when the work is properly done. In fact dry-picked, dry-chilled poultry is far less clean than the properly wet-chilled. Sold for consumption as "fresh-killed" meat, or for reasonable storage, as it should be sold, there cannot be any valid objection to it.

To test the alleged "water soaked" bogey, we dry picked and dry chilled several chickens in November and December, and at the same time we wet-chilled others. We weighed them before chilling and after. The shrinkage in the wet-chilled was in precisely the same proportion as that of the dry-chilled poultry so far as we could see. The wet-chilled carcasses did not "soak up" a sufficient amount of water to move the balance arm on a nicely adjusted standard scale.

This campaign against "wet-chilled" poultry will bear watching and investigation by poultrymen. It is all in the favor of the big killing and dressing establishments and wholly against the best interests of individual poul-

Are You Going To Take Advantage Of It?

The U. S. Government asks that the output of the poultry industry be doubled for 1918 and that everybody eat eggs and poultry to help relieve the big shortage of beef and pork. This will mean the biggest demand for poultry products that the world has ever known!

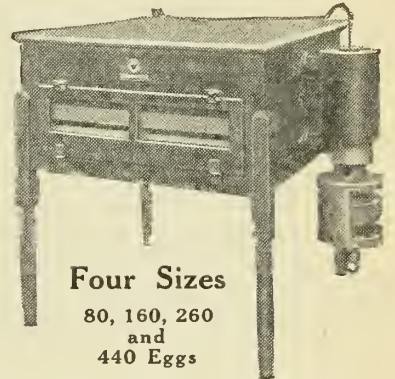
To hatch and raise your share of the enormous quantity of additional poultry required, you will probably need additional equipment.

Before you buy any new Incubators or Brooders, let us send you our free booklet

"Making Poultry Pay"

This book not only shows how strong and durable Blue Hen Incubators are made—the heavy insulation—the thick outside case with dovetail construction—why the Blue Hen is an all season hatcher—and all about Blue Hen Portable Hovers.

It also contains many helpful suggestions for making money with poultry, and explains why



Four Sizes

80, 160, 260
and
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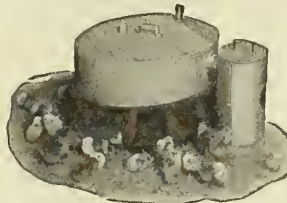
the demand for poultry products will grow—enormously—year after year for years to come.

Don't Lose the Chicks!

Hatching chicks is only the first step. Next you will want good brooders.

For a flock of 50 to 100 chicks use a Blue Hen Portable Hover, for larger flocks, a Blue Hen Coal Brooder.

Blue Hen Incubators and Brooders have proved a money making combination for others! Why not for you, too? Don't wait till the last minute. Mail the coupon today.



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WORLD'S BEST

Single Comb Black Minorcas

T. A. FAULDS, Prop., LONDON, ONT.

Always please their customers. Please read the following testimonial. I send the good ones on the long trip as well as the short:

Mr. T. A. Faulds, London, Ont. Goven, Sask., Jan. 19, 1917.
Dear Sir: The birds are doing fine under the circumstances. They have been at four shows since December 8th, and that is hard on them. Following is a complete list of my wins with the birds I got from you: Moose Jaw, Dec. 1916, 1st cock, 1st hen, 1st cockerel, 1st pullet; Goven, Sask., 1st cock, 1st hen, 2nd pullet, cockerel got frosted a little and was not shown; Saskatoon Provincial Show, 1st cock, 1st hen, 4th pullet, cockerel not shown; Strasburg, Sask., 1st hen, 2nd cockerel, 1st pullet. The cockerel got set back on account of being frosted.
Yours very truly,
J. H. WADE.

Price of the Above Four Birds was \$50.00

T. A. FAULDS : LONDON, ONTARIO, CANADA

Single Comb Black and Buff Orpingtons

won at the late Chicago Coliseum Show on Blacks 2nd cock, 5th hen, 4th cockerel, 3rd pullet and 2nd pen. Also won at the Iowa State Show on both Blacks and Buffs 6 firsts, 2 seconds and 1 fourth on singles and pens. If you want Orpingtons that win at the big shows and have the laying qualities, write me your wants. I have a grand lot of stock for sale.

O. M. BROWN Box G SLATER, IOWA

Stop Losing Chicks!

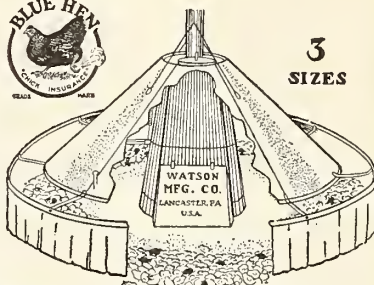
The loss of chicks thru poor brooding equipment every year is enormous. With poultry and eggs at top-notch prices—and going higher—can you afford to take any chances—to risk big chick losses this season?

U.S. Government is calling upon you to raise more poultry. Don't let faulty brooder equipment rob you of profits and patriotism. Get the Blue Hen and *Raise the Chicks*.

Big Blue Hen Colony Brooder

Will Raise and Save Your Chicks

Plenty of heat for coldest weather. Fire can't burn up too high nor down too low. Curtain arrangement—exclusive Blue Hen feature—gives chicks fresh air but prevents floor draft. Broods 100 to 1000 chicks—requires only a few minutes time a day. Many other features.



Book FREE

Don't buy any Brooder until you first get the facts about the Blue Hen. Send for Brooder Book—today!

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2026 Ann St., LANCASTER, PA.

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Prices slightly higher west of Mississippi River. Curtain and thermometer furnished as part of regular equipment on No. 44 and 45. No. 40 has neither curtain nor thermometer.

Big Size Big Value
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Good Territory Open for Agents

trymen and small shippers who dress their poultry for market.

John W. Dwinell, of Danvers, Mass., is feeding the following war mash to his Rhode Island Reds and says the hens eat it greedily:

	Per 100 lbs.
300 lbs. Schumacher stock feed.....	\$2.90
100 lbs. gluten feed.....	2.65
100 lbs. Canada bran (white).....	2.35
50 lbs. of A. A. C. Co. beef scraps.....	5.00

This mixture costs him a little over \$2.90 per 100 lbs. By adding 25 pounds of fine charcoal and 12 quarts of dried beet pulp, the mash costs a little less than \$3 per 100 pounds. The mash he had been using cost \$3.75 per 100 pounds and he believes that the new mash is giving just as good results at an attractive saving. Mr. Dwinell asks for a formula for a good cheap scratch grain mixture. We have not found anything better than the one we have been using for some time: Ten bushels of whole corn mixed with ten bushels of heavy oats. This is a mixture containing 560 pounds of corn and 320 pounds of oats. At early December prices of \$2.57 per bushel for corn and 90 cents per bushel for oats, this scratch grain cost us about \$3.96 per 100 pounds. We believe that fine cut clover or alfalfa meal would be better than dried beet pulp in the mash mixture given above.

A Maryland fancier writes us: "It may be all right to work the plan for forced layers, but for my breeders I think it best to let nature take its course in order to obtain hatchability in eggs later on. Out of 300 hens for breeders I got only 8 eggs yesterday (December 7). I would not dare to force them. By the way corn is advancing some here. It was \$5.50, but now is \$6. Last year corn opened at \$3, but this year at \$6. "Do your bit and I'll do mine" is all fine to write about, but I am wondering how it is going to work out for all concerned. Personally I am looking forward to a good season. Experiment stations say it takes from about 20 to 25 pounds less feed to keep a hen than I have ever found. Mine eat nearer 100 pounds of grain and mash than the 55 to 74 pounds mentioned in station reports."

Wallace's Farmer says editorially, in issue of December 7:

"At a meeting of the agricultural college and experiment station representatives at Washington recently, both Secretary of Agriculture Houston and Food Administrator Hoover made addresses. Reading through the lines it seems that these two departments of the Government are getting closer together in the work of production and distribution.

"This is greatly to be desired. There ought to be the closest co-ordination. In fact, it seems to us that they should be under one head, if such a head could be found big enough to do the business. Production and prices are inseparable. It is an absurd and hopeless situation when one arm of the Government is fixing prices of farm products and another arm undertaking to stimulate production, and the two are working independently.

"Agricultural conditions are becoming more and more serious. The terrible disappointment of this year's corn crop has greatly aggravated the situation. It is time for the people who are in control to get together and map out a systematic plan for increasing production by assuring the farmer that he will get what President Wilson has defined as a just price for the things he produces."

I firmly believe that greatly increased poultry and egg production is a very vital national necessity during the coming 1918 season. There is abundant evidence to show that the world may have to face a serious meat shortage, possibly other food shortage, amounting to famine, within the coming 1918-1919 winter season. It is important that every citizen,

WANTED

2,000 Ancona Pullets

Must be good, vigorous stock, suitable for egg farm. *Sheppard Strain preferred*. Will buy in large or small lots. Please state how many you can supply and price. Also size, quality and age and whether rose or single comb.

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WYCKOFF'S S. C. WHITE LEGHORNS

Acknowledged Everywhere the World's Greatest Laying Strain—Unequaled in Standard Qualities

Remember that we are the originators and for 35 years specialty breeders of the justly celebrated WYCKOFF Strain of S. C. White Leghorns, the most profitable strain of poultry in America today. Place your orders at headquarters and make no mistake.

Eggs for Hatching

from the most carefully selected matings. Our breeding pens this season are made up with the finest lot of stock that we have ever owned. For size, strength, vigor and laying qualities, together with the true Leghorn type, they are unequaled. Place your order early and get in line with the most profitable era ever known in the poultry business. Send for free catalog, giving prices and complete description of the stock, together with testimonials from satisfied customers in all sections of the country. Address

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AURORA, CAYUGA CO., NEW YORK

who can do so, should "do his bit" to increase food production and particularly to increase the production of poultry for meat, and pullets for egg production.

But I am not in sympathy with those who believe that this increase should be brought about by "appeals to the selfish interests of producers" thru the circulation of juggled figures representing alleged profits, or other methods of inflation. I am getting rather fed up on all this "patriotism at a profit" and "production as a patriotic duty" talk, while several groups of selfish interests continue to exploit poultry keepers and the poultry business to fatten their profits. It has been rightly said that no individual, or big business, should be permitted to take advantage of the war to pile up big profits and get rich out of the world's difficulties.

Our boys are giving their bodies and their lives for the country and for the welfare of the world. They receive their food and clothes and a very modest wage. Certainly all other citizens, and our various business houses, should be willing to "do their bit" and keep within the "fair and just profit" which our President has several times mentioned. We believe that most of our citizens are doing their bit and trying to keep up with the mighty team work required of all of us; but unfortunately all hogs are not confined to sties and stock yards. Speculators and other profiteering pirates have been busier than bees ever since we got into the war.

The poultryman does not need any appeal to his patriotism, but he does need relief from the pirates who prey upon him and he should get a square deal from the public. I know many poultrymen who are carrying their poultry at a heavy loss and who will endeavor to keep up production in 1918. They have plenty of patriotism, courage and patience, but unfortunately these desirable qualities are not legal tender for payment of grain bills or taking up loans at the bank. These poultrymen will increase production, will continue "soldiers of the second line" if they are permitted to do so by circumstances, all they ask is a soldier's pay—a living plus their actual expenses. Most of these men will say "We do not ask any real 'net profits' during the war, we ask no more than a guarantee of production costs and a living wage."



If I handed you a bag of coin

you would jump at it mighty quick. You should be just as anxious to take advantage of the money-making possibilities of

SUNNYSIDE BIRDS

They make money for me and they will do the same for you.

Brown and White Leghorns, Reds Barred and White Rocks, White Wyandottes

BREEDERS

Trapped stock, regular \$5.00 value, birds that will give you an opportunity to make good profits selling hatching eggs, with records of

180 to 200 eggs, each	\$2.00
210 to 248 eggs, each	\$3.00
10 cock birds at	\$5.00 and less
Pullets, according to age and breeding ..	\$1 to \$3
Cockerels, according to records of dams,	\$3 to \$10

HATCHING EGGS

from 200 to 249-egg hens, trapped stock, pedigree stock. We guarantee safe delivery, and send you the same eggs as we use ourselves. Prices for January delivery and after:

100 eggs; any variety we have	\$10.00
200 eggs; any variety we have	19.00
300 eggs; any variety we have	27.00
500 eggs; any variety we have	40.00
Eggs from Show Birds and Record Layers combined	\$3.00 per 15

BABY CHICKS

same high quality as our other stock, and we have kept our prices same as last season. Bred from birds with records of

180 to 200 eggs, chicks, per 100	\$20.00
210 to 248 eggs, chicks, per 100	25.00

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VICTORY!!

Again the glorious "Aristocrat" Barred Rocks are making a grand Sensational Sweep of Victories

thruout all America. In their magnificent march of glorious triumphs from New York to San Francisco, from Canada to South America—in competition open to the entire world—the all-conquering "Aristocrats" are heralded and crowned victors at these largest Barred Rock shows of all the world: Chicago, Guelph, New York Palace, California State, London, Memphis Tri-State, New Orleans, the Great World's Fair, Texas State, New York State Fair, Detroit Round-up, and many, many hundreds of other shows, large and small.

Do You Still Need Winning Show-Birds?

I have them in all classes, ripe and ready to win out for you, the richest, most glorious Barred Rock show-birds you have ever seen. (Wire if in a special hurry.)

Do you want breeding birds—breeders that will produce such superb show-birds? Write me fully today and let me help you to breed real winners.

MY GUARANTEE: Every "Aristocrat" male and female is guaranteed to be absolutely satisfactory to the customer or the entire purchase price will be refunded. You run no risk. I take all the risk. Remember: I am furnishing the breeders that are producing those powerful winners in many of the world's foremost shows.

Eggs which produce such show-birds:
\$10 per 15, \$25 per 50, \$50 per 100.



W. D. HOLTERMAN, Fancier

Box A, FORT WAYNE, INDIANA, U. S. A.



FIRST PRIZE & COLOR SPECIAL S. C. RED COCKEREL NEW YORK STATE FAIR 1917 BRED AND OWNED BY OWEN FARMS VINEYARD HAVEN MASS.



Fifth prize White Orpington hen at Chicago Coliseum Show, December, 1917. Owned by Frank W. Jacobs, Anderson, Ind.

My Hens Lay Fine Now.

All of us poultrymen with years of experience behind us know very well in order to make our flocks pay the biggest profits thru the market egg channel we must make them lay plenty during the winter months, when one dozen eggs bring as much as two or three dozen in spring and summer.

You and I also realize that to do this successfully it is necessary that we feed our hens other foodstuff than just corn and wheat, keep them comfortably housed and provide them with sufficient drinking water.

I have fed all kinds of grain in different ways and gave them all the care I knew how, including different kinds of green food, such as cabbage, potatoes,

mangels, beets, etc., but nothing that I have ever tried produced such good returns as the feeding of sprouted oats. Sprouted oats seem to be more relished than any other green food and I am also convinced that it contains to a greater extent the elements to keep the hens in good condition and make them lay than any other addition to the grain rations an egg-making feed, but are not liked very well by the hens. Raw oats are also often the cause of hens getting crop bound. Now with the help of my sprouting machine I can easily convert this hard-to-digest egg feed into the finest and juiciest green feed imaginable. When sprouted it goes farther, is a positive health regulator, is cheaply produced, I had provided for my hens.

Oats in a raw condition are good for

requires little time and what is most important, the sprouts absorb the nutritious elements in oats. Since feeding sprouted oats there are no more disappointing egg-gathering expeditions to my hen house, and I hope that these lines will induce other poultrymen to get in line and give their hens what they need and I am sure no more complaints will be heard as to unproductive hens.



Efficiency Day-Old Chicks

The kind that grow and pay. Many varieties to select from at appealing prices. Send for catalogue.

CLYDE CHICK HATCHERY
Box A-21 Clyde, Ohio

My Silver Campines Again Champions!

at the COLISEUM, CHICAGO, Dec. 4-9, '17

I won the Sweepstakes Championship for the 5th successive time

Cocks	Hens	Cockerels	Pullets	Old Pen	Young Pen
1	1		1		1
2	2	2	2	2	
3	3		3		
			5		

40 males placed at the Coliseum Show during the last four years.
104 females placed at the Coliseum Show during the last four years.

NOW GET THIS: The breeder who has only five, ten or fifteen exceptional Campines is not going to supply many customers with hatching eggs from prize-winning fowls. But when a breeder has literally Scores and Scores of Big Show Winners, as I have, the customer is pretty certain to get what he pays for in the way of hatching eggs and day-old chicks. Isn't this reasonable?

HATCHING EGGS from the finest exhibition Silver Campine matings:

HATCHING EGGS from other pens headed by Coliseum winners, but not BL Ribbon males:

Per Sitting of 15 eggs.....\$10
Three Sittings for.....25
One hundred eggs for.....50

Per Sitting of 15 eggs.....\$ 5.00
Three Sittings for.....12.50
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Write me today for information.

FRANK E. HERING Desk B SOUTH BEND, INDIANA



Conservation Scratch

The New Wheatless Feed for Chickens

Conserve the Nation's Wheat Supply and Increase Poultry Production

CONSERVATION Scratch is practical and patriotic. It saves the wheat and gives your fowls a feed that has all the food value of a wheat feed. It is nourishing, wholesome and energizing.

Contains Everything But Wheat

Conservation Scratch is not an experiment nor a "slapped together" makeshift. It is the tested and successful result of close study by poultry feed experts—a scientifically balanced combination of corn, kafir corn, milo maize, barley, oats, buckwheat and sunflower seed. It contains everything but wheat, and the best poultry feed authorities everywhere unanimously declare that it is rich in egg and meat-producing qualities. Chickens like it—thrive on it—produce on it.

Thousands of practical and experienced poultry raisers are feeding *Conservation Scratch* and saving money. They are getting splendid results with it and increasing their yields and their profits. *Conservation Scratch* is the solution of a big feeding problem and the answer to the demand for the right kind of a wheatless feed.

Big Profits in Eggs and Poultry

The nation needs more eggs and more poultry. It is looking to the poultry raisers of America to offset the serious shortage of beef, pork and mutton by increased egg and poultry production. There are big profits—big inducements to poultry raisers who keep good stock and feed judiciously. They can render a great service to the country—to all the world, and make big money. *Conservation Scratch* will help. Order

Conservation Scratch at once. It means wheatless days for the chickens, but not eggless days nor under-nourished fowls. Conserve the wheat, but help keep egg and poultry production up to the maximum by feeding *Conservation Scratch*. Order from your dealer today. If he cannot supply you immediately, write us and we will see that you get *Conservation Scratch* in any quantity you wish.

Chas. A. Krause Milling Co. Milwaukee, Wis., U. S. A.

Krause Mash is another famous Krause feed. Use it for your mash feed. It contains all the necessary elements for an effective mash—promotes rapid growth, helps increase egg production, aids in securing maximum number of fertile eggs. Other Krause poultry feeds are *Krause Scratch*, *Blue Top Scratch*, *Cream City Scratch* and *Krause Chick Feed*.



Clip and mail this Coupon Now. Be sure to give name of your dealer.

Chas. A. Krause Milling Co.,
Milwaukee, Wisconsin.

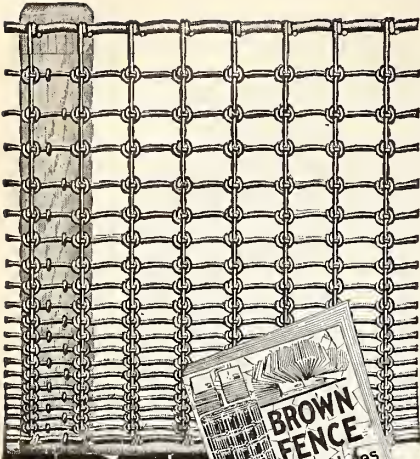
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Please send me a sample of *Conservation Scratch*.

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I want to send you my grand, big, new fence catalog—Free. Let me tell you the finest story of high quality and low prices you have ever read. Let me show you why half a million men bought over 125 million rods of Brown Fence. Let me tell you how to test Brown Fence or any other fence before you buy—so you can tell which fence is best galvanized and which will last longest.

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Brown Fence is DOUBLE GALVANIZED. Poultry and Garden Fences are very closely woven with extra heavy top and bottom wires. Cheaper than ordinary netting—lasts 6 times as long. 150 fence styles. Big line of Gates, Steel Posts and Barb Wire. Factory prices, all freight prepaid. I'll save you money. Just send me your name on a postal for my free book and sample to test.

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All Steel. Comes Complete—Fence, Posts, Gate—Everything ready to put in place. Easy to put up and take down. Any size wanted. **SOLD ON A SIXTY DAY'S FREE TRIAL.** The prettiest and most durable yard you can buy. Send for Catalog and Low, Direct, Factory Prices. **MASON POULTRY FENCE CO.,** Box 46 LEESBURG, O.

"Buffalo" Portable Poultry Runways

Enable you to make any size yard or runway desired. Can be moved to other locations at will. Prices as follows:

Per section	
7 ft. long x 5 ft. high... \$3.75	
2 ft. 6 in. long x 5 ft. (Gate)..... 1.80	
8 ft. long x 2 ft. high... 2.00	
6 ft. long x 2 ft. high... 1.60	

Above prices are for orders consisting of six or more sections and are F. O. B. cars Buffalo. Best article on the market for young chicks, ducks, geese and other small fowl or animal, also for enclosing small garden plots. Place your order today! You will be well satisfied. Booklet No. 67-D will be mailed you upon request, with six cents in stamps to cover postage.

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Fruit Trees and Shrubs Everything needed to beautify your home and garden, direct from Nursery at one price, 10 cents. **Ten Cents Each** ONE MILLION FRUIT TREES AND SHRUBS to be sold under guarantee of first-class stock, true to name. Free from disease, or money refunded without question. We can give highest bank references. Illustrated catalogue listing our big variety, and nothing over 10 cents. **FREE.**
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Horticulture for Poultry Keepers
Conducted by Thos. F. Rigg, Iowa Falls, Iowa.

ALL materials used in spraying fruit trees and vines will cost much more next spring than they did last. In fact, they are far higher in price now than they were early this season. Prices are going up every day. I have bought all my supplies for next season and figure I have saved considerable money by so doing. Arsenate of lead and sulphur are especially active in advance in prices. "A penny saved is a penny earned," and it is "good business" to buy these materials now.

The year just closed has been a banner year for the fruit growers, and I figure 1918 will be even better, so far as prices are concerned. I have never been a boomer as to prices of apples. I have held, and do so now, that it is better for the producer of apples to get a fair price rather than a very high price. The people are willing to pay a fair price for apples and if they can so buy them they will consume a large amount of this fruit; whereas if the price is exceedingly high, it means a short consumption. The reason why the apple market is not consistent and why the markets are not properly supplied, is that the growers are not properly organized. But to cover this would require more space than is assigned me in these columns. The selling end is the big end of apple production and successful orcharding.

At this writing eggs are selling at 50c a dozen, retail, in our town. This is the highest price they have ever sold for here and our farmers are wishing now they had not sold so many of their hens. At this price there is big profit in eggs to farmers here in the corn belt. The price of hens has dropped to 12 cents a pound, owing, in part, to the fact that farmers and townspeople are flooding the markets with this class of poultry.

I have read your article in American Poultry Journal in regard to the use of nitrate of soda as a fertilizer. I have some soft maple shade trees which I planted some twenty years ago. Among them there was one which showed very little signs of life. I put a two-foot six-inch tile on each side of it to give it plenty of water, but it eventually died. It was in the same kind of soil, yellow clay, as the others, about sixteen feet on either side of it. I also used water in which horse manure had been soaked to fill up the six inch pipe, but it did not seem to do any good. Four years ago I had another tree of same kind planted in its place, but it is not doing any better. In spring it makes a few leaves, but by the latter part of August they are almost all gone. As I have some nitrate of soda on hand, I thought perhaps I would dose it with some soda. What would you advise?
Illinois. Jacob Schenck.

It looks as tho there was something not suited to the growth of these trees where the two have refused to grow. The fact that trees of the same kind do well near this spot would indicate this. Make a very thoro examination of the soil next spring. If you find anything wrong, take out a lot of the dirt and fill the hole with good loam. Nitrate of soda, properly applied, is very beneficial. Do not put this around trees or on any

crop, before growth starts. Wait until growth has started. Then use the nitrate very sparingly. I cannot tell you just how much to use, because I do not know the size of your tree, but think you should not use over half a pound of soda to each tree. Scatter the soda on the ground covered by the roots. This will be what the spread of each tree shows. Put the soda on ground just before a rain if possible. Do not use it in exceedingly dry weather.

Would like your advice as to how to care for an asparagus bed from planting roots to cutting. I have a large bed of asparagus on this farm and have never had any experience with the growth and the care of it. Some say to manure it liberally now.
Michigan. Ralph De Moat.

It is best to make a trench about two feet deep and fill in about six inches of well rotted stable manure. Set the plants in same, covering crowns about two inches. As they grow gradually fill the trench. Then thoro and very heavily cover the bed with stable manure, taking care not to cover the stalks of the asparagus. Each season mulch very heavily with coarse stable manure, never letting the litter get so low that the ground will show in the bed. It is essential that the bed be very heavily fertilized just after cutting is stopped. It is then that the asparagus needs the fertilizer most. It needs it in order to make growth that will give you the big shoots for cutting the next



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Galathey Bros. & Co., Dept. 310 Waterloo, Iowa

season. Of course, you should mulch now if you have not already done so. This is the best way to handle a home garden asparagus bed. Of course, where it is raised by the acre cultivation is necessary. If you will handle your bed of grass this way, you will surpass your neighbors in the production of this splendid vegetable.

* * *

I cannot resist the temptation to pay my respect to some of the fellows who are now so prominently on the firing line. These fellows have for years been knocking the American Poultry Association and have succeeded in driving from the association many fanciers and causing some old-time fanciers to look upon the association as something of no avail to them and in whose circle they can find nothing congenial. These fierce fighters for the cause of more poultry have certainly had a change of heart and their actions bear all the marks of the ill-directed and poorly aimed fire of the raw recruit. For years



FIRST PULLETT NATIONAL W.W. CLUB PILETT-BUFFALO
FIRST PULLETT and CHAMPION FEMALE - GRAND
CENTRAL PALACE - NY 1915 - Seed and raised by
WEST MOUNTAIN POULTRY YARDS - Naugatuck Conn.

F. B. Williams, Naugatuck, Conn., is proprietor of West Mountain Poultry Yards.

they wandered in the wilderness of sin, and opposition to the association when it was directed by the fanciers who organized and sustained it. Now they are shouting the gospel of the new order of things with the same fervor that the sinner displays in his first kneeling at the altar. So runs the world. It is only a question of time before a man's sin finds him out. It was ever thus.

"Solomon and David led merry, merry lives;

They had many, many concubines, and many, many wives;

But as old age crept upon them, they had many, many qualms—

So Solomon wrote the Proverbs and David wrote the Psalms."

* * *

My advice to Iowa planters not to plant apple trees on Doucin stock, commercially, has been challenged by a number of writers. I submitted the question to Prof. Beach, of the Iowa State College. Here is his reply:

I have your inquiry of November 12 regarding the comparative value of Doucin and standard stocks for the apple for planting in

INDIAN RUNNER DUCK CULTURE
Finest illustrated duck book published. Tells how to hatch and care for greatest egg producing fowl on earth. How to get a start. Quotes low prices on stock and eggs of finest strains. Sent for 5 cents postage.
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Alfalfa, Corn, Barley, Oats, Clovers, Timothy.

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34 1/2¢ A ROD

KITSELMAN POULTRY FENCE is made of Open Hearth Basic steel wire, drawn annealed and galvanized in our own mill. A strong, durable, closely-woven, RUST RESISTING FENCE that will last for years, requires fewer posts, no base board or top rail. **NOT A FLIMSY NETTING BUT A POULTRY FENCE.** Stretches perfectly and stands up on the posts like a farm fence—does not sag, bag or buckle. You can't beat Kitzelman Fence for quality, and it's **Shipped From Our Factory**

Direct to You and Your Neighbors Too

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E. F. HODGSON CO., Room 332, 116 Washington St., Boston, Mass.—6 E. 39th St., New York C

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ever made in their varieties are by birds which we have in our matings. **Shorewood Buff Leghorns** are the original Heasley line continued under his management. Third time champions at Chicago, Dec., 1917. Bred for eggs but fit for show. **Shorewood Rhode Island Whites** have a world-wide reputation for their egg breeding and show quality. Write us for the detailed facts about our

CERTIFIED WINTER LAYERS
They mean increased profits for you and greater production for Uncle Sam. Buy from our egg-bred blood lines NOW.
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242 Eggs 10 1/2 Mos. Missouri



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"FILL
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"SCALECIDE"

As proof of our confidence and to strengthen yours, we will make the following proposition to any fruit grower of average honesty and veracity:

Divide your orchard in half, no matter how large or small. Spray one-half with "SCALECIDE", and the other with Lime-Sulfur for three years, everything else being equal. If at the end of that time, three disinterested fruit growers say that the part sprayed with "SCALECIDE" is not in every way better than that sprayed with Lime-Sulfur, we will return you the money you paid us for the "SCALECIDE".

Send for new free booklet, "Fruits in Fall Spraying".

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Perry's Buff Rocks and R. C. White Leghorns

bred 16 years for eggs and beauty. Over 200 first and second prizes won at Chicago, Brockton, Rochester, New York and Ohio State Fairs, etc. Grand breeding cockerels \$8; exhibition \$4 and \$5. Also mated trios and pens. Safe arrival and reasonable satisfaction guaranteed to every customer.

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Iowa. In reply will say that neither the Doucin nor the Paradise Dwarf apple stock is sufficiently hardy to be reliable in any part of Iowa. That is not saying that trees grafted on these stocks cannot be grown in Iowa. We have planted a large number of them in our orchards here at the Iowa Experiment Station at Ames and some of them have persisted. A very large percentage of them, however, has gone out within a comparatively few years after planting. Those which remained have probably become established or partly established on their own roots; that is, roots sent out from the scion above the stock. If one wishes to use the Doucin stock or the Paradise stock for trees to be planted in the dooryard or garden, and will be sure to "pet" them by mulching the ground to the depth of not less than a foot every winter, extending the mulch out beyond the spread of the branches, doubtless such dwarf apple trees could be grown with a good degree of satisfaction in any part of Iowa, provided that the top is of some hardy variety as Wealthy, Yellow Transparent or Duchess of Oldenburg. If this plan is followed, care should be taken to protect the trunk from injury by mice and rabbits.

S. A. Beach.

I hope all prospective planters will be guided by the advice given by Prof. Beach.

* * *

Have noted your statements about Royal Purple raspberry, but frankly doubt if it excels Columbian in productiveness under average conditions. Green's Nursery Company notes an instance where Columbian produced from 1,350 feet of row, 6 bushels. This is at about the rate of one and one-half quarts per foot of row. Please give address of nursery propagating Royal Purple. I get many catalogs, but never saw it listed in any of them. An old fruit grower at Maquoketa, Iowa, where I was reared, writes he has tried out 30 varieties of plums and considers Terry the handsomest and best of all, altho he regards gold as very good. You should know something about plums. Iowa and Minnesota are great plum states. I have bought all varieties of plums coming into Chicago market and consider York State Prune best for canning.

Illinois. W. V. Smith.

I have stated that on our grounds Royal Purple raspberry will year in year out outyield the Columbian. For us it is the better berry in every way. My advice is and has been for growers (except those in the far North) to try out the variety. I have discarded all other varieties. Theory has no place in my fields. It is production I am seeking and this I demand of every tree or bush on my place.

Terry is a good plum, but not for one moment would any authority put it in the same class with Omaha, America, Endicott, Wyant and a number of others. It may be the best of all for some growers, however.

* * *

On your recommendation as given to others, I am going to try Royal Purple raspberry in the spring. The first two years we had the Columbian we thought they were all that could be desired, but since then have had much trouble with winter killing. Would like an answer to following questions:

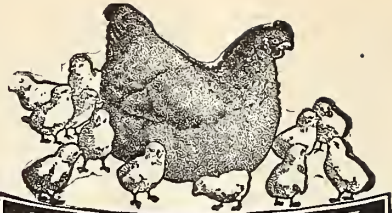
1. What can one do to make tips of Columbians root? Have had some covered since September 1 and at present, November 13, not half have rooted. They are covered with a little dirt and stone to hold in place, about six inches from tip of cane.
 2. Do you know anything of the Herbert Red raspberry? I have two catalogs that claim they are better than Cuthbert.
- New York. E. B. Cass.

I have found it best to lay down canes of the Columbian in the fall, covering the cane the entire length with about four to six inches of dirt. First break half way thru the cane just below each

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telling how a Mich. hired man now works for himself breeding PR squabs and selling for \$5 doz., how an Ind. man sold 4652 PR squab for \$1265 and cured himself of desire to leave the farm, how a S. C. man ships PR squabs 125 miles to city hotel by parcel post at \$4.25 doz., how another earned one thousand dollars with PR stock from start with only one pair, how a Texas judge bred 8 pigeons until they amounted to a flock of 164 in one year, how a Vermont bred 25 pairs to 800 pairs in two years. You can do the same. More money-making experiences. Write today for this **free book**. How to get six dollars a dozen, how to start small and grow big. We ship breeders everywhere, safe delivery guaranteed. Read how one of our customers gets \$8 a dozen for squabs in Pittsburg and makes a net profit of **ninety dollars a month**. Note his selling methods. Reading matter which is alive with selling ideas as well as breeding ideas. Squabs well sold are easily raised. Save me a t e breed, sell, e a t squabs;

Squabs are raised in one month; sell for fancy prices.

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fruit bud. This bruising of the cane causes it to send out shoots at the bruised points. I used to be very successful in so doing.

The Herbert raspberry is not nearly so good as the Cuthbert. The Herbert seems to very notional in its likes and dislikes. In some soils it does fairly well. I suppose there are conditions under which it might be the best berry. I advise you to stick to the Royal Purple and the Cuthbert.

* * *

I have an offer to buy a farm of 80 acres, with 10 acres in bearing apples, in Manistee County, Michigan. Not having much experience, thought you would be good enough to advise me what to do. Would it be profitable for me to buy the place and hire an experienced man to run same for me? What does an acre of apples average and is there much care involved in it? The farm is in the Michigan fruit belt. Poultry would have the run of the orchard. Do you consider it unsafe on account of the spraying of trees.

New York. Josephine Engerie.

Judging the proposition from the information contained in your letter, I am frank to say that I do not believe it would be advisable for you to buy this farm. Your letter indicates that you know nothing about apple production or general farming, and apple growing is indeed a business which takes lots of hard work and a knowledge of the how-to-do-it. You would find it rather difficult, in fact very difficult, to secure the services of a man who would be a good orchardist and an experienced seller. Of course such men can be secured, but no one with ten acres of orchard can afford to pay for such service. I want to give you the advice asked without wounding you and hope you will accept my findings in this spirit. Apple orchards yield all the way up to \$1,000 net profit an acre. It depends entirely upon the grower. A net profit of \$100 per acre is low for a properly conducted orchard in the best fruit sections of the country.

I have never had any trouble with the poisonous spray injuring poultry while occupying orchard. Of course, if the work is carelessly done, there is danger of chicks and adult fowls getting enough to poison them and perhaps kill them.

* * *

Twig blight has been long regarded as one of the most to be dreaded infections to which fruit trees are subject. We read with pleasure these encouraging words from Horace Roberts, New Jersey. "I have," he says, "observed twig blight for years; it seems to me that it is something nearly every tree has to go thru with, like measles in children. After the tree has had the disease it seems to acquire immunity for a period of years. I know that some people will take issue with me about these statements, but I have had the twig blight in my orchards for years past and it has never done much real injury." — American Fruit Grower.

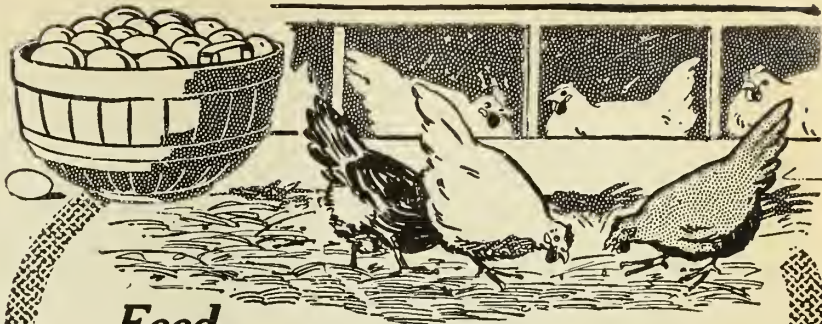
I do not want to be understood as accepting the theory advanced by Horace Roberts. However, my experience with a Rankin apple tree on my home grounds sustains his theory. For several years this tree was annually damaged by twig blight. Of course, I sprayed it thoroly and this held the blight somewhat in



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We know these feeds to increase the egg yield of hens, through many test feeds in our own experimental poultry yards. We make no claims you can not verify in your own experience.

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SUCRENE POULTRY MASH is composed of meat scraps, alfalfa meal, and palm kernel meal, high in digestible protein; corn feed meal, wheat bran, corn distillers' dried grains, linseed meal, calcium carbonate and a little salt. Guaranteed analysis: 18% protein, 3½% fat, 50% carbohydrates, 12% fibre.

SUCRENE SCRATCH FEED contains corn, wheat, kaffir, sunflower seed, buckwheat, barley and oats. Guaranteed analysis: 10% protein, 2½% fat, 65% carbohydrates, 5% fibre.

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These are the four points of merit in *Sucrene Poultry Feeds* which have made them the most popular feeds in the market today in their line.

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Order a 100 lb. sack of each feed from your dealer. At the present price of eggs you'll find it the most profitable investment you ever made. If your dealer does not handle these feeds write us his name and we will see that you are supplied.

Fill out and mail us the coupon for valuable literature on poultry feeding.
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Send for special sale list of exhibition and heavy layers. Cockerel line exclusively.

LUTHER J. HALL - Box 7 - KENNEY, ILLINOIS

Send for a Copy of New Am. Poultry Journal Cut Catalog.

check. Two years ago the tree showed no blight and yielded an immense crop of fruit. Again this last year there was no sign of blight, the tree giving me a satisfactory crop of fruit.

* * *

In answer to A. H. Bullock, Utah: The Stark Early Elberta peach was originated by Prof. Dean Sumner, of Kaysville, Utah. I advise you to consult Prof. Sumner.

UTAH LEGHORNS

It is no longer necessary to send East for the best in

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We have the best that money can buy right here in Utah. I have four 300-egg hens in one pen this year. I'll tell you what you do—

Send Me \$5 each for one or more cock-erels from my 200-egg hens, and if you don't think they are the best value you ever saw, return them. I also have

Show and Utility Stock

\$3.50 to \$25, and can please anyone. They win and they lay. Eggs, Baby Chicks and Eight-Week Old Pullets in Season. If you don't want to order from this ad, write me your wants and send for catalog.

EDWIN BRICKERT, BEAVER, UTAH

Capt. Ede is a better peach than the old Elberta. It is now hardy and as good or better in fruit, and more handsome.

I cannot advise you in regard to the planting of apricots. Consult your state authorities.

Senator ought to be a very profitable apple for you to plant. Senator, Delicious and Jonathan would be a good combination for you. Try out a few of the Golden Delicious. It is a better apple so far as quality is concerned than the grand old Grimes Golden.

Unless you have an established local market do not plant heavily of crab apples. The Florence and Excelsior would probably be best for your planting.

* * *

On the 26th of November I went out in the woods and uncovered some wild crab apples which had been covered with oak leaves since the trees shed their foliage last fall. In the woods stands a wild crab apple tree, so situated that the wind deposits large quantities of leaves about it each fall. And every fall as late as possible I go to this tree and get some of the thoroly ripened crab apples. You will, no doubt, say you could not eat the wild crab apple. Did you ever eat one which had been thus thoroly

ripened in accordance with the way which I think the Lord intended crab apples to be ripened? No? Well, then you are no judge as to the quality of the fruit. It is truly delicious to eat out of hand, or made into sauce. I am very fond of them and have been searching for years for a tree which bears large fruit. So far I have not found it. I would like to transplant such a tree in my home yard and cultivate, prune and spray it, and see what I could make out of it.

* * *

I am greatly interested in the development of the new and better sorts of potatoes. Next season I shall plant from twenty to thirty varieties or, rather, old kinds and seedlings. There is a lot of pleasure in this kind of work and it is of service to the whole people too, or will be if I can develop even one better variety than we now have. The potato is sure to be a more profitable crop each year. I do not believe we know very much about potato culture, even tho the world has been raising these vegetables for so long a time. If any of my readers in the far North or in our northern states have a strain of any variety that is especially productive and of good quality, I shall deem it a favor if they

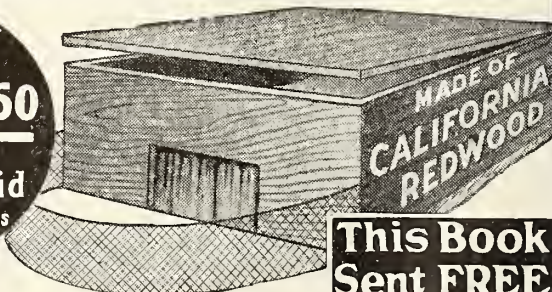
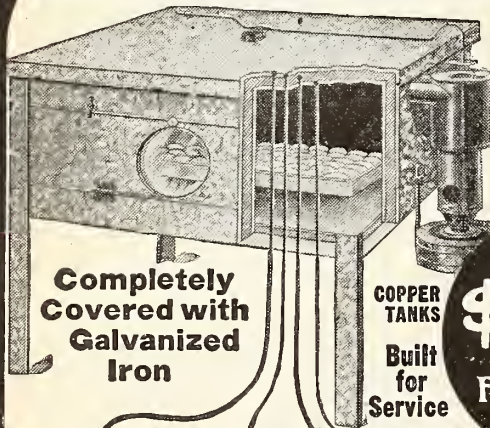
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If you are going to buy an Incubator this year, it will save you time and money to order an Ironclad first. Why not own an Ironclad outfit when for only \$12.50 we guarantee to deliver safely, all freight charges paid (east of the Rockies) both of these famous reliable machines, fully equipped, set up ready for use.

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You have nothing to risk. We will send machines—let you use them 30 days—urge you to compare them in quality of material, hatching ability, workmanship and price—and if you don't find them satisfactory, send them back—we'll pay the freight charges and return your money. You are absolutely safe. We have to do as we advertise. If we didn't the publishers of this paper would not carry our advertising.



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When an incubator is constructed of material of this kind it gives you the strongest and most durable incubator that can be made—a machine that will not warp or shrink, or open up at the seams, as every joint is lapped over with our galvanized iron covering—giving you a machine that will last a life time. Don't class this big, galvanized iron covered dependable hatcher with cheaply constructed machines. Ironclads are not covered with cheap thin metal and painted, like some do to cover up poor quality of material. Ironclads are shipped in their natural color—you can see exactly what you are getting. Don't buy any incubator until you know what it is made of. Note these Ironclad Specifications: Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering. Galvanized iron legs, large egg tray, extra deep chick nursery—hot water top heat, copper tanks and boilers, self regulator, Tyco's Thermometer, glass in door, complete book of directions, and many other special features fully explained in free catalog. Write for it today or order direct from this advertisement and save time.

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It tells how Ironclads are made. A valuable book for poultry raisers.



IRONCLAD INCUBATOR CO., Box 43

Racine, Wis.

will send me one potato by mail that I may put it in my experimental plot next season.

* * *

As is their custom, my Gravenstein apple trees kept up growth until exceeding late in the fall, thereby making wood which did not mature and which will winterkill. I am going to cut out these trees.

* * *

Can you recommend a good periodical devoted to gardening? I greatly enjoy you writing in American Poultry Journal and consider it altogether the best paper published and have taken it for a number of years. Could not get along without it. Your department is an acquisition to the Journal.

Thos. E. Winslow.

Lidcombe, Sydney, New South Wales.

I want to thank Mr. Winslow for his kind words and for the encouragement he gives to all those who are working so faithfully to make AMERICAN POULTRY JOURNAL what Mr. Winslow says it is: "The best Poultry Journal." I have received no letter I value more than this and will take genuine pleasure in complying with Mr. Winslow's request to send him copies of American gardening magazines.

* * *

I am in receipt of a long letter from Lloyd R. Mayor, Ohio, in which I am taken to task for saying a good word for the Black Ben apple. I stand squarely by what I have said in favor of this great big, beautiful and not high quality apple. The tree is an immense bearer, the apples are large and beautiful. I think the variety will give more apples to the tree every year than any other variety. The fruit will keep better than most kinds. As an apple to send into the South for winter use it has all others beaten. As a fruitstand seller it's in a class by itself. It can be sold at a big profit to the grower for considerably less money than can the better quality sorts. There are thousands of people who can afford to buy Black Ben who cannot afford to pay high prices for extra quality apples. Why should they not be supplied with apples? The Black Ben has its place in commercial apple growing and any man who denounces it has but little idea of the condition of the apple market, the needs and wants of the people, and certainly little regard for the great number of good people who count it a privilege to buy their apples.

* * *

One of our groccrymen last week received a car load of Baldwin apples from a New York grower. I saw a barrel out of this lot opened by a neighbor and such a motley collection that barrel contained! I never saw such an assortment of apples in one package. Little ones, scabby ones, bruised ones, and the most of them I would consider practically worthless. If the apple grading law of New York is not observed any more than the shipper of this lot of apples observes it, it is certainly a farce.

* * *

I want to thank Ramson W. Hull, of Delaware County, New York, for his very kind letter. It does me good to receive such letters and to thus be told that my efforts to make this department in AMERICAN POULTRY JOURNAL interesting and instructive are appreciated by so many of my readers.

* * *

May every reader of the AMERICAN POULTRY JOURNAL be healthy, happy and prosperous during 1918!

Expert Opinion

as well as that of poultrymen everywhere—the man who keeps a few hens in his back yard right on up to the commercial raiser who has thousands in his flock—is so favorable that over 49% of our shipments in 1917 went to people who had already used and knew all about



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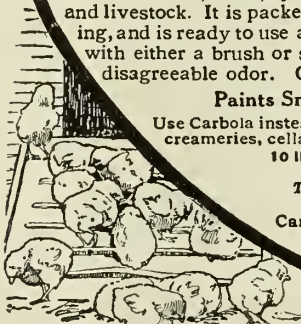
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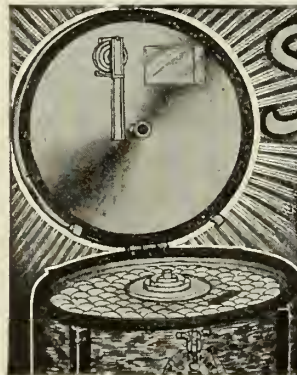
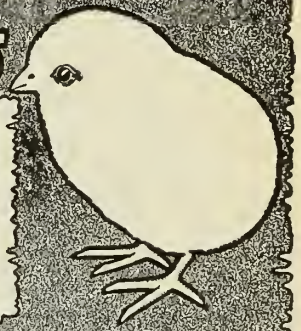
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Questions and Answers

Conducted by
Prince T. Woods, M. D.

Questions about poultry are answered in this department free for all readers of American Poultry Journal. Where answers are desired by mail, a stamp for reply is requested. Address all query letters to the managing editor, Dr. Prince T. Woods, Lock Box 4, Silver Lake, Mass.

Toe Nails Lost by Frosting.

Q. I have a R. C. White Leghorn cock, bought of —, and so far as I can see he is all right except all of his toe nails but one on his right foot are missing. The remaining nail turns up and points to the right. I paid \$3.50 for this bird and the breeder claims he shipped me a good bird, and that the toe nails were lost last winter by foot being frosted. Did he send me a good bird or has he sent me a cull?

Spokane, Wash. **T. B. H.**
A. If you bought the bird for breeding and he has nothing else the matter with him, do not think you should complain. It is not uncommon for cock birds to lose toe nails thru frostbite. Unless the foot is seriously injured so as to interfere with service, the bird should breed all right. Of course you cannot expect to buy best value in breeding quality at that figure.

Lice.

Q. Please give a good remedy for lice on chickens. I have a flock of 700 White Leghorns.

Monterey, Cal. **S. A. R.**
A. Send to Poultry Investigations, United States Department of Agriculture, and ask for bulletin on poultry lice and mites. Dusting with Persian pyrethrum powder or with flowers of sulphur is effective, but would be some job with so large a flock. Better supply dust



COCK, winning first shape and color special National Club Meet Albany, N. Y. 1913
WEST MOUNTAIN POULTRY YARDS-Naugatuck, Conn.

F. B. Williams, Naugatuck, Conn., is proprietor of West Mountain Poultry Yards.

baths in sheltered location near each poultry house, and keep the "dust" a trifle moist. Use crude petroleum on roosts and droppings boards, also for spraying cracks in wood work and to sprinkle on floors. One pound of naphthalene flakes (crude) dissolved in a gallon of kerosene makes a good lice-killing spray for use on roosts and drop boards. The kerosene will not quite dissolve all of the flakes.

Wants to Keep One Breed Only.

Q. I want to know how to pick out one breed and raise only one breed. I like every Standard breed and would like to have them all if I was able. I had a pen of four hens and a cock each of five breeds—five pens in all—and they cost me \$25 a pen. I have raised some of all and I like one just as well as the other. All are good. I went to a poultry show and liked every breed and variety I saw there. I have no liking for mixed stock or dunghills. I did not want to sell one pen, so I sold all five breeds and am going to start again. If you can help me to pick out just one breed I will be very much pleased. I like poultry. I could work around with them from morning until night and never get tired of studying them and caring for my fowls.
 Little Rock, Ark. **G. W. M.**

A. We can sympathize with you. That is real genuine "hen fever" all right. But, pick one breed? We haven't been able to do it ourselves yet. We did decide to breed Black Langshans exclusively a while ago, but we couldn't make up our minds to turn down the White Plymouth Rocks and so we still have both. We do not know what five breeds you tried—you did not say. Why not put the names of those five breeds, each on a separate slip and place them in a hat—then blindfold yourself and draw one slip to decide the choice of a breed. You can't go wrong, for you like them all. Our reason for keeping two breeds, however, is not so much that we are not willing to make a choice between the two, as the fact that each of the breeds possesses qualities which the other lacks and so gives us a most desirable all the year around poultry supply. For maximum results as a successful fancier, from a show room and commercial point of view, we believe it is better to specialize with one breed.

Feeding Formulas.

Q. Are the following scratch feed and mash mixed in proper proportions?

Scratch feed: 100 lbs. wheat, 50 lbs. cracked corn, 60 pounds of whole oats.

Mash: 100 pounds bran, 50 pounds each white middlings, corn chop and beef scraps; 25 pounds gluten meal.

Hchester, Md. **F. H. K.**

A. The mash is an excellent one. Do not think there is enough corn in the scratch feed, even for normal times. Believe that wheat in any such proportions will be forbidden. Would make that scratch mixture of corn and oats, bushel for bushel. If you can

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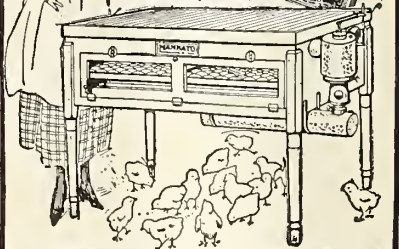
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get low grade wheat, below present milling quality but good enough for poultry feeding, add about 30 pounds to each two bushels of the corn and oats mixture. Be cautious about feeding damaged wheat—much of it is pretty poor stuff and unfit for poultry feeding.

Sound Wheat.

Q. Corn here is full of moisture and very moldy. Can get very good wheat. Would you feed wheat freely?

J. C. Omaha, Neb.
A. All sound wheat is needed for the manufacture of flour and other food for human beings. The announcement has been made that all of American wheat beyond our needs for home consumption until the next crop is harvested has been sold to our Allies and much of it shipped. Sound wheat should not be fed to poultry or other animals. Before you use wheat for poultry feeding, have the nearest County Agent or other food administration official pass upon its quality and decide whether or not it is fit for milling purposes or may be used for poultry and stock feeding. It is absolutely necessary to conserve all good wheat for human food.

Poultry and Corn Equivalents.

Q. I note that the minimum price of hogs is fixed on a basis of corn equivalents, allowing that 100 pounds of hog on the hoof is about equal to or calls for the equivalent of thirteen bushels of corn. That places the production cost of one pound of pork at about 7.28 pounds of corn. Can you give me an estimate of poultry and corn equivalents, figuring feed alone and also feed plus all labor and overhead expense? Would like to see this figured out for a laying hen, for eggs and for poultry meat.

C. T. Baltimore, Maryland.
A. Of course the quantity of feed required, the labor, and the overhead expenses all vary with the locality and the conditions under which fowls are kept. We believe that the following estimates will prove approximately correct as average equivalents. All feed required for one laying hen per year is about equal to 100 pounds of corn. The total costs of maintaining one layer per year, all feed, labor and overhead expenses, will about equal 150 pounds of corn. The average feed cost of a dozen eggs, counting the entire year, will be about 10 pounds of corn. The average total cost of the dozen eggs, counting all expenses of the year, will be about 15 pounds of corn. The feed cost in the production of an eight-pound roasting chicken will be about 64 pounds of corn. The total production costs, including all expenses, for producing the eight-pound chicken will about equal 100 pounds of corn. That would place the feed cost alone of one pound of chicken meat as equal to about 8 pounds of corn, and the total cost of producing a pound of chicken meat, including all expenses, about equal to 12.5 pounds of corn.

Single Mating.

Q. Am an amateur fancier, I have several breeds, and must confess that I have had much trouble in producing chicks which resemble the parent stock. Our space is too small to undertake double mating—a thing I do not even wish to try—and I will appreciate it very much if you will tell me which, in your opinion, of American and Mediterranean type of fowl, not including, of course, the black and white varieties, most nearly reproduce themselves from a single mating.

W. C. M. Birmingham, Ala.
A. A good many breeders of parti-colored varieties claim that their favorites can be bred to perfection by single mating, i. e., mating Standard males with Standard females. Frankly, we do not know of any Standard parti-colored variety in which this can be done or actually is done. We have heard a lot about single matings—and in the sense that the breeders do not keep two distinct families, one for pullet mating and one for cockerel mating, which is the true double mating plan, they may be technically single matings—but we have never yet visited a fancier's yards where there were not almost as many different matings as there were breeding pens. Some matings of extremes types and others conforming more closely to the Standard types,

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In the picture are hidden a number of faces. How many can you find? Some are looking right at you, others show only the side of the face—you'll find them upside down and every way. Mark each face you find with a pencil, clip out picture, send to us with name and address NOW. We will give away a \$360.00, 1917 Model, Ford Touring Car, as First Grand Prize, and Thousands of Dollars in Cash Rewards, Prizes and Special Premiums. Each worker gets a prize. Solve the puzzle. If you can find as many as FIVE FACES we will send you immediately toward the \$360.00 Ford Automobile and other Grand Prizes. We will also give away several 1918 model Coaster Brake \$40.00 Bicycles. These will be given free and extra, regardless of who gets the Ford Auto. Someone will get automobile. **WHY NOT YOU?**

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but no actual mating of exhibition quality male with exhibition quality female.

Mating fowls is an art. Even the best mating, no matter how well it may nick, will not produce all good progeny. One of the prime essentials is to know the breeding back of each breeding bird. Surface indications are not dependable. Knowing the breeding back of both male and female and knowing also the defects and good points of each, it is possible to balance up a mating, offsetting weakness in one parent by strength in the same section or quality in the other parent, so that the majority of the progeny will have the desired characteristics. Each and every mating will be a problem in itself, and that is more than half the fun of breeding Standardbred poultry. For best results close inbreeding and a knowledge of the blood lines back of the breeding birds is essential to enable one to mate fowls properly. For this reason it should be obvious that printed rules for mating breeding stock are necessarily more or less unsatisfactory. The old established part-colored breeds will breed more true to type and color than the newer ones, because closely inbred for a much longer period. Our poultry Standard is man-made according to man's ideas of perfection and of the development of fads and fashion. We have no natural standard for poultry. If Nature's rules were followed we would not be trying to make males

and females to conform so closely to one pattern. Much of the pleasure in breeding Standardbred poultry is to be found in matching one's skill and knowledge of the blood lines of the birds, when making up the matings, against the unknown hereditary influences. It is a fascinating game. Sometimes you get surprisingly good results and sometimes Nature hands you the unexpected. The closer the blood lines, when matings are well balanced to offset weakness with strength, if there is abundant health and vigor, the better the results and the greater the uniformity of the progeny.

If You Did Not Get Your Answer.

If you failed to get a reply to your inquiry dated before December 11, your letter or our answer must have been lost. On night of December 11 the postoffice at Silver Lake, Mass., including the general store, was totally destroyed by fire. Nothing was saved. A considerable amount of mail matter was destroyed, including the last mail which arrived for the night and outgoing mail which was to leave on the first morning mail train. We have no way of knowing how much of our mail matter was destroyed. We mailed a number of letters after the last mail out and did not get the last mail in.

House and Feeding Questions.

Q. (1) I have a shed 5 ft. long, 4 ft. wide, 5 ft. high in front and 4 ft. high in rear. Faces south. Has a glass window 16x20 in. and a duck window (soaked in linseed oil) 20x30 in. The roost is in the rear, 14 in. from roof and 11 in. from rear wall, and 7 in. from droppings board. Three nests under this board. Floor space all available. Can I keep six White Leghorns in this shed? These pullets seem to be healthy and doing well. I keep Red Comb meat mash before them all ways. Have plenty of cabbages and turnips. Also sprouted oats.

A. (1) Six pullets should be quite comfortable in such quarters if you keep the house clean and well aired. The roost is a little close to the rear wall. Do not like to have it so close that the birds' tail feathers touch the wall.

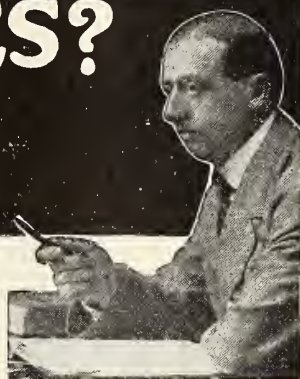
Q. (2) Can you tell me how much commercial scratch feed they should receive morning and evening?

A. (2) It is best to feed according to the appetites of your birds. You will find that it will require about six or seven ounces of scratch grain at each of the two daily feedings. This when they have mash constantly before them.

Q. (3) Are there sufficient heat-producing

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last the longest and give the most value for your money. You will know what you are going to get before you pay for it. It will also save you disappointment, time and trouble. That's why we want to send you a sample of the material we use in our machines. Year after year, these unbeatable Wisconsin have proven their superiority over all others regardless of price. The reason is plain. It is because they are made of the best materials and by skilled workmen. We know before they leave our factory they will give the best of satisfaction. Here is the proof—read the letters below. We get hundreds like them. Remember, you take no chances in buying a Wisconsin outfit. We give you

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Maysville, Ky. Wis. Inc. Co., Racine, Wis. Dear Sirs: I received my incubator and was very much pleased with it on account of excellent luck. I set 180 eggs and hatched 175 chicks. My neighbors think it is a great machine and probably will buy one like it. Mrs. H. Reeves.

Pine Level, N. C. Wis. Inc. Co., Racine, Wis. Dear Sirs: I like your incubator fine getting about 98 per cent hatchings. We would not buy without it for twice what it cost. Yours truly, J. D. Thompson

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Baraboo, Wis. Wis. Inc. Co., Racine, Wis. Dear Sirs: We are well pleased with incubator as we got 133 good healthy chicks from 139 eggs. Your customer, Gust Weiland.

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You can send in your order direct if you wish to save time. Remember, you can have 30 days trial with the understanding that if you are not perfectly satisfied, simply write me—send the goods back and I'll not only return your money, but pay the freight charges besides. Thos. J. Collier, Mgr.

elements in these commercial feeds to keep the hens warm in this climate?

A. (3) Usually. We would prefer a scratch grain containing a fair amount of corn, say about 50 percent, to one composed largely of low grade wheat.

Q. (4) Can I breed these pullets to a cock bird next spring? They were hatched June 28.

A. (4) Yes.
Q. (5) The shed is almost air-tight, except for what filters thru the oiled duck. Should more ventilation be provided? There is frost on the window in the morning, but it goes after I open the door on sunny days.

Negaunee, Mich. B. S.
A. (5) The house is a little tight, but with so small a flock it may not matter in your climate. Would air the house well daily by keeping the door open. If you can arrange that oiled duck window with hinges at the top to swing out like an awning you can get better ventilation and will have less frost. In so small a house it is always difficult to get ventilation and keep out the storms at the same time. If you make that duck window to open about six inches at the bottom and protect the opening on sides and bottom with coarse cotton cloth, that is coarse enough weave to let in air but keep out snow, we believe that you will solve the ventilation problem.

Poultry on Homestead Claim.

Q. (1) I am starting on a homestead and want some advice about poultry. In another year I want to keep about one hundred hens as a side line from farming. One writer says "do not keep more than 25 hens in a flock." If I was to have 100 hens and keep them in separate small flocks, would have to fence them in. In this part of the country fencing and building material is so high that I would not be able to do this. Is it advisable for me to follow this plan of small flocks? If I have two nice coops and let the hens run at large, will it be as well? In the summer months I do not have to feed the fowls grain. They may pick up a few grains if fed, but will leave nearly all, as they get plenty on range. Do farmers who raise wheat, oats, barley and corn, have to feed the poultry the different grain mixtures you use in the East? I know we raise some of the feeds you do, but not all.

A. (1) It is not necessary for you to yard your birds in small flocks. A 20x20 ft. open-front house will give ample accommodations for a flock of from 100 to 150 fowls. We have found that such flocks running on ample range lay just as well, and often better than smaller flocks. We get fine fertility from such flock units by allowing a number of males to run with the hens. We usually use five males with 100 females, putting all males—which have been raised together—into the flock at the same time. If you have several smaller houses that you can use, house a flock

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We Make "OCULUM OIL" Too

It Quickly Relieves Sick Hogs, Sheep, Cattle and Horses.

"OCULUM OIL" saved a \$2,000.00 cow that had as bad a case of running off of the bowels as I ever saw, after all other remedies had failed.

G. H. SWEET, E. Aurora, N. Y., Where World Champions are bred.

Trial bottles 50c, pint \$1.50, delivered. Guaranteed. Booklets Free. This Journal O. K's us.

OCULUM CO. Box B Salem, Va.



Day Old Chicks

AND DUCKLINGS

We furnish pure bred chicks of the finest quality

We only ship big, strong, healthy Baby Chicks that live, hatched from healthy, vigorous stock. Some fifteen varieties of poultry, raised on different farms. Our White and Fawn and White Indian Runner Ducklings are of the best egg-producing strains. We also do custom hatching. Send for big free illustrated catalog at once.

J. W. Ossege Hatchery Dept. 6 Glandorf, Ohio

1896—Williams' White Wyandottes—1917

Champions of 1916-17 Am I not entitled to this honor when I bred, raised and exhibited 19 first prize birds out of a possible 23 at Hagerstown and Madison Square Garden in competition with the White Wyandotte kings of the States and Canada? I have raised the finest young stock ever produced. Come and see them or send for free catalog.

F. B. WILLIAMS

Box H

NAUGATUCK, CONN.

WM. COOK & SONS

ORIGINATORS OF ALL THE
Box A
Scotch Plains, New Jersey

ORPINGTONS

As we MADE all of the Orpingtons, it is natural that we are recognized HEADQUARTERS for the Best all varieties. We have won over fifteen thousand first prizes and numerous government laying contests, our birds each averaging 251 eggs in a year. With high prices for feed, this is the sort of stock that it pays to keep. Better line of exhibition and utility birds than ever before. Write requirements. Satisfaction guaranteed and backed by reputation of 44 years. Send to-day for Annual catalogue Ornamental land and water fowl for sale. Advice free.

You Should Send 25c for Our New Poultry Account Book.

Tycos Incubator Thermometers are made in the world's largest thermometer factory. Carefully made of finest materials thoroughly tested and "aged". Absolutely accurate. It will pay you to install them in your incubators. Ask your dealer—if he cannot supply you, write us. Booklet free.



Tycos Incubator Thermometers

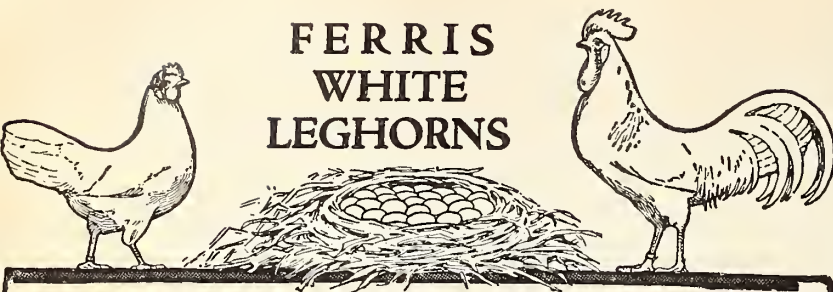
- Tycos Brooder Thermometers each \$.90
- Tycos Hygrometers 1.50
- Tycos Certified Incubator Thermometers 1.25
- Tycos Incubator Thermometers90

Taylor Instrument Companies

100 Ames St., Rochester, N. Y.



FERRIS WHITE LEGHORNS



Ferris Leghorns Lay Winter Eggs

For eighteen years Ferris White Leghorns have been bred to lay more eggs at all seasons than ordinary hens, and to lay particularly well in winter when eggs are highest. We do not breed from hens that are not good winter layers. We can't afford to, for with one of the largest poultry farms in the country we must have winter eggs to make it pay.

Thousands of poultry keepers in all parts of the country are having unusual success with Ferris stock; hundreds of customers in Canada also, and we have made successful shipments to Scotland, Japan, Australia, Nicaragua, Alaska, Philippine Islands, Bermuda, Cuba and Mexico. We guarantee safe arrival anywhere.

ALL STOCK IS SHIPPED ON APPROVAL. You can return within three days any birds not satisfactory and money will be refunded. We replace free any that die or get out of condition within 30 days. We also ship C. O. D. if desired.

We are now shipping eggs at the prices quoted below. All infertiles replaced free. Chicks after March first. Safe arrival guaranteed. Orders booked now.

We have three grades of laying stock. Stock from our heaviest laying strain, with trapnested records of 230 to 264 eggs, will cost as follows:

EARLY HATCHED COCKERELS—\$10.00 each, \$9.00 each for 10 or more. Yearling hens or early pullets, \$5.00 each; 1 male, 2 females, \$20.00; 1 male, 4 females, \$30.00; 1 male, 8 females, \$45.00; 1 male, 12 females, \$60.00; 7 males, 100 females, \$428.00. **EGGS**—\$5.00 for 15, \$25.00 for 100, \$200.00 for 1,000. **CHICKS**—10 for \$6.00, 100 for \$50.00, 1,000 for \$400.00.

STOCK FROM 200 TO 230-EGG STRAIN—the kind we recommend for breeding and laying where large flocks are required. Early hatched cockerels \$6.00 each, \$5.00 each for 10 or more. Early pullets or yearling hens, \$3.00 each; 4 females, 1 male, \$18.00; 12 females, 1 male, \$40.00; 100 females, 7 males, \$285.00; 100 females without males, \$250.00. **EGGS**—\$2.75 per setting, \$15.00 per 100, \$125.00 per 1,000. **CHICKS**—10 for \$4.50, 100 for \$35.00, 1,000 for \$275.00.

UTILITY STOCK FOR LAYING AND BREEDING. Not bred from trapnested stock, but from stock that we can guarantee to be better than the average. Cockerels \$4.00 each, \$3.50 each for 10 or more. Hens \$2.00 each, \$175.00 per 100. Four hens, 1 cockerel, \$12.00; 12 hens, 1 cockerel, \$27.50. **EGGS**—15 for \$2.25, 100 for \$11.00, 1,000 for \$100. **CHICKS**—10 for \$3.00, 100 for \$24.00, 1,000 for \$220.00.

This Free 40-Page Catalog

gives more information than is possible in this ad. Contains photos showing 35 acres of White Leghorns; describes our methods of feed and care; how we improve laying qualities; list of winnings at 20 big shows; many letters from customers; prices of exhibition, breeding and laying stock, eggs for hatching and day-old chicks. Even if you are not now in the market for stock we will be glad to send you a copy. Mail postal now while you have the matter in mind.



GEORGE B. FERRIS, 905 Union Ave., GRAND RAPIDS, MICH.

in each until the birds know their home, then let all the flocks have the run of the place. Keep only one variety. In raising chicks, keep the hens confined in brood coops and let the chicks range. Feed adult stock in summer only when range supply is not sufficient.

Q. (2) I see that chopped clover is highly recommended for winter feeding. We do not raise any clover here. Will alfalfa do as well?

Dubois, Idaho.

A. (2). Yes.

G. W. C.

House Plans.

Q. Where can I get plans for building and information about open-front poultry houses? I am a new subscriber and see reference to such houses but no plans or advice on building.

Dubois, Idaho.

A. See book lists in this issue. Our book department at Chicago office can supply book "Open-Air Poultry Houses for All Climates," describing the best types of open-front houses and giving building instructions. The price is 75 cents per copy postpaid for a cloth-bound book having 86 pages, well illustrated.

Golden Wyandottes with White in Wing.

Q. (1) Are Golden Wyandottes supposed to have white wing tips? I have purchased stock of a prominent breeder and all had white tips and sometimes nearly an entire feather white. I have also purchased eggs of three other breeders and the stock is all the same way. I have a friend who purchased stock of a reliable breeder and his birds have white wing tips. The males have these white tips more frequently than the females. I can't find anything in the Standard that would lead me to think they should have this white, but I cannot get any stock that does not show it.

A. (1) The white is a defect and a very troublesome one. It takes a long time to breed out this tendency to outcropping of white in wings. Only persistent effort and the use of all possible strength of color in the breeding stock will eliminate it.

Q. (2) Where can I get a book on pheasant breeding?

Brooklyn, Iowa.

W. F. A.

A. (2) Write to Poultry Investigations, United States Department of Agriculture, Washington, D. C.

Feeding Leghorns.

Q. I have 200 S. C. White Leghorns, mostly pullets, and I wish to know how to use following feeds. I have plenty of corn and oats, a few bushels of wheat. Can get bran, shorts, corn meal, beef scraps, oil meal and alfalfa meal. How shall I mix dry mash? I have an oat sprouter. Should the sprouts take the place of one of the regular feeds? Have a lot of small potatoes. How should these be mixed to make a wet mash three times a week? What should the morning feed be and how much?

Rantoul, Kas.

A. D.

A. Better save the wheat. If it is not good enough for making flour or wheat meal for home use, it will help feed the young chickens next spring.

Mix the corn and oats, bushel for bushel, and feed twice a day in litter, morning and afternoon. A little under an ounce per hen at each feeding is about right. Feed according to appetite. If they want more or less, feed accordingly. The sprouted oats will be an excellent addition to the ration and may be fed all they will clean up at noon. When feeding the sprouted oats freely you will find that they do not require quite as much hard grain. The potatoes should be boiled soft, jackets and all, and then made into a crumbly mash with the dry mash mixture. Give in place of one feed of hard grain what they will clean up quickly. Make the dry mash mixture of 100 lbs. each of bran, shorts, corn meal; 75 lbs. beef scraps, 25 lbs. oil meal. Do not think you will need the alfalfa which you indicate is difficult to get.

Poultry and Squabs for a Living.

Q. (1) Can I make any money on 10 acres of land in the poultry and squab business? Want to keep White Leghorns and pigeons.



Aluminum, numbered to suit, with large raised figures. Postpaid 100-60c, 50-35c, 25-20c, 12-15c. Initials extra, 10c per letter per 100; 50 or less 5c. More than one initial with cut figures. Circular free giving price on Small Chick, Superior, Riveted and Pigeon Bands. Sample for stamp.

T. CADWALLADER Box 802 Salem, Ohio

Hens Will Serve You Well If Served Sprouted Oats

Get the Facts About Our Grain Sprouter. Learn What It Has Done for Your Brother Poultry Raisers and What We Guarantee It for You

MAKE three bushels of fresh, green, tempting feed from one bushel of oats, wheat or rye. Turn loafing hens into money-making egg producers—have eggs to sell when prices are highest—get fertile eggs for spring hatching—all at a big saving in feed cost. Every poultry raiser should have a "Successful" Sprouter. Saves its cost in a few days' feeding and then keeps on saving money and doubling up your profits for a lifetime service.

Just what's needed in fall and winter to keep hens laying and needed again in the spring to make chicks grow into lively profit-producing birds. Write at once for complete 1918 offer. Sold on trial and pays for itself before trial runs out.

"SUCCESSFUL" Grain Sprouter Practically All Steel—Made in Sections

Double steel walls—metal trays. There is nothing else like the "Successful" Sprouter. It's a brand new idea. Cannot be compared to wooden sprouters. It is warp proof—shrink proof—swell proof—nothing in it to rot—food cannot mold.

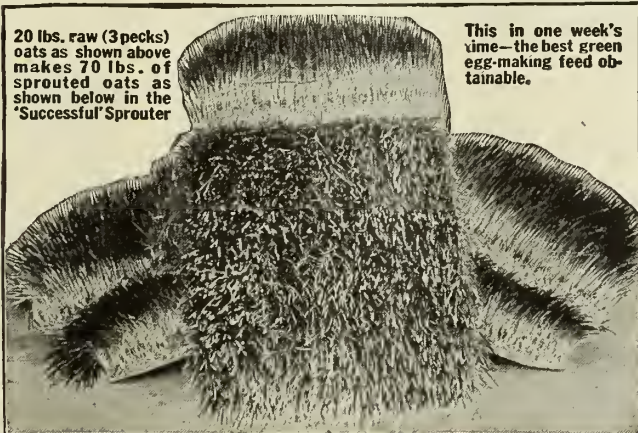
Made with glass doors. Each section a separate compartment. Start with just enough sections for your needs and add more as you need them.

Here is a money maker that proves its worth right at the

Test seed corn and start your plants the easiest and surest way with this Des Moines Grain Sprouter.

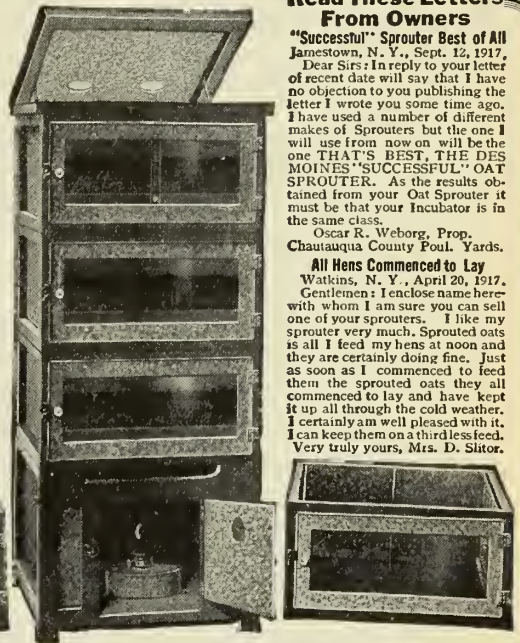


20 lbs. raw (3 pecks) oats as shown above makes 70 lbs. of sprouted oats as shown below in the "Successful" Sprouter



This in one week's time—the best green egg-making feed obtainable.

SPROUTED OATS



Read These Letters From Owners

"Successful" Sprouter Best of All
Jamestown, N. Y., Sept. 12, 1917.
Dear Sirs: In reply to your letter of recent date will say that I have no objection to your publishing the letter I wrote you some time ago. I have used a number of different makes of Sprouters but the one I will use from now on will be the one THAT'S BEST, THE DES MOINES "SUCCESSFUL" OAT SPROUTER. As the results obtained from your Oat Sprouter it must be that your Incubator is in the same class.
Oscar R. Weborg, Prop.
Chautauqua County Poul. Yards.

All Hens Commenced to Lay
Watkins, N. Y., April 20, 1917.
Gentlemen: I enclose name here with whom I am sure you can sell one of your sprouters. I like my sprouter very much. Sprouted oats is all I feed my hens at noon and they are certainly doing fine. Just as soon as I commenced to feed them the sprouted oats they all commenced to lay and have kept it up all through the cold weather. I certainly am well pleased with it. I can keep them on a third less feed. Very truly yours, Mrs. D. Sitor.

start. It has increased egg yields 50 per cent—in some localities more. Takes only 15 minutes a day of your time. Sprouts oats in 24 hours and then grows an inch of crisp green sprouts every day. One feeding of sprouted oats at noon each day is all that's needed to increase the egg yield. And at the same time you cut your feed cost one-third and settle your green feed problem once and for all. Write for full details.

Write Your Name in the Coupon or on a Postal and Mail Today for Circular and 1918 Offer

We could show you scores of more letters like these, but why not show you the "Successful" Sprouter itself and let you see how it can save money and make money for you every day you use it. Famous booklet, "Proper Care and Feeding of Little Chicks, Ducks, Geese and Turkeys," 10 cents.

Write Today

Des Moines Incubator Co.
561 Third Street
Des Moines Iowa

Please send me circulars and your 1918 offer on the "Successful" Grain Sprouter.

Name _____

Address _____

City _____ State _____

Des Moines Incubator Company
561 Third Street
Des Moines, Ia

Incubator for \$300

OVER 850,000
IN USE!

In simplicity, ease of management and certainty of results no incubator in the world equals it. Everything controlled by living hens. It's the one incubator that can't make mistakes. This year we are making a drive for the

Million Mark

Mrs. Grant, Md., writes: "Beats other incubators all to pieces." Thousands of other testimonials. Artificial incubators cost four times as much and are not as satisfactory. No freight to pay.

To reach the million mark in 1918 we will send you a Special Introductory Offer with our Free Catalog. Agents wanted.

Natural Hen Incubator Co.
1349 Constance St., Dept. 4 Los Angeles, Cal.

BROODER \$1.25

Holds 25 to
75 Chicks

A strictly Sanitary
Fireless Brooder that
is used by poultrymen
everywhere.

OVER 30,000 NOW
IN USE. Will Brood
25 to 75 chicks. Chicks
can not crowd nor
smother. If you have
large or small flocks
you should have this
Brooder.

Sent anywhere for \$1.25. Five for \$5.00
Order direct from this ad.

Ask for our Chick Book how to raise chicks with
success also our prices on baby chicks and stock.
It will pay you to get this valuable book before
ordering your chicks and Brooders. This book is
free. Send today.

JAS. W. HOUCK CO., Box 20, Tiffin, O.

A. (1) We would not advise a beginner under present conditions to invest his money in such a venture. To make squab raising profitable it is necessary to have plenty of first quality grain at reasonable prices. At the present time such quality grain is not available for the purpose. Unless squab-breeding pigeons are fed on sound grain, the young do not thrive and losses are frequent.

Q. (2) How many hens could I raise the feed for on ten acres of medium land?

A. (2) Each hen will require very nearly 45 pounds of hard grain and 47 pounds of mash mixture per year. Average yields of grain per acre in your state are: Corn, 34 bushels; oats, 33 bushels; barley, 29 bushels; wheat, 16 bushels; rye, 17 bushels; buckwheat, 18 bushels. Figure it out for yourself. There are 56 pounds of shelled corn in a bushel; 32 pounds of oats; 48 pounds of barley; 60 pounds of wheat; 56 pounds of rye; 52 pounds of buckwheat, in your state—42 for United States standard.

Q. (3) I have good railroad service to ship squabs and eggs to Chicago. Is it best to sell thru commission men or direct to hospitals and hotels?

A. (3) To hospitals and hotels if you have a regular supply and can get the trade.

Q. (4) Would it be advisable to raise squabs over a hen house?

A. (4) No.
Q. (5) Which is the best way to build a cheap and satisfactory poultry house for farm use?

A. (5) See book "Open-Air Poultry Houses for All Climates," obtainable of our book department at 75 cents per copy postpaid.

Q. (6) Do you know anything about the Ford tractors to work the land?

A. (6) Have not yet seen one in use. Believe the first output was all for export. There are many kinds of tractors and where land is suitable they do excellent work. A ten-acre farm could hardly support one, unless you could get outside work for the tractor.

Q. (7) Would it be best to keep a horse? Arlington Heights, Ill.

A. H. A. (7) You will probably need one. Much depends upon how you are situated. We have a 30-acre farm and find it much more economical to hire such horse labor as we need. We get ample manure from our poultry and two cows. For getting to and from market and

for getting about we find an automobile much more economical than a horse.

Feeding Problems in Montana.

Q. Will you please give me the food values on potatoes and other vegetables as compared with grain and feed? We can get 100 lbs. of each of following as stated: Potatoes, \$2.65; rutabagas, \$2.25; Hubbard squash, \$3; carrots, \$2.25; pumpkins, \$1.50; cabbage, \$2.75. Grain as follows: Wheat, \$4.25; oats, \$3.65; cracked corn, \$5; whole corn, \$4.85; shorts, \$3; bran, \$2.75; gluten, \$4.60; ground oats, \$3.80.

We receive 75 cents a dozen for eggs; 30 cents a pound for springers; 25 cents a pound for hens. There is not much left even when hens are in full lay, not counting your time anything. Alfalfa is \$1.65 per 100 lbs. and straw 75 cents a bale.

Butte, Mont.

J. C.

A. Cheer up. It might be a lot worse. Would not use any of the vegetables for poultry feeding at prices stated, unless it be the pumpkin, they are more useful as human food and are too high in price to feed to fowls. Boiled pumpkin will be a good addition to the mash, say about 15 per cent. Cut alfalfa will be relished by the birds. Would not feed wheat of sound quality, it is needed for flour making. Would feed for hard grain a mixture of equal parts of whole corn and oats. For mash mix equal weights of bran, shorts, ground oats and corn meal. If you cannot get beef scraps or fish meal at reasonable prices, try to buy sheep and hog plucks—heart, lungs, etc.—of the butcher. Boil this meat until it can be readily cut or broken up into small pieces. Use meat and the liquor for mixing mashes. You are getting easier prices than we are in the East and selling your produce at much the same prices as we received on same date.

Feeding Oats.

In November American Poultry Journal, page 1079, Mr. Beale states that he would like to know how to get fowls to eat oats. I always have a hopper containing whole oats where the birds can help themselves at will, but, like Mr. Beale's birds, they do not eat the oats if they can find anything else. I also keep a hopper of ground oats for them to

YOU CAN'T BLAME THE HEN

when she refuses to sit on a lousy nest, with lice torturing her and sucking her life blood—she must get out or die. No matter how clean the nest, it is absolutely essential that you dust the sitter and make sure that she is free from lice. Many lice remedies also kill the hen, spoil the eggs, and injure the baby chicks, but you are safe when you use



"Too Lousy
For Me"

THE OLD RELIABLE

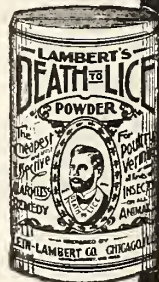
Lambert's Death to Lice

30 YEARS THE UNIVERSAL FAVORITE

Successful breeders everywhere will tell you that there is nothing equal to Lambert's for sitting hens. Its use will insure a good hatch, (if eggs are hatchable) and start the youngsters clean and comfortable.

Sold by Poultry Supply Dealers and Druggists everywhere at 100 oz. \$1.00; 48 oz. 50c; 15 oz. 25c. Large trial sample of Powder or Head-Lice Ointment, with booklet by D. J. Lambert, 10c. Send today.

THE KLEIN-LAMBERT CO., Mfrs., 601 Traders Bldg., Chicago



feed on when they like, and they eat considerable this way. My hopper is a long trough, and covered with 1½-inch poultry netting, which rests on top of the oats. This is the best hopper I have used. My main stunt in feeding oats is to soak them over night and feed them in the morning. I fill a 12-quart pail nearly full of oats, put in a handful of air-slaked lime and stir it up; then cover with hot water, let it stay on the stove until morning. This gives a good bucket full of feed. My 150 birds will clean this up in half an hour.

I also fill a five-gallon can with a mixture of ground oats, bran and shorts, put in a big handful of meat scrap and what skim milk we have, then enough water to make a mash. This for noon feeding. Have barley and wheat in automatic hoppers.

Menan, Idaho. Y. H.

Buttermilk for Chickens.

Q. Is good fresh creamery buttermilk worth from 8 to 10 cents a gallon for feeding poultry? Will it take the place of beef scrap and fish meal? How much is needed for 120 hens? Eau Claire, Wis. W. M.

A. Buttermilk is excellent for poultry feeding. It should be worth the price named. It will not wholly substitute for beef scrap and fish meal, but will reduce the quantity required by quite one-half. Use the buttermilk to mix the mash. The quantity required daily will vary. You can probably make good use of one or two gallons a day. Try it out and see how much is required to make a moist crumbly mash, with your mash mixture, about what the birds will clean up in 15 to 20 minutes.

Wants to Get Fertile Eggs.

Q. Will some reader advise me about penning hens to get fertile eggs? I never tried it. One of my neighbors did and failed entirely. Do not know the cause. I have two good males and over 200 hens to choose from. I want the eggs to be fertile and to get as many as I can. How large a yard is needed? What should be fed to keep them healthy? Spring Hill, Kas. C. D. M.

A. Provide a separate house, or pen, and yard for each of your male birds. Allow each male not over 15 of the best females you can select for mates. Give each pen a good-sized yard, say about 12x150 feet. Feed one of the good mashes recommended in this journal and give scratch grain of corn and oats. You will find feeding questions answered several times in this issue, in this department and in others. Keep the birds busy by supplying them straw litter to scratch in. Scatter part of their hard grain in the litter.

Weak-Kneed Cockerels.

Q. I have two White Rock cockerels, which were hatched in April. They grew very rapidly as chicks and developed large frames but not much flesh. They are a little weak in the knees and knock-kneed. Have been giving them pills of: iron sulph., 1 grain; sulph. quinine, 1 grain; strychnine, 1 grain; phosph. lime, 5 grains. Also have been applying alcohol to the legs and giving them massage. One has straightened out in legs, but still eats squatting on his haunches; the other is much better, but still weak in one leg. These birds are from a \$10 sitting and I want to save them. Both have fine type, good head and comb.

Can you recommend any other treatment which I could use to bring them around and put on muscle? Would you hesitate to breed them? They are fine birds otherwise and I do not think it is in the breeding, but the way they were raised. They were incubator hatched and brooder reared and fed on Cornell ration.

Ridgewood, N. J. R. L.

A. We would not want to breed such birds and think it is a waste of time and money to doctor them so long. The fault was in the feeding and management during growth. They did not get enough mineral food and good greens and did not rough it enough. It is too late now to try to put into them what they did not get during the most important stages of growth. You can, of course, continue the treatment for a few weeks longer, and feed sprouted oats, crushed oats, fish meal mash, and try to make them exercise in litter for part of their grain. We have no doubt but



Colored Big Double Number Poultry and Pigeon Bands. New coil Baby Chick Bands—not numbered. 12 colors. Try the modern way, you will like them. Very efficient. SAMPLES FREE.

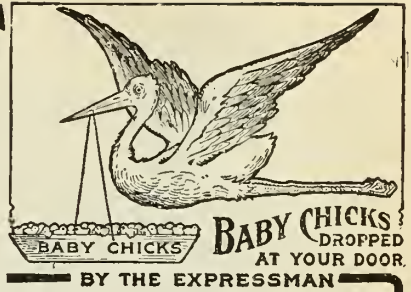
ARTHUR P. SPILLER Box A Beverly, Mass.

For Nine Years

this wise old bird has been the emblem of

Better Hatched BABY CHICKS

On over 12,000 trips he delivered over 2,000,000 chicks to the doors of our satisfied customers.



His Services Are Needed This Year More Than Ever Before. America responded nobly during the past year to the call for help from the suffering countries across the sea, but our efforts must be redoubled next year, for never before was there such a scarcity of poultry.

Order Your March Chicks Now

from our flocks of pure bred, farm raised S. C. White, Brown and Buff Leghorns, S. C. Black Minorcas, White and Barred Rocks, S. C. and R. C. Reds, White Wyandottes, S. C. White and Buff Orpingtons.

Send for Our Handsome Catalog which gives prices and tells of our methods.

THE CO-OPERATIVE BREEDING & HATCHING CO., Box 11, TIRO, OHIO

You Needn't Board Our Leghorns Free All Winter—THEY LAY EGGS



"The Proof of the Pudding is in the Eating"

Best day's laying in WINTER by 400 pullets, 324 eggs; another lot of 200 hens paid \$1,124 profit. They will lay as well for you. TESTED 10 YEARS. If you want the WINTER EGG AND BIG PROFIT, buy of the breeder that can give the unquestionable PROOF. 20,000 chicks, selected GUARANTEED FERTILE hatching eggs and stock at a LET-LIVE price. Get my big free catalog. Write today **OSEE C. FRANTZ FARMS, ROCKY FORD, COLORADO**

Our List of Winnings

at America's leading shows would fill this page. Our customers are making some fine show records also. They say that our methods of fair dealing bring them back year after year.

Morris White Orpingtons

are the proved leaders in the show room, and we can sell you a winner at a reasonable price. We have hundreds of show birds and breeders for sale, and can satisfy you in any line.

Hatching Eggs

Many a setting of eggs has won a valuable reputation for our customers. We have the highest class matings and you get what you pay for.

Baby Chicks

will be hatched from any mating you desire, and many rather buy them than hatching eggs. Our birds are very vigorous and produce strong, lusty chicks.

Send for Catalog

Morris Poultry Farm

H. Ravensley, Manager

Lebanon, Ohio

Brown Anconas A NEW Variety

MORE striking in color, but retaining all the good qualities of the black and white Anconas.

No Stock or Eggs for Sale until next Fall

I. H. MURRAY

Originator

11337 Longwood Drive : CHICAGO, ILLINOIS



MINORCAS Giant S. C. BLACKS

At three of Indiana and Ohio's greatest fairs my birds won for me: 9 Firsts, 10 Seconds, 8 Thirds and 3 Fourths. Place your order now for your coming shows. Now is a good time to get your breeders. Write today and save money. **JOHN L. BROWN, 1515 W. 7th Street, ANDERSON, INDIANA**



Takes all the Gamble from the Hatch

You *don't speculate* when you set a Buckeye.

You *know* you are going to get the best hatch possible from your eggs.

And you don't have to "run" it. It runs itself. Works without watching. Hatches with mechanical exactness. Produces guaranteed results.

All you have to do is to turn the eggs at the proper intervals and keep the lamp trimmed and filled. Leave the rest to the

BUCKEYE

THE PERFECT INCUBATOR

Whether you are starting in the poultry business or enlarging the plant you have, you want to be sure of your ground at every step. You can't afford to experiment. You don't need to. We have done all the experimenting for you. The Buckeye Incubator is standardized—perfected. It will hatch more chicks and better chicks than any other incubator, the first time you use it. You can't ask any more than that.

A Guaranty That Guarantees

The Buckeye is guaranteed to hatch more chicks, and stronger chicks, than any other incubator. To operate satisfactorily in any temperature down to freezing. To require no artificial moisture, and no attention to the incubator from the time a hatch is started until it is finished. Perfect construction of all mechanical parts is also guaranteed; any Buckeye or part thereof that does not fulfill our guarantee will be replaced without question any time within 40 days.

The Buckeye is endorsed by all agricultural colleges and experiment stations. Over half a million are in use in all parts of the country. They are found in the plants of the big breeders and market poultrymen and in the hands of the beginners.

What these users, big and little, know and say about success with Buckeye equipment is embodied in our new catalog. It is a wonderful story of the growth of small businesses and expansion of big plants told by Buckeye owners in their own words.

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THE BUCKEYE INCUBATOR COMPANY

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SPRINGFIELD, OHIO

PACIFIC COAST BRANCH: BOX 11 OAKLAND, CALIFORNIA

Takes all the Risk out of Chick Raising



Ends the frightful chick mortality that is the despair of the poultryman; raises three chicks where one grew before; pushes the little fellows to maturity in profitable time—and with a quarter of the labor and half the cost.

Successful brooding is assured, and your chicken problem is instantly solved by the use of the

STANDARD Colony Brooder

The most practical and economical brooder ever invented. Broods 100 to 1000 chicks at a cost of less than six cents a day. Burns soft or hard coal. Self-feeding, self-regulating and everlasting. Burns 24 hours from one filling. Reduces the cost of installation and operation to less than a fourth.

Simplicity is the striking feature of Standard construc-

tion. Just a solid cast iron stove, a galvanized steel hover, and the apparatus for automatic feeding and heat regulation. It has no curtains or wooden walls to harbor vermin and dirt. No corners where chicks may be crowded and killed. Easy to keep clean. Provides perfect ventilation without drafts. Broods a few chicks or a thousand equally well

Write Your Own Guaranty

You know what you want a brooder to do for you. Add your demands to our claims. Write it all down. We'll sign it. And if the Standard Colony Brooder you buy does not meet all your requirements and our claims, we will return your money without argument.

The Standard has won the endorsement of all agricultural colleges and experiment stations. In actual use by more than 30,000 breeders, it gives universal satisfaction. The tremendous increase of sales is largely due to repeat orders and recommendation to others by Standard users. Nearly 6000 dealers sell them under our unqualified money-back guaranty, and not one Standard has ever been returned.

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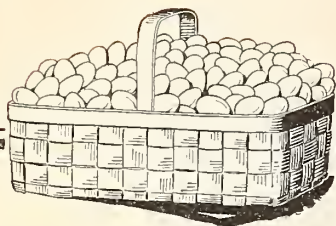
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White Wyandottes

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that in time you might get those birds into pretty fair shape, but the cost to you in time, money and trouble would buy you two fine strong cockerels from almost any reliable breeder.

"Facts About White Diarrhoea."

Q. Where can I obtain copy of "Facts About White Diarrhoea" by Dr. Woods? Kalamazoo, Mich.

A. It is out of print. Revision is published in book entitled "How to Raise Chicks," cloth bound, 75 cents a copy postpaid, to be obtained of American Poultry Journal book department.

Breeding Related Stock.

Q. (1) I would like to know if I could safely breed a male bird to his full sisters? The males are winners. All are healthy.

A. (1) Yes, if the birds are well matured, healthy, vigorous and do not possess similar faults.

Q. (2) Would such a mating be all right to produce show birds? The cockerel is good in head, comb, breast and saddle, but not very long legged. The pullets are large, with nice full breast and good body. Would it be better to get a cockerel that is not related to the pullets?

Harmony, Minn.

A. L.

A. (2) You have to breed related stock in order to get show birds. Crossing an unrelated male on those pullets would upset things so that it would take you two or three seasons of close inbreeding to get back again. From your description believe that you will get good results by mating the birds described.

Disease of Brain and Nervous System.

Q. I have a Buff Wyandotte cockerel that acts very strangely. He turns his head sideways when he eats and when anything startles him will turn his head upside down and put the back of it on the ground. This will last for a minute or two and then he will straighten up and go to eating as if nothing was the matter. At other times he seems to lose entire control of himself and will run backward and flounder on the ground for a short time, then lie there a while, get up and go about seemingly perfectly well. He eats heartily. His comb is red and he looks healthy. His eyes are clear and even when his head is upside down he will sing and look around. When he is on a box or other elevation and he tries to get down, the spell will come on him and he will fall down. Can you tell me what is the trouble? Do you think him unfit for food?

Shelby, Mich.

B. G. J.

A. The trouble is disease of the brain and nervous system. Possibly, as in epilepsy in human beings, overeating, and intestinal irritation from other causes, may aggravate attacks and increase their frequency. It is not uncommon where birds are bred from stock that is carelessly inbred, and where both parents have similar faults of the nervous system. Inbreeding of diseased stock predisposes to this trouble. In some cases various parasites are a contributory cause to such nervous troubles; parasites which find lodgment in the nervous system. There is no cure. It will be best to kill the bird and

burn the carcass. Such birds should not be bred nor should they be eaten.

Weight of R. I. Red Baby Chicks.

Q. What should be the weight of Rhode Island Red baby chicks? I bought fifty last spring. One-half of them did not average over three-fourths of an ounce each in weight when four or five days old. All died but four cockerels and nine pullets. All are runts and average about three to three and one-half pounds each. Never saw such small chicks in my life. They did not get chilled after I got them. Weather was excellent when they were shipped, about 60 to 70 degrees. Some were pasted up when they arrived. I gave them good care and fed them well. Raised a flock of 50 chicks before this and did not lose one.

St. Louis, Mo.

J. S.

A. The chicks ought to weigh from one and one-half to two ounces each when newly hatched and about the same at four days old. They might shrink a little during shipment, particularly if mishandled and overheated during transportation. They should not weigh as little as you report. Sometimes when the entire incubator lot appears all right, a part of the chicks will fail to develop properly from no apparent and recognizable cause; while the balance of the same hatch prove all right. We believe that if you had taken this matter up with the seller soon after the chicks arrived he would have made an adjustment if facts were fairly presented. It is rather late to enter a complaint now. Sometimes such results occur in an incubator run of eggs from immature pullets, and often the cause is some mishap during incubation which has passed unnoticed and remains unexplained.

Toulouse Geese.

Q. (1) How many Toulouse geese may be mated with one gander for good results?

A. (1) Not more than three or four females to a male.

Q. (2) How much sprouted oats should be fed to fowls and when is it best to feed it?

A. (2) What they will clean up quickly once a day. Feed at noon. Feed the oat sprouts, roots and all, when sprouts are about an inch and a half long.

Q. (3) How should flowers of sulphur be fed?

Bates, S. D.

J. W. B.

A. (3) One tablespoonful in each quart of mash every two weeks, generally in spring of year.



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They out-laid the 2600 birds in the five Missouri Laying Contests, won the three Silver Cups hand running for Winter Month Laying, and best of all, reports show that they actually do lay, and lay well in all parts of the world under a great variety of different feeding, climate and housing methods, proving that their laying qualities are bred in the bone. Birds of such breeding, however, are not produced by the thousands. Foundation stock is our aim, not over 10 birds to a customer.

Big, Husky, Healthy, Farm Raised, Pedigreed Cockerels

that transmit the lay to their offspring \$5 up. Cockerel and stock circular free. Large 40 page catalog 10c.

J. W. PARKS

Box J

ALTOONA, PA.





We are builders, and each one
Should cut and carve as best he can.
Every life is but a stone,
Every one shall hew his own.
Make or mar shall every man.

Anon.

WE SAT before the blazing logs in the dusk of a chilly autumn evening talking of days present and past. The light from the fire lit up the characteristic features of the grand old man of true, principle and honorably lived years, now nearing four score. Moonbeams filtering thru groves of tall locusts and eastern windows made strange fantastic pictures on walls and paneling. There was a lull in the day's activity an hour or so before the serving of the evening meal which tended to give to thought and conversation a certain reverence and feeling.

We had talked of the war and the khaki-clad grandsons, of the leveling influence of armies and training camps. "There is one lesson with which they must all come in contact," said my companion, "and one which the world sadly needs—a just consideration for others."

"Not many years ago," he continued, "I sold a fine farm to a man with two sons. The sons were both married—fine, broad-shouldered specimens of manhood. There appeared to be a good spirit of co-operation between the father, his sons, and their families, and as they had decided to work together in their undertaking, I looked upon the venture as one of more than ordinary interest and ultimate success."

"In the course of the next few years I met the father occasionally and felt at a loss to understand the apparent vein of discouragement which even a short conversation with him disclosed. He was not exactly complaining, but he showed plainly a condition of mind which bespoke worry. Perhaps six or seven years passed when one bitter cold evening in the middle of winter, a horse and buggy rumbled over the frozen ground to our side door and one of the sons appeared from within. After he had removed his greatcoat and rubbed his frost-tinged fingers a bit, he told me his errand. His father was sick in bed, quite sick—perhaps his last illness, and he and his brother were not quite satisfied with the way their business was going. They each felt that the other was getting a little the better part of the bargain. Their father had tried to settle the difficulty, but they could not come to terms. One of them had arranged to bring suit against the other for damages and let the courts settle the matter, when the old father, as a last appeal, asked that they call in two level-headed men who understood the original plan by which they were to conduct the business and see if they could not render such advice as would be fair for all concerned."

"The next morning was very cold and I drove the ten or twelve miles out to the farm in question, with a trustee of the village church who had been chosen as the other adviser. We discussed the matter as we drove along, agreeing perfectly in the one important point of the question which we were being asked to settle. We both realized that we could not settle something upon which they were unwilling to compromise."

"At the house, everything was as pleasant as the two wives could make it. They were both fine women who could see good even while overlooking a great deal of bad. They served us an extra good dinner, roast chicken,

vegetables of various kinds, cranberry sauce and pumpkin pie, with hot coffee, and after we had talked a bit with them all after dinner, we sat around the chunk stove and took up the matter for which we had been called together. They had asked me to be spokesman and I attempted it, tho a bit unwillingly. So I told the two brothers, that we could only advise them to each give up a little in what they considered due them, and in this way reach a peaceable settlement of the matter. I told them that in the end they would have to do this anyway, even tho they went to law and attempted to fight it out in the courts.

The final settlement would be between them and each would have to show a willingness to consider the rights of the other.

"We all talked it over for some time, told some stories, and laughed over it and they finally agreed with us that they would overlook their differences and begin over again by each of them trying to show a more just consideration for the rights of the other."

"Before going away I went upstairs to see the father, who greeted me with a look of anxious inquiry on his face. When I told him the decision which his sons had made, his face lit up as tho a great burden had been taken from his shoulders. He told me he had spent his entire life bringing up these two sons and he felt as he was about to relinquish it that his life had been a failure if they could not be brought to feel the justice of consideration each for the other."

"Yes, we need a truer spirit of co-operation in this world," concluded the sage adviser, "and a deeper sense of justice in the rights of others."

I had not been in the old town more than once or twice in many months, and on those

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"Am so well pleased with Reliable Incubators and Brooders that I'm enclosing draft for 35 more 300-egg size and 25 hovers. Sold 65,000 chicks this spring; have 15,000 more hatching. Many of them sold." —Mrs. Clara Colwell, Smith Center, Kansas.

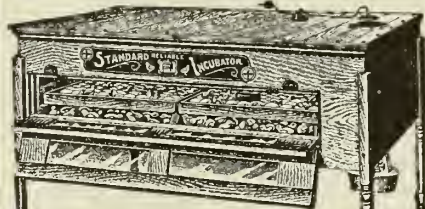


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Built of thoroughly seasoned redwood, top and bottom tongued and grooved; has double walls and top heavily insulated; double glass doors; roomy chick nursery; strong legs. May be equipped with patent turning tray, if desired.

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The Reliable utilizes both the hot air from the lamp and the heat from large copper hot-water tank extending full length of egg chamber—a double safeguard against chilling—saves half the fuel. Patent heat regulator, tested by U. S. Government standard, automatic supply of moisture and ventilation, highest quality construction throughout, make the Reliable as nearly failure-proof and trouble-proof as an incubator can be built. Successful in any climate or altitude. Shipped ready to start all but attaching legs, which come detached to make compact package to save freight cost.



Brings you this high quality 60-egg Reliable Special Incubator. Built with same care and has same perfect regulating system as Standard Reliable. Double walls, outer wall of thoroughly seasoned wood; mahogany finished, hot air heated. Guaranteed to hatch any egg the hen can hatch. A real bargain—good work for years. I'm responsible and stand behind it. Order Now! Send cash or P.O. order.

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Built in any capacity desired, hot air or hot water, from 80-eggs to 2,000-eggs. Sold at lowest price consistent with highest quality.

Reliable Brooders are necessary to poultry success. They save the chicks.

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Ralston Purina Co., 801 Gratiot Street, St. Louis, Mo.

occasions had missed the sunny countenance of Mary, the proprietress of the fruit stand, who in the years I had known her, had lent an air of hospitality and good cheer to the town. All the old residents, the summer people and even the occasional visitor knew her, and the acquaintanceship was so pleasing that anyone walking on the opposite side of the street would be sure to cross over in order to pass the time of day with Mary. Unless one was too overburdened with bundles he would buy fruit or vegetables or at least a bag of peanuts from the true daughter of sunny Italy who always saw good in the weather, the times, or the neighbors, as the case might be. If we were having an abominable spell of weather, Mary would say, "Wasn't it jes' nice las' week?" or, "It's clearin' now. We're goin' hav' plenta gude weather by an' by."

The car slowed down as we neared the church and then came to a standstill. The motorman had sounded his gong and the conductor was out on the street endeavoring to see a way thru the crowded line of carriages and automobiles which filled the street. As he re-entered the car, in reply to the looks of inquiry directed toward him by impatient passengers, he said, "They are saying a mass in there, this morning for the repose of Mary's soul."

There was a strange hush in the car. No one seemed worried about being behind time at the office or too late for the train. The impatience of a few minutes before seemed to have vanished. Soon the gongs sounded and we moved on down the long street that leads to the town square and by the little fruit stand with its closed door and drawn curtains. I kept thinking of Mary, as I had talked with her many times, of the lights of true living which she had revealed to me.

Once I had brought her news of the actor neighbor who had been stranded and ill in the big metropolis and she asked for the address at once to send him "jes a little money." She told me how on many occasions he had asked her for a loan of five or ten dollars when out of an engagement, or after having been ill, how she had loaned him the money without security, how sometimes it would be months before she would hear from him and then one day a letter would come from New York, or Chicago, or London, or Paris, with the money enclosed and "a nic' letter tellin' how it had jes' saved him, and so it jes' makes me glad to have it help him."

More than a quarter of a century ago Mary set up a peanut stand in the public square. Unlike Elbert Hubbard's peanut vender she had the courage to exercise initiative and so added popcorn, fruits and vegetables to her list of wares as the business grew, and in the course of time sent out carts and wagons thru-out the surrounding countryside.

Mary was a born optimist, an honest and able financier, and an artist in the truest sense of the word—since she turned life itself into an art. Hers was not a separate thread of life but a closely woven fabric in which the common needs, tribulations and possibilities of humanity were firmly interwoven. Hers was a vision of the close relationships which bind all humanity together—a unifying influence which grappled friend or acquaintance "with hooks of steel" in the common bond of human relationship. An uncrowned queen, radiating an unequalled force in the subtle and far-reaching influence for world betterment, the life of Mary will go on in ever widening circles until it becomes a part of the lives of all people, for Mary, having looked below the surface, saw life, felt its strong pulse, knew its depth of feeling, and was glad in the joy of living life.

WAR TIME RECEIPTS BY AMERICAN POULTRY JOURNAL READERS.

INDIAN PUDDING.

Mix four tablespoonfuls of Indian meal with cold milk and add to one pint of boiling milk in a double boiler. Add also three tablespoonfuls of minute tapioca. Cook until it begins to thicken and add one pint of cold milk, two beaten eggs, one-half cup of molasses, a little salt and cinnamon. Allow to come to a scald, then pour into a pudding dish and bake slowly for several hours. After cooking an hour or so in the oven, add a cup of cold milk and a cup of seeded raisins. Serve hot.

* * *

GINGER BREAD.

Add one teaspoonful of baking soda to one cup of molasses and stir in one-half teaspoonful of salt and one teaspoonful of ginger. Add also four tablespoonfuls of melted chicken fat, a cup of ground bread or cracker crumbs, one-half cup sour milk or cream, one beaten egg and sufficient flour to thicken. Bake in a moderate oven.

* * *

FILLING FOR DATE PIE.

Press one and one-half cups cooked dates thru a sieve, add two beaten eggs, a little salt and nutmeg, one pint of fresh milk and two tablespoonfuls of sugar. Line deep pie plates with plain paste, pour in the filling and bake in a moderate oven.

* * *

RYE MEAL MUFFINS.

Rye meal is considered much better than rye flour for making muffins. To one and one-half cups of the meal, add one-half cup white flour, one teaspoonful of salt, one and one-half teaspoonfuls of baking powder, two eggs, two tablespoonfuls molasses and sufficient milk to make a stiff batter. Bake in hot oven.

* * *

WAR CAKE.

Add one teaspoonful of soda to one cup of molasses. Beat in two eggs and one-half cup of sour cream or milk. Add also a teaspoonful each of ground cinnamon and ground cloves, and one-half cup of melted chicken fat. If there is any cooked oatmeal left from breakfast, add it to the cake mixture and sift in sufficient flour to make a stiff dough. Add a little salt and one cup of seeded and chopped raisins and bake in a slow oven.

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I am now in a position to supply your wants in either exhibition or breeding birds of above varieties. My prices are reasonable.

Write for particulars.

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A GOOD WINNING WILL PROFIT YOUR SALES FOR THE SEASON

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GOOD MATINGS and GOOD HATCHES WILL IMPROVE YOUR FLOCK



Come to Sunswick for all grades of S. C. Buff Orpingtons. We can provide Winners raised from our pedigreed stock.

We can provide splendid Breeding Birds for your yards. We can provide Hatching Eggs from grand mated pens.

Hatching Eggs, \$5, \$10 and \$20 per setting. \$20 per 100 eggs. today. "We meet the War Times by giving special values."

Ask for Catalog and Mating List. Write

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Buff Orpingtons

Remember — I have furnished winners for almost every show of any importance in America, including Madison Square Garden, Chicago Coliseum and Panama-Pacific Exposition I have never owned as many high-grade show birds at one time as I now have. Write for prices, on what you will need to complete your show string. O. M. ABBOTT, Box 10, Whiteland, Ind.

IS THE MALE HALF OF THE FLOCK?

By CHAS. A. SIMMONDS, Camp Point, Ill.

THE influence which a breeding animal will have upon the uniformity and individual characteristics of its progeny depends largely upon the way in which it was bred. The proof of this statement is to be seen in the farm flocks and herds where a pen-bred and quite frequently line-bred male is mated with cross-bred females. The progeny of such a mating will nearly always exhibit the family characteristics of the sire much more than those of the dam. This is especially true where the male is of an old line-bred breed as Jersey or Angus cattle or Suffolk swine.

Considering that improvement in established flocks is generally attempted by the purchase of a fine male rather than a female, that this male is nearly always the result of line-breeding and the females to which he is mated the products of out-breeding, which makes the male prepotent over the females, it is not strange that some should regard the male as more than half the flock.

Thos. Shaw, professor of animal husbandry in the University of Minnesota, in his volume on "Animal Breeding," says: "The oft-repeated statement 'the male is half the flock,' does not tell the whole truth, for he may be much more."

Dean Davenport, professor of ther-matology in the University of Illinois, writes: "It has become a proverb that the sire is more than half the herd, but he is far more than that."

Another in scholastic authority opines that the sire is "three-quarters of the herd."

While from one point of view there is some warrant for these dicta, it is to be hoped that this progressive apotheosis of the sire may stop short of utter elimination of the dam. Mindful of the fact that matings are made up of individuals, let us ask, What are the respective parts of sire and dam in propagation?

That Athena sprang "full-grown and full-armed" from the brain of Zeus is a myth of Greek scripture. This experience of Father Zeus seems to have been unique.

None of the other greater gods of the Hellenic holy writ is rumored to have attempted to repeat the stunt of the "Father of Gods and Men." However, more was to be expected of Zeus than of the others, for he was the only one of the six children of Cronus and Rhea who enjoyed the inestimable privilege of being fostermothered by a dandy milch-goat, Amalthea. Wherefore the mystic record runs to the effect that the brain-iest of the Great Gods of Greece were of the Cult of the Goat, Olympian capro-philes.

Trespassing no farther upon Greek theology, what has modern genetics to say in answer to the query: Is there a living animal that has been sired with-out being dammed?

If not, then: Is there a living animal that has dispensed with the sire and has only a dam? Thos. Shaw says Yes, in these words: "When the queen bee is unimpregnated the eggs she lays pro-duce drones." Now, the drone bee is the male bee, a prospective sire, and evi-dently a cheaper article than a prospec-tive dam, for his make-up is less ex-pensive; he doesn't need a sire.

SHOW STOCK



First Hen, Boston, 1917



First Cock, Palace, 1916

When we started breeding Silver Campines we said: "We will breed

The Handsomest Fowl in the World"

We will give them the best money can buy in houses, yards and range, and feed and breed them according to the most scientific methods. We will develop them to the pin-nacle of perfection in standard requirements, breed the highest egg-laying qualities into them, coupled with stamina and vigor, and we have succeeded. The results are

"Homestead" THE VIGOROUS STRAIN Campines

If you are desirous of securing winners for your show, strengthening your flock, or starting with the best breed, do not delay writing us, stating just what you want. We have the goods and can please you.

At the New York State Fair

September 10-15, 1917, we won 1st and 2nd Cock; 1st and 4th Hen; 2nd, 3rd and 4th Cockerel; 1st, 2nd and 3rd Pullet; 1st and 2nd Pen; 1st Display. How's that!

This indicates that HOMESTEAD continues to DOMINATE in the world of CAMPINES

HOMESTEAD CAMPINE FARMS, Box A, WAYLAND, MASS.

AN EXTRAORDINARY CATALOG

We have issued a beautiful catalog giving the full description and history of this remarkable breed of fowl. No expense was spared in its production, and it is well worth many times the price, 15 cents.



Which piece of the "Pie" will you have?

Do you want birds that pay the "A" sized profit, or would you like a "C" sized slice? If you do, invest in the

Idylwild S. C. W. Leghorns

Strong, productive stock of correct Leghorn type, bred to "pay." **Baby Chicks** from stock that has not been pampered. Strong, husky young scratchers who "dig themselves in" the minute you take them out of the box, and when they get big they lay and lay and lay. Send today for our handsome and instructive catalog.

We have cockerels of genuine Mumby and Cyphers 200-egg strains, that we will let go at.....\$5 each First come, first served—they won't last very long.

IDYLVILD FARM

SHERIDAN, ILLINOIS

RILEY'S WHITE WYANDOTTES

Won Best Display at Chicago Coliseum Poultry Show, December, 1916



NOW is the time to buy stock right—place your order before the best have been selected. I can furnish you with stock for Utility purposes, breeding or show room. If you want to win at any show, write before ordering elsewhere, as I am confident I can furnish birds that will win, and at very reasonable prices.

I will furnish you a single bird, or a number of birds, that have been bred to win and lay, same blood lines as my **GREAT CHICAGO WINNERS**. Some strong, sturdy, selected cockerels, exceptional quality for the price, at \$5, \$7.50 and \$10. Our aim is full value, quality and satisfaction. Write your wants and for catalog—it will pay you.

H. J. RILEY Box A BRYAN, OHIO

"Superfine" Columbian Wyandottes

We have 5 pens now mated, the finest pens we ever bred, and can supply eggs for hatching, day-old and 1-lb. chix. Free Catalog. **H. A. D. Leggett & Co., 24 N. Nash Place, Burlington, Vermont.**

Get Your Share of This \$600,000,000

THE United States alone is this year expected to produce \$600,000,000.00 worth of poultry and eggs *more* than last year. Herbert Hoover, Chief of Food Bureau, together with the United States Secretary of Agriculture, calls upon the farmers and home owners to go in for poultry raising *in earnest!* They assure *you* that you will get high prices for your poultry and eggs. The demand far exceeds the supply—and will for years to come. Why, New York City alone *needs—uses* over Two Billion Eggs per year! And the biggest egg-producing state in America yields less than $\frac{3}{4}$ of what this one city consumes. All America—all the world is ready—*willing—eager* to pay you top prices for all the poultry and eggs you can raise. Hoover declares we *need* to raise *One Hundred Million Pounds* more of poultry in 1918—and, remember chickens are the quickest meat crop that can be produced. All the waste stuff around any home—any farm—can be used to keep down the feed-cost of chicken raising! Read on—and learn how you can get *started right* towards getting your share of this Six Hundred Million Dollars.

Send for FREE 1918 X-Ray Book No. 10A

Shipped by Fast Express Prepaid to Practically All Points

We get your X-Ray Incubator to you when you want it—when you are in need of it to get a quick start and get earliest hatches. You can get good hatches of the sturdiest chicks the same way that thousands of others have—by following the X-Ray way.

The 1918 X-Ray Incubator combines 20 Hatch-Increasing Features—each one of which will help you to easier, quicker, more economically double, treble or quadruple your flocks—and increase your poultry profits correspondingly.

1918 X-RAY Incubators and Brooders

The 1918 X-Ray Incubator gives you the benefit of the X-Ray Gas-Arrestor—ingenious device that prevents lamp fumes entering egg chamber; X-Ray Nursery Tray, new feature that assures sanitation—protects little chicks; X-Ray Egg Tester, most perfect, handy tester ever conceived; Handy Height; Quick Cooling Egg Tray.

Requires Only One Filling During the Hatch

It also has the famous Duplex Central Heating Plant—directly underneath furnishes natural, moist Mother-Hen heat. X-Ray Automatic Trip regulates the flame—no cold corners—no overheated sides—and, in all, 20 Exclusive X-Ray Hatch-Increasing Betterments.

Send for Free 1918 Book No. 10A

X-Ray Incubator Company Dept. 10A Des Moines, Iowa



X-Ray Incubator Company, Dept. 10A Des Moines, Iowa

Send me at once Free Copy of your 1918 X-Ray Book, No. 10A

Name.....

Street or R. R. No.....

City.....

State.....

What has genetics to say about the genesis of our domestic fowls? If I am rightly informed, something like this: At the time of mating the sire furnishes a cell called a gamete; the dam donates a cell also called a gamete. These gametes fuse, and the product of their fusion is called a zygote. This zygote abides within the egg and during the twenty-one days of incubation the evolving zygote builds itself up from the material stored in the eggs. The material in the egg was drawn from the blood of the dam and thus mother's blood becomes the chick blood and "the life of the "flesh is in the blood."

What comment should be made, in view of these facts, upon the monotonous and unceasing clamor for the deification of the sire. It seems quite possible for superscience to overlap itself, like vaulting ambition. Anything that ignores or belittles the dam is not science but nescience. Read what Wm. Youatt, the great English veterinarian, wrote more than two-thirds of a century ago: "The Arabs have found out that which the English breeder should never forget, that the female is more concerned than the male in the excellence of the produce; and the genealogies of their horses are always reckoned from the mother's."

Line-breeding from the dam is, of necessity, slower than line-breeding from the sire, but it may be surer. Look well to the sire, but do not forget that the dam is of greater importance. It is the dam that furnishes the chick with its nourishment the first twenty-three days of its existence, besides furnishing a gamete which constitutes one-half the zygote. Anyone who has observed closely the contents of eggs knows that some are quite firm when broken, the yolks do not easily break and the white stands firmly around the yolk; while others are very watery, the yolks easily break and the white runs all over the bottom of the pan in which the egg is broken. Now these watery eggs may be good enough to hatch fairly well, but the chicks hatched will lack vitality and will not make the rapid growth or develop into the fine shaped, brilliant colored specimens that those hatched from the more solid or "meatier" eggs will.

The production of eggs to hatch the strongest chicks depends largely upon the vitality of the breeding hens and the feed and care they have received previous to and during the breeding season.

Either large vigorous hens or vigorous early hatched pullets that began laying in the fall are suitable for breeding. If the pullets were hatched so early that they began laying late in summer and molted in the fall they will be the same as hens. These breeding females should



Turn Spare Time Into Money This Winter



Great Combination Offer

With every order for 100 or more chicks we are selling a Standard coal-burning colony brooder at cost. Our object is to enable you to raise baby chicks during your spare time this winter, thus allowing you to have pullets and fryns in the spring. Remember, the price of poultry is advancing all the time, and "a bird in the hand is worth two in the bush." Our catalog explains all about it. Write for it today. We hatch eight popular varieties, many of them from prize winners. Our Ringlet Barred Rocks won three firsts on five entries this fall.

Prices quoted for January and February delivery:

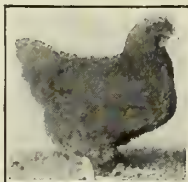
	Lots of 100	Lots of 50	Lots of 25
R. and S. C. R. I. Reds	\$14.00	\$7.25	3.75
Barred Rocks (The Real Ringlets)	14.00	7.25	3.75
White Rocks	16.00	8.25	4.25
White Wyandottes	16.00	8.25	4.25

Four other popular varieties.

Fine R. I. Red Cockerels

Lusty specimens, full of vigor, at \$3 to \$5 each.

THORNWOOD POULTRY YARDS AND HATCHERIES, Dept. 123, CRANDALL, INDIANA



1st Buff Orpington Hen Indianapolis, 1917

No, I did not sell my Buff Orpingtons

on the market because feed prices advanced.

I have the best lot of young birds I ever raised, bred from hens like the one illustrated in this ad and sired by my first Indianapolis cock.

Other Breeders May Have Better Birds, But These Look Good to Me.

I have a lot of March and April hatched cockerels you can have your pick for \$10.00, \$15.00, \$20.00 and \$25.00. No more, no less. You can order direct from this advertisement. Your money back if not satisfied.

No, this price does not govern in females. Eggs are now selling at 50 cents per dozen and they will sell for \$1.00 this winter, so I am not crazy to sell females from the greatest winter layers that wear feathers.

Yes, I won at the Indiana State Fair, 1917: Five ribbons in the strongest class of Buff Orpingtons ever caged in this State. At the February show I won 1st cock; 1st and 2d hen; 2d cockerel; 1st old and 2d young pens. The young males I am offering in this advertisement were bred from these winners.

"Just shove your money under the door" and I will send you birds worth a little more than you pay for them. DO IT NOW!

THEO. HEWES 2053 Hillside Avenue INDIANAPOLIS, INDIANA

Pure Bred Day-Old Chicks

The Great Sale is now on. Hatching season will soon be here. Buy Wolf's and get quality. We have White and Barred Rocks, Single and Rose Comb Reds, White Wyandottes, Buff Orpingtons, Anconas, White and Brown Leghorns. Get our catalogue, it's free. Wolf Hatchery & Breeding Co., Dept. B, Gibsonburg, Ohio

Rose Comb QUALITY R. I. REDS Single Comb

For years I have been furnishing winners to my customers in many of our largest shows. Each season they come back for more. Why? Because I please them. What I want is more customers to please. 500 choice breeders and show birds to sell. Satisfaction or money back. B. M. Billings, Box A, Elyria, O.

ROSE COMB ALMY'S REDS SINGLE COMB

THE GREAT SENSATION AND RED PRINCE STRAINS

win sweeping victory at big Providence Show, including 28 prizes on 22 entries and Display (both combs) for the 10th Successive Year. Also

ROSE COMB

Cocks: 1 (Color Special), 2, 3. Hens: 1 (Shape), 2. Cockerels: 1 (Shape), 3, 4. Pullets: 2, 4, 5. Pen: 1 (4 out of 5 firsts).

SINGLE COMB

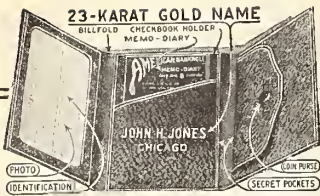
Cocks: 1 (Shape and Color), 3. Hens: 1 (Shape). Pullets: 1 (Color). Cockerels: 3. Pen: 1 (4 out of 5 firsts).

Also FIVE Gold Specials

Hundreds of elegant cockerels, also cocks, hens and pullets fit to win anywhere. Send stamp for mating list, ready January 20.

RED FEATHER FARM, F. W. C. ALMY, Prop.

Box 100, TIV. 4 CORNS., RHODE ISLAND



Poultryman's Pocket Companion

50c Post Paid

Guaranteed Genuine Leather Pocketbook
The "American Bankroll"—1918 Model Combination Billfold, Coin Purse, Card and Photo-case of Finest, Genuine Black Seal Grain Leather with the show and elegance of a Dollar Article for only 50 cents, postpaid, (\$5.40 per doz.) Any name beautifully engraved in 23-Karat Genuine Gold free (street number and city 20c each extra.) Iron-strong, yet wonderfully limp and flexible. Measures 3x4 1/2 inches folded. Has coin-purse, bill-pocket, photo or pass-window, 2 secret pockets, check book holder and 48-page Memo-Diary, brimful of interesting information, such as first aid to the injured, interest calculation, weights and measures, legal holidays, postal information, health information, important dates and payments due, addresses and telephone numbers, bank deposits, memoranda, 12 months cash account, expense account, inventory and 1918-1919 calendars, etc. If unable to get money order or bank draft, send postage stamps. 12th annual catalog of high grade GUARANTEED LEATHER GOODS and NOVELTIES free with orders for "Bankroll" or sent alone for 10 cents postage.

U. S. LEATHER GOODS COMPANY
Established 1906. Incorporated 1910.
Dept. 80-A, 106-8-10 W. Lake St., CHICAGO, ILL.

not be forced to lay thru the winter; if they are their eggs cannot be expected to produce strong chicks in the spring. In a natural state fowls have a rest from egg production thru the winter. The severe weather and a diet of dried grains and berries is not conducive to egg-production nor suited to the rearing of young. In the spring when the fowls are making their nests the tender sprouts have started and "the early bird catches the worm," thus securing ideal food for egg production. "Close to Nature" methods of managing breeding stock are found to produce the largest hatches of the largest, strongest chicks. Where the breeding stock must be kept in close quarters, it is necessary to supply substitutes for the fresh green foods, bugs and worms, that they would obtain on the range in spring; while their eggs are being set they require plenty of protein and mineral foods.

Getting back to the question of the relative importance of sire and dam, remember that one of the first things you should ask for in a prospective sire is, the proof that he came from a fine mother, grandmothers and great-grandmothers. To be a prepotent breeder, a fowl must be the product of intelligent line-breeding. If it has superior individual merit and is from a long line of ancestors possessing like characteristics it may be safely depended upon to stamp these characteristics upon its progeny. If a line-bred male is mated to females of a different strain but also line-bred the progeny will quite likely be lacking in uniformity, because the dam possessed different characteristics from those of the sire and both dam and sire were equally prepotent. But if, as is more often the case, a line-bred male is mated to out-bred females the progeny will closely resemble the sire. In the latter case one might conclude that the "male was more than half the flock." But it was not the male's sex but his breeding that gave him such a decided advantage in determining the character of his progeny. A line-bred female, if mated to an out-bred male, would have been equally prepotent.

Many of our leading strains of poultry are the products of line-breeding from the dam. Notable examples are the Barred Rock hen "Fluffy Ruffles" and the old Macomber hen, Rhode Island Red. Most of the winning strains of pullet-line Barred Rocks at the present day are "Fluffy Ruffles" descendants, and the leading strains of Reds boast of a large portion of the blood of the old Macomber hen.

If you would produce a famous strain trapnest your special matings or use individual matings, set each hen's eggs separately, find the females that are producing quality and when you are blessed with a paragon, line-breed her.

McOMBER'S Black Langshans

Won Best Display in Langshans, Chicago Coliseum, 1916.
Can furnish SHOW BIRDS for any competition.
Catalog on request.
G. O. McOMBER
Box 83
Berrien Springs, Mich.

Ideal Aluminum LEG BANDS

for POULTRY and PIGEONS
are the acknowledged leader. Finest and most secure lock. GUARANTEED to stay on. Price, postpaid, 12 for 15c; 25-20c; 50-35c; 100-60c; 175-\$1.00; 200-\$1.10; 500-\$2.50. Price list and sample 2c.

COLORED KEY RING LEG BANDS
12-15c; 25-30c; 50-50c; 100-70c.
250-\$1.70; 500-\$3.25. postpaid.

FRANK MYERS
BOX 40 - FREEPORT, ILL.

HIGHEST SCORE EVER WON

100

Envelopes, 3 1/2x6 1/2 inches, an extra strong, thick, smooth, slick, white writing face, and 100 Letterheads, 8 1/2x11 inches, heavy, hard, smooth, slick, pure white writing paper, all artistically printed and illustrated with latest new Standard cuts of your breed for only \$1.00. Express charges paid by me. Better printing for the price was never done. No order less than \$1.00 filled. Name your Express office. Cards, tags and egg labels same price as above.

Address: **J. R. HUDSON**, Hardin Springs, Ky.
We have saw samples of Mr. Hudson's printing. It is very nice; he is perfectly honest.—EDITOR.

COOPS

Clean, handy, vermin-proof, galvanized wire electric welded. Standard at all exhibits. Shipped by parcel post. Outfits rented to bench shows.

KEIPER COLLAPSIBLE COOPS
Write or illustrate catalogue and attractive prices.
KEIPER COOPING CO., 1401 First St. Milwaukee, Wis.

No Odors

Kill Rats & Mice by Science
with **Pasteur Laboratories Rat Virus**
NOT A POISON
PASTEUR LABORATORIES OF AMERICA
NEW YORK CHICAGO
EASY TO USE
HARMLESS TO POULTRY DOMESTIC ANIMALS AND MAN

RABBITS

Tells all you want to know about Rabbits. Our book: "The Rabbit; How to Select, Breed and Manage the Rabbit and Belgian Hare for Pleasure or Profit," by breeders of long experience with rabbits. Seventh edition, nicely illustrated, enlarged and much improved. Price 25 cents with sample copy of the American Poultry Advocate containing Belgian Hare Dept. Poultry Advocate Dept. 252 Syracuse, N. Y.

Wendell's

SANITARY POULTRY SUPPLIES
INCUBATORS, BROODERS, NON-FREEZING FOUNTAINS, FEEDERS, OAT SPROUTERS AND 60 MORE LABOR SAVING ARTICLES FOR THE PRACTICAL POULTRY MAN
GET OUR BIG FREE BOOK ADDRESS
WENDELL INCUBATOR CO. HOLLY, MICH.

RAISE HARES FOR US

Belgian Hares, New Zealand and Flemish Giants, Profits Large. We supply stock and pay you \$2 to \$10 each. Also other Fur Animals. Contract and 2 Instruction Books for 10c. None Free. **OUTDOOR ENTERPRISE CO., Box 3, Holmes Park, Missouri.**

THE ORIGINAL CHEMICAL Indoor Closet

30,000 SOLD—FIFTH YEAR
More Comfortable, Healthful, Convenient

Eliminates the out-house, open vault and cess-pool, which are breeding places for germs. Have a warm, sanitary, odorless toilet right in your house. No going out in cold weather. A boon to invalids. Endorsed by State Boards of Health.

ABSOLUTELY ODORLESS
Put It Anywhere In The House
The germs are killed by a chemical process in water in the container. Empty once a month. No more trouble to empty than ashes. Closet absolutely guaranteed. Guarantees on file in the office of this publication. Ask for catalog and price **ROWE SANITARY MFG. CO., 101 6th ST., DETROIT, MICH.**
Ask about the Ro-San Washstand—Hot and Cold Running Water Without Plumbing

45 Varieties

LAND AND WATER FOWLS
Send for free illustrated catalog, which tells you much you should know. Stock and eggs at all times. Mention A. P. J.
S. A. HUMMEL
Box 52 Freeport, Ill.

Silver Wyandottes

Penciled
Winners at Boston, 1917, and Greater Chicago Show, 1917.
Eggs, \$5 per 15 Stock for Sale
AUG. BLOESE, 5733 Lawrence Ave., CHICAGO, ILL.

NIXON'S WHITE WYANDOTTES

Originated nearly quarter century. Win at N. Y. and Boston, and lay at home. Order some real Dottes. **CHAS. NIXON Box 202 WASHINGTON, N. J.**

BUFF WYANDOTTE BARGAINS

in show or breeding stock. Won: 1st cock, cockerel, pen, at Madison Garden, 1917. Average egg record at 5th Storrs Contest, 175 eggs. **DR. N. W. SANBORN, 924 South Road, HOLDEN, MASS.**

S. C. BROWN LEGHORNS

Famous "Everlay" Strain. America's foremost exhibition and laying strain. Stock reasonable. **H. V. TORMOHLN Box 2 Portland, Ind.**

Crown Bone Cutter

EASIEST run, Fastest Cutter, Strong, Substantial build. Bone scrap means more eggs, higher per centage fertility. Own a "Crown" Cutter and have fresh bone for every feed. Dry Bone, Grain and Shell Mills. Hand and Power sizes. Free illus. catalogue. Est. 36 years
WILSON BROS., Dept. 6 Easton, Pa.

Best Made. Lowest in Price

Poultry Supplies

All Kinds, Houses, Fixtures, Feeders, Fountains, Hoppers, Troughs, Bone Mills, Coops, Leg Bands, Meat, Bone, Shell, Grit, Foods, Remedies, Fescue, Kernel and Feed Supplies, Circular Free.
Eureka Supply House, Box A Aurora, Ill.

Poultry and Grain in England.

HOW acute the poultry and grain situation is in England may be seen from the following "warning" and editorial comment on same which we have clipped from *The Poultry World*, London, Eng., for November 2, 1917.

It is also apparent from the comment of the British poultry press that English poulterers are opposed to the importation of eggs and desire that grain and poultry feeds be imported instead. The Government officials argue that it is cheaper and more economical of freight space to import eggs. There seems to be, however, an increasing demand for "American cracked corn" and "maize" (whole corn), in Britain and if ships can be had to carry it, before the weather becomes unfit, big shipments of kiln-dried corn are not unlikely.

Here are the clippings, the reader can form his own opinion:

WARNING TO GRAIN USERS.

The Departmental Attitude Towards Poultry Keepers.

We have received the following from the Ministry of Food for publication: Under the Wheat, Rye and Rice Restriction Order and the Barley Restriction Order the use for the feeding of animals and poultry of wheat and barley which are fit for manufacture into flour for human food is prohibited. In spite of this prohibition reports are received by the Food Controller from all parts of the country that animals and poultry are being fed on these grains. It has been suggested that this infringement is not caused by any wilful unpatriotic action, but arises from ignorance of the meaning of the orders. Farmers and other users of grain are therefore warned that all wheat and barley which can be used for the manufacture of flour for human food is required, and must in the national interest be reserved for that purpose. The feeding of animals or poultry with such grains is a summary offense against the law, and is punishable by fine and imprisonment. The fact that wheat or barley is out of condition does not necessarily mean that it is unfit for milling. Such grain should not be used as feed for animals until it has been offered for sale to every available miller, dealer and malster or owner of kilns. Arrangements have been made which it is hoped will lead to a market being available for such grains in any way fit for the manufacture of flour for human consumption.

It is essential in the national interest that the Grain Orders issued by the Food Controller should be implicitly obeyed and any person infringing them will be vigorously prosecuted.

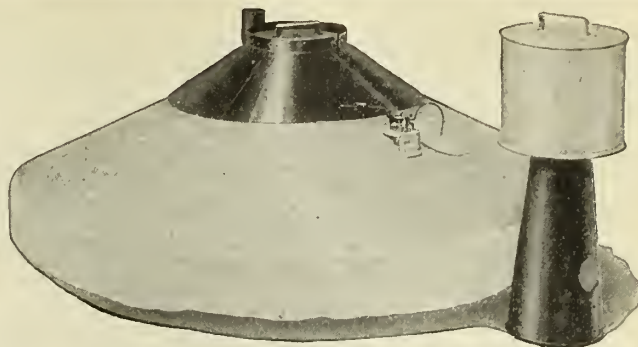
Warning is also hereby given to owners of grist mills that it is a summary offense for them to aid or abet any person in the infringement of the Grain Orders, and that it is their duty in the national interest to report to the Food Controller without delay every case in which they are asked to prepare for animal consumption grain which could be used for the purpose of human consumption.

Ministry of Food, Palace Chambers, Westminster, S. W. 1.

October 27th, 1917.

The Official Attitude.

In another column we print a warning issued by the Ministry of Food to grain users. It is a typical example of the official attitude towards poultry keeping. There is no valid reason why poultry should be singled out for special mention. Since the restrictions were placed on poultry food no class of grain users have carried out the official orders more loyally than poultry keepers, and we can but suppose that this new warning is issued with the intention of still further reducing our stock of poultry. The effect of a warning of this kind on the mind of the general reader is that poultry keeping must be against the national interest, and probably he will dispose of his flocks under the impression that he is helping the country. The food, almost all unfit for human consumption, used by the poultry keeper is rapidly and economically converted into eggs and chickens, and we who are engaged upon such work, suggest to the Government that their attention be turned to the millions of unproductive stock which at present are living on the best our land can give them. There need be no shortage of food for poultry or for mankind were the unproductive stock eliminated. As far back as April 20th we warned the Government what



Harrysbourg Colony Hover

Only Successful Blue Flame Oil Burning Hover on the Market

Burner absolutely wickless, burns like natural gas thruout the season without any attention in the way of cleaning. No ashes—no smoke—no soot.

Holds perfect temperature in mild and in cold weather: produces more heat from oil consumed than any other oil burner, burning 40 to 65 hours on six quarts of oil.

This burner, in connection with our ventilating system, produces wonderful results. Its use means strong, healthy chicks. The following letter from a large farm in Missouri explains the performance of this hover in few words:

Brandsville, Mo., October 29, 1917.

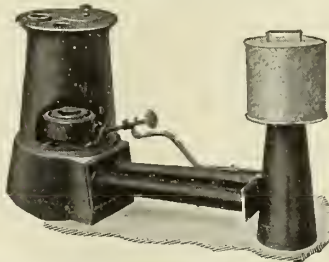
Gentlemen—Regarding your Blue Flame Hover, we are very much pleased with the results. It fills the need of a stove which will stay with the chicks all the way thru. A coal stove is with them upon retiring at night, but falls down before morning, while a stove of your type is right on the job every minute.

Haight Orchard and Developing Co.,
P. D. Farrington, Poultry Dept. Mgr.

Hover is made in two sizes: 40-inch canopy for brooding 100 to 300 chicks; large 50-inch canopy for brooding 100 to 600 chicks. Thirty-day guarantee. Send for catalog.

Change Your Coal Brooder Into a Perfect Blue Flame Oil Burner

Seventy-five percent of orders last year were from poultrymen dissatisfied with the coal brooder stove. Use our Blue Flame Burner with all connections ready to be installed in any coal brooder. Plenty of heat for a 32-inch canopy. Guaranteed to give perfect satisfaction or money refunded. Cut in this ad shows device connected to a coal brooder stove. Send for catalog.



Dealers and Agents Wanted

We want live Representatives.
Be the first in your territory.
Our line is a Winner.

HARRYSBOURG POULTRY FARM

Incorporated

Dept. A Dunkirk, N. Y.

Imperial Buff Wyandottes SENSATIONAL VICTORY

Winners of Best Display at Coliseum, Chicago, Dec., 1917, 1-2 chl., 1-2-3 plt., 3-4 cock, 2-4 hen, 2 old and 2-3 young pens; Club ribbons for best colored male, best shaped female and best colored female.

A Grand Lot of Breeding and Show Cockerels For Sale

These birds will strengthen any flock. Book your Hatching Eggs early. Send for Free Booklet.
W. F. SCHULTZ Box 97 CUYAHOGA FALLS, OHIO

**WINNERS
AT
CHICAGO
1917**

LIGHT BRAHMAS

THE BIG KIND THAT WILL WIN AND LAY FOR YOU THIS WINTER

If you want birds that have standard type and color, it will pay you to write to me and get my prices. The quality of my stock simply cannot be excelled and my prices for same are most reasonable. My birds are bred right and have stamina, vigor and the egg laying habit bred into the bone, and will win for you as well as they did for me at Chicago and other big shows. Satisfaction guaranteed.

JOHN BLANCHARD - - - COLUMBUS, WIS.

MIDDLEMARCH Champion ORPINGTONS

Buff and Black. Write for January Sale prices on cockerels—\$5 up.

JESSIE F. GORDON - - - Box 535 - - - SPRING VALLEY, MINN.

Applecock Barred Rocks



EGG—LINE—BRED

Win Sixth Storrs Laying Contest
Total 2119 Eggs

Breeders in our pens with these Storrs Official Records

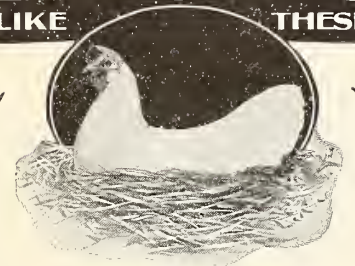
Champion 277 Eggs

Pen records - 220 to 243
Pen records - 200 to 220
Pen records - 187 to 200

1918 Mating List on Request
Cockerels for Sale

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200-265 Egg Strain

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LEPAGE'S GLUE

HANDY TUBES

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POULTRY BOOK Latest and best yet! 144 pages, 215 beautiful pictures and color plates. Hatching, rearing, feeding and disease information; describes the busy Poultry Farm handling 63 varieties including Indian Runners. Tells how to properly choose fowls, eggs, incubators and secure cheap feed. This practical book worth dollars mailed for 10 cents.

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How to Raise Chicks

128 pages, profusely illustrated. An a to z manual for everyone who keeps fowls. Written by Prince T. Woods, a man who knows how and how to teach others. Cloth bound, price 75c.

American Poultry Journal Pub. Co., 542 S. Dearborn St., Chicago, Illinois.

its destructive policy towards poultry keeping would lead to. We said then that in the winter of 1917 the price of eggs would be 6d. each. How true was our prediction may be seen in London markets today. Now that the public are beginning to cry out against the price of eggs it may be that the departments concerned will discover that poultry keeping is not a hobby but an industry of national importance.

A PLEA FOR THE SMALL FLOCK.

By M. B. TAUBENHAUS,
College Station, Texas.

With our present war conditions and the high cost of living, the back-yard poultry flock is naturally attracting due attention. The writer feels that it is not untimely to present some figures which might be of general interest. These figures represent a forty-five weeks' egg record of a small flock of fifty White Leghorns, composed of equal numbers of hens and pullets. The following statements are self-explanatory:

Total feed consumed, including sprouted oats for greed food.... 3,276 lbs.
Total number of eggs produced.... 6,982
Total number of eggs in dozens.... 581 11-12
Average price of eggs per dozen.... .34
Total cash received for eggs..... \$ 188.29½
Price of feed an average of 3c a pound, total for 3,276 lbs..... 98.28

Profit..... \$ 90.01½

To obtain a clear idea of the full history of the above flock, the following figures are further presented:

Date Month.	No. of birds in the pen.	Amt. of feed consumed in pounds.	No. of dozens of eggs laid.	Price of eggs.	Cash for eggs each month
December 17 to December 31, 1916.....	50	186	34 6-12	\$.45	\$15.52½
December 31 to January 28, 1917.....	50	314	56 7-12	.40	22.63
January 28 to February 25, 1917.....	50	353½	70 6-12	.30	21.15
February 25 to March 25, 1917.....	50	344	80 3-12	.30	24.07½
March 25 to April 29, 1917.....	50	391½	102 6-12	.30	30.75
April 29 to May 27, 1917.....	49	325	72 3-12	.30	21.67½
May 27 to June 24, 1917.....	48	279	51 6-12	.30	15.45
June 24 to July 29, 1917.....	47	327½	58 7-12	.30	17.57½
July 29 to August 26, 1917.....	46	220	28 11-12	.30	8.67½
August 26 to September 23, 1917.....	45	258½	20 4-12	.40	8.13
September 23 to October 21, 1917.....	45	277	5 11-12	.45	2.66
	Average 48	Total 3,276	Total dozens 581 11-12	Av. price per dozen \$.34	Total cash \$188.29½
		Total feed consumed, 3,276 lbs. at 3 per lb.....		\$98.28	
		Cash for eggs, \$188.29½—\$98.28.....		90.01½	
		Thus the profit is.....		90.01½	

From the above figures it is seen that a small flock of fifty or an average of forty-eight birds, if properly cared for, may yield a profit of \$90 in spite of the high cost of feed. The labor here represents the profit. To care for a flock of fifty birds should not require but one hour a day in which all odd moments are utilized.

Does it not pay to utilize a spare hour per day to care for a small flock of chickens in the back yard, especially now, as it is believed that hen can help whip the Kaiser? This work might well be done by the women or children on the farm, in which place, too, the birds have every advantage over the commercial plant. Another point worth mentioning is the fact that a flock of pullets will almost double in value on the second and third years as breeders and yet be profitable egg producers also.

It may be further stated that the reason the feed bill in this table is brought down to three cents a pound, is found in the use of sprouted oats. The latter is nutritious and takes up a large portion of the bulk in the daily ration. Sprouted oats in this case not only reduces the feed bill, but also increases the egg yield.

Clay Center, Neb., Dec. 5, 1917.
Editor American Poultry Journal,
Chicago, Ill.

Dear Sir:
As customary, we are forwarding a copy of our 1918 Old Trusty catalog to you by this mail. We are looking forward to a bouncing season. We note with enthusiasm the publicity that is being given to the poultry business. I do not believe, however, that people generally realize the poultry opportunity before them.

Looking back, we have been quite a long while in Clay Center, dealing with poultry raisers, and the poultry situation is brighter than ever before.

The United States hasn't been exporting eggs to any great extent, but exports in eggs

have increased three, four or five times in the last three years. During the Civil War the demands for certain food products were just enough to supply the food needs. Prices of wheat, for instance, were higher in '67, two years after the war closed, than any period during the war, so I think it will be in this case. Prices of poultry, farmers feel, are temporary, but I look for poultry to continue higher, and the demand to increase, not only during the war but for years afterward. The war has done this to the European countries: It has consumed all food supply in the nations at war, not only drawn on the surplus but taken the growing stock. This is true of the nearby neutral countries as well. Exports have increased in the last few months in the United States and from the South American countries, and this will continue. There has been a decrease in poultry raising the last couple of years. No question about that. There has been an increase in the demand. Some farmers are getting hold of the situation and will profit in a big way. After the war is closed, shipping will be less risky. Not only will the people in the warring countries have to be fed as they are being fed during the war, but the consumption will be greater and there will be other markets for brood stock that will go to replenish the waste that has taken place during the early years of the war.

There is no getting away from the fact that poultry will continue to be high priced all thru the war and for years afterward. Farmers who have sold their poultry because it was high, feeling that the high price was temporary, have made a mistake. They ought to raise all the poultry they possibly can and keep marketing stuff that has matured and isn't going to produce. Take the fat hens that are

taking on flesh instead of laying eggs, they should be marketed. The surplus roosters should be marketed during the holidays. The laying hen, no matter how high feed goes, cannot be an expense to her owner.

*Very truly yours,
H. H. Johnson.

A SURE DESTROYER IS Licene

BECAUSE—

LICENE is LIFE to the chicken and DEATH to lice.

LICENE is applied twice a year; kills lice and nits and cleans Scaly Legs more effectively than any other known remedy.

LICENE is easy to handle and easy to apply.

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If LICENE does not destroy every louse and "nit" or does not clean Scaly Legs, we will, within 30 days, refund your money and no questions will be asked.

Price 60 cents a tube, enough for about 150 to 200 birds. Delivered by mail. **The Licene Co., 1520 Pontiac Bldg., Chicago**

Successful Poultry Culture

Treats on all subjects appertaining to the poultry business. The chapter telling how to save three-fourths of your feed bills is alone worth many times the price of the book, 128 pages, profusely illustrated. Price 50 cents.

American Poultry Journal Pub. Co. 542 S. Dearborn St., Chicago, Illinois

SELECTING AN IDEAL VARIETY

By W. W. COLE.

MY SELECTION of the Barred Plymouth Rocks for my favorite variety is based on a purely esthetic emotion—an appeal to my sense of beauty and the satisfying of an ideal in precision and symmetry. So the selection of a variety is an easy matter with me, as I find in the Barred Plymouth Rocks what I find in no other variety. My personal selection of this breed is by no means a case of "love at first sight" of any breed that came along, for I had handled the barn-yard variety, and had raised Brahmas, Brown and White Leghorns, White Rocks, Rhode Island Reds and I had criticised these varieties as a fancier with a view to finding the truly beautiful. I also had been very fond of color and variety in the garden and by the wayside—and had made a study of the laws of botany and horticulture. The rose, the pansy, and the sweet pea especially, appealed to my sense of beauty.

First, the beauty of my variety appeals to me because it is different and distinct. The Barred Rock is not a mere patch of white or black or brown. For here is variety in unity and unity in variety. Immediately I saw in my selection a chance to look again and find more of the beauty. I did not see all the beauty at a glance. I looked again and saw shade and color, size and symmetry. The males were distinct, being a lighter shade; while the females were darker and yet of the same general plan or design. The males are different from the females; still there was symmetry or idealistic relation. The fact that the plumage was not all black, neither all white, contributed a restfulness to my eye and I seemed satisfied with the general appearance of color and shade and design. The beauty seemed wholesome and substantial—a beauty that would endure and not fade away by the destroying agency of sun or shower. The plumage of my variety, therefore, is a most happy medium between extremes—and in consequence is wholesome, enduring and ideal. See this bird in the park, in the coop, in the show room, or on the lawn, and you see an all-round beautiful specimen.

More specifically, the beauty of my variety I discover in the mathematical precision of the barring of feather, as tho it were the handiwork of the real artist. The barring is by no means a mere smattering of white and black in "hit or miss" fashion. My eye caught the regularity of the plan of coloring—alternating bars of black and white, chasing one another clear off to the end of feather—a real



R. C. Brown Leghorns

EGG SETTINGS from Winners at the Chicago Coliseum, Madison Square Garden

Best Display Chicago Coliseum, Dec. 4th to 9th, 1917

Also sensational sweep of victories, winning best display in both light and dark matings, scoring more points than all competitors combined at the National All Leghorn Show, Columbus, Ohio, Nov. 28th to Dec. 3rd, 1917. Write for our free catalog. Address

THE THOROUGHbred POULTRY YARDS DEPT. S EVANSVILLE, INDIANA

Give the Unhatched Chick a chance for its Life

UP TO HATCHING TIME, a chick breathes through innumerable blood-vessels in the inner membrane just within the shell. The life-sustaining air goes in and the poisonous carbon dioxide exhaled passes out through the pores of the shell.

Very often during incubation these pores are partially closed, also the shell is likely to become hard and tough. This is a double handicap.

Even under normal conditions the margin between strength of chick and strength of shell is dangerously close. Partly smother or suffocate the chick and its chance to hatch becomes much less. If, at the same time, the shell hardens, the weakened chick cannot break its way out.

Thus the common occurrence of dead-in-the-shell chicks.

EGG-O-HATCH

applied to eggs during incubation, furnishes free oxygen to the chick, absorbs the carbon dioxide and disintegrates or rots the shell—so that at hatching time you have a strong, virile chick and an easily broken shell instead of a weakened chick and a hard, leathery shell. This means a better hatch and the stronger chicks are easier to raise.

Egg-O-Hatch has been proven practical in every way by repeated tests in which it was applied to only part of the eggs in an incubator and by thousands of poultry raisers who use it regularly. Last season many reported 100% hatches of unusually strong chicks. One got 100% three times in succession. Read what some of them say:

BEST IN FIVE YEARS

Egg-O-Hatch received and used and all came out and living today but three eggs; they were cracked. This is my best hatch in five years. J. W. OLDS, 721 S. Austin St., Sherman, Texas.

HATCHED EVERY ONE

Egg-O-Hatch certainly is a wonder. I used it and had the greatest success. Every hatchable egg hatched and not a cripple chick among them. Signed: MRS. JAS. BAKER, Wheatland, Ind., R. R. No. 22, Box No. 48.

15% BETTER RESULTS

I have used the Egg-O-Hatch and received a 15 per cent better hatch on the eggs treated than on the eggs not treated. MRS. W. H. ALDERSON, Moberly, Mo.

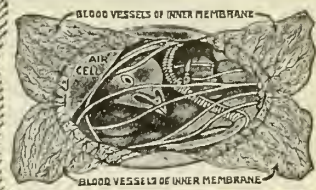
97% IN FREEZING ROOM

I have given Egg-O-Hatch a trial and from 61 eggs I hatched 59 strong chicks, 97 per cent. Some nights it was so cold that it froze ice in the room where I had my incubator setting. MRS. G. SHIFF, Bellevue, Idaho.

MUCH BETTER RESULTS

Out of my 120-egg machine I usually got from 75 to 80 nice chicks. By using Egg-O-Hatch I got 93 live chicks out of 101 eggs. The rest were "test outs." Signed: MRS. FRANK MEURET, Venus, Neb., R. R. No. 1.

Egg-O-Hatch comes in powder form. It is mixed with water and applied to eggs by dipping, sprinkling or spraying. Applied three times—10th, 14th and 17th days. It is made only by the Geo. H. Lee Co., manufacturer of Lee's Egg Maker, Germozone, Egg-O-Latum, Lee's Lice Killer and other preparations. Note above offer free books.



View of Unhatched Chick, showing blood-vessels used as temporary lungs.



Free Booklet "ALL ABOUT EGGS" free on request or, for 5c to cover mailing, Lee's complete poultry library of 5 booklets.

25% BEFORE; NOW 80 TO 85%

Your Egg-O-Hatch, in what experience I have had with it, has done everything you claimed for it—not only were the hatches much larger, but the chicks much stronger. I am raising turkeys this year and already have 300 splendid young turks with 200 more eggs setting. Might add, since received your Egg-O-Hatch, I have not set a hen, but every egg in incubators as I find that my incubators bring larger hatches than the hens since using your product Egg-O-Hatch. Before using it, my hatches were about 25 per cent, where now they are from 80 to 85 per cent. I cannot too highly endorse it. MRS. GUY H. PRICE, Sequim, Wash. Box No. 26.

100% THREE TIMES

I take pleasure in writing you about Egg-O-Hatch. I ran my incubator three times and will say Egg-O-Hatch makes it easy for the chick to come out of the shell. Not one chick left in the shell three hatchings. I will always use and recommend it. Yours truly, H. J. STRICKER, Omaha, Nebraska.

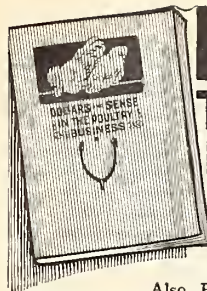
100% WITH; 50% WITHOUT

I used Egg-O-Hatch and it sure did fine. I tried it in my big 250-egg incubator just on one side. There were half a dozen get out of the shell on the side that I did not dip. But on the side I dipped every chick got out and not a cripple in the 125. MRS. CHAS. WORKMAN, Haigler, Neb.

Egg-O-Hatch will give you bigger hatches, no matter what kind of incubator used, and all the chicks will be stronger and easier to raise. Get a jar NOW from any dealer handling Lee products or send to us.

One Size Only—50 cents Enough for 600 Eggs

Geo. H. Lee Co., Lee Bldg., 302, Omaha, Neb.



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The bulletin—"How to Cut Down the Cost of Poultry Feeds"—presents the solution of the feeding problem, the most serious question before poultrymen today.

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Every poultry keeper should secure these inspiring, helpful books. Valuable alike to fancier and utility breeder, "back-yarder" and professional poultry farmer. They point the road to success—save the delay and expense of "feeling your way."

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Not theory, but proven facts. Cloth, illust., \$1.00.
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work of fancy and artistic design. This I discovered to be the general scheme thruout the entire system of plumage, and not only from tip to tip but to the skin as well. This was added reason for my admiration. And still again I saw evenness of shade from tip to tip. This was true of both sexes. But another thing appealed to my sense of sight. The males were always slightly lighter in shade and color than the females. This is an advantage, for just so soon as the young put on their feathery coating of real plumage the slight difference of shade enables the owner to determine the sex of the fledglings. But all this barring and shade and evenness of color of plumage is the result of careful selection and continual attention to the law of the family—for the Barred Rock variety is in reality the Barred Rock family, so that any variation from the idea of the family line would show in a white or black or red feather and thus destroy the symmetry and the beauty. Here, then, is the real beauty in the law of heredity, so that like produces like, and the type and style of the family are carefully conserved in mating by appropriate selection.

This is considered the great difficulty in breeding this variety true to Standard, but it appealed to me and I saw something somewhat difficult but worth while. The law of heredity that regulates color and shade and type obtains in poultry just as in botany or horticulture. And the poultryman who will take the trouble to observe some of these simple laws can regulate to an exact precision the production of light or dark shades or the wide and narrow bars.

In this way the beauty and symmetry

of this good breed can be readily conserved and even improved. For example, in the propagation of flowers—a cross between a bright red and a white blossom will almost invariably produce a pink or variegated blossom. Let this law be observed in the mating of this variety and the difficulties of breeding true to Standard will be mostly overcome. For example, the males are a slight shade lighter than the females. This is found to be so because the light bars across the feathers of the male are a little wider than the dark bars—the facts and the principle being reversed on the females, causing the females to present a darker shade. For fancy purposes the difficulties may be overcome by a proper selection in mating; mating a male having a wide, light bar with a female having a narrow light bar.

To me this is more than theory, for I just go to the park and look at my cockerels and pullets which are the result of my careful and scientific selection in mating and there I find the ideals of color and shade and type and symmetry and the beauty of the Barred Rock family. I pick up a much prized specimen and look at the comb and wattles and beak and shank and I am lost in admiration of this beautiful variety. I have no regrets. I covet no other variety. These are ideal. I am satisfied with my selection. They meet my requirements of fancy. They prove their beauty. This is my choice—aristocratic—imperial—the grand old bird.

S. C. REDS of the best bloods obtainable, combined with intelligent mating resulting from years of experience. We satisfy for half what big advertisers, but not better breeders, would ask. Remember when buying show birds for the coming winter shows. 500 youngsters growing on free range. R. I. Armstrong, 378 14th Ave., Columbus, O.

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Freeport Illinois

Established Over 28 Years

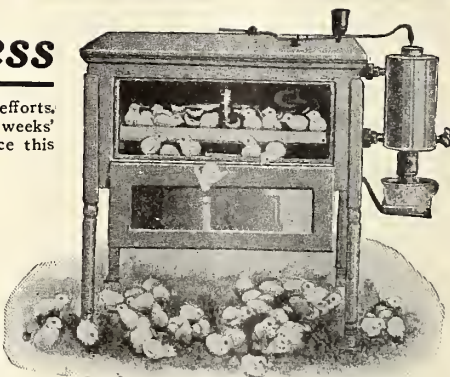
Don't endanger your success

by using a poor incubator. Your incubator will be the keystone of your season's efforts. If it fails you or does not give the maximum of efficiency you lose at least several weeks' time, or maybe the whole season. Incubators will be hard to get on short notice this spring, due to manufacturing and shipping difficulties, so prepare now.

GLOBE Incubators and Brooders

are not just "good enough." They are the best machines on the market today and we are willing to prove it. We use the most modern machinery, our workmen are the best that money can employ and no machine leaves the factory until it passes the most rigid examinations, for our good name is back of every one of them. Our motto is: "How good we can build them—not how cheap." The remarkable hatches which our customers obtain is positive proof that you can afford to buy but one incubator and that is the GLOBE.

Genuine success cannot be achieved in incubator work unless that work is completed by using a really good brooder. Compared with an incubator, a brooder is rather a simple apparatus, but nevertheless the work it has to do demands that it be thoroly well made. Globe brooders are made with the same painstaking care as Globe incubators.



Poultry Almanac For 1918

It is a textbook of information. Tells about and shows pictures of the different varieties, incubators, brooders; poultry ills and how to cure them, what and how to feed, how to build poultry houses, etc. Write for it today, inclosing 15 cts.

We Breed 48 Varieties of Poultry

and can supply your wants. Our old customers come back year after year, which proves we give satisfaction. We believe in always giving them a bit more than they pay for. Order your breeders early, so as to make sure of receiving them for the coming season.

Send for our Poultry Almanac—all about Fowls and Incubators—Price 15c.

C. C. SHOEMAKER Breeder of Birds of Better Quality BOX 605, FREEPORT, ILL.

BLACK LANGSHANS AND WHITE PLYMOUTH ROCKS.

Happy Combination for Beauty, Eggs and Meat on the Farm.

By PRINCE T. WOODS, M. D.

RATHER more than a year ago I stated that one breed was enough for me and that I expected to breed Black Langshans exclusively. Previous to that I had been carrying a number of popular varieties, among them White Plymouth Rocks. Breeding several breeds on the same farm is more or less of a nuisance. Yet if one is fond of fowls, it is hard to let go of a breed after once taking it up. Every breed and variety has its little peculiarities and its special appeal for favor.

It was rather a hard pull to let some of the breeds go. During the past half dozen years I had had some nine varieties or more, and giving up the White and Buff Wyandottes, which I had bred many years, was the hardest pull of all. Firmly believing that one variety or breed is enough for anyone, I fully determined to keep but one, but when it came to parting with the White Rocks it couldn't be done. Just as I made up my mind last spring that I would drop them, much as I liked them, came a long time order for hatchery eggs that was too good to lose. The Rocks stayed and a number of selected eggs found their way under hens. Result, I raised about an equal number of White Rocks and Black Langshans and for the present that combination will probably stick to the farm.

The lordly Blacks and the beautiful Whites make an attractive combination. We get beauty in both and an abundance of eggs and meat. Hawks do not fool around much with growing Black Langshans, they look too much like crows. The black chicks and white chicks running together are safer than white chicks would be running alone. The Black Langshan hen makes a wonderful mother and is wicked fighter, willing to attack any varmint, furred or feathered, that may attack growing chicks.

There is a wide difference in these two breeds in the chick development. The same amount of feed that only grows a rangy frame on a Langshan will make a fine plump broiler, fryer, or small roaster of a Plymouth Rock. While the Langshan can be utilized for the table at the small roaster stage, it is never at its best until large roaster or turkey size. Long after the Rock chick has passed the soft-meated stage and "gone hard" the Langshan will remain soft-meated and as tender as young turkey. Even two-year-old males make good table meat. Thus the Rocks and the lordly Blacks make a fine combination which insures prime poultry meat continuously throuthout the season.

While the Langshan eats more during its period of growth than a Rock, and



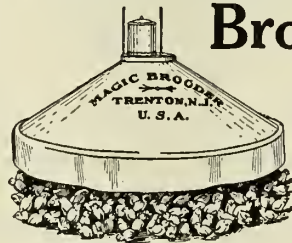
THE UHL HATCHERY

When an organization can announce, as we do, **OUR EIGHTEENTH SUCCESSFUL SEASON** It means that we have satisfied our customers—given them honest value and fair treatment. This year we are again ready to supply

40,000 CHICKS per WEEK

If you want the best there is in Baby Chicks, for show or utility, we can supply you at the most reasonable prices—Barred, White and Buff Rocks; R. and S. C. Reds; White and Silver Wyandottes; Buff and White Orpingtons; S. C. and R. C. White Leghorns; S. C. and R. C. Brown Leghorns; S. C. Buff Leghorns; Mottled Anconas; S. C. Black Minorcas; W. F. Black Spanish; Light Brahmans. **M. UHL & CO. Box A NEW WASHINGTON, OHIO**

The Hill Colony and Magic Brooders



famous for high grade construction and efficiency. They hold the fire, automatically regulate the heat and are positively gas proof. They brood chicks which will produce a profit.

The brooder is actually the starting point of success in the poultry business. If our brooders do not do all we claim after thirty days' trial we will cheerfully refund the money and pay freight both ways.

Send for free catalogue describing both the Hill Colony and Magic brooders. It also shows plans how to build colony and laying houses together

with other appliances. Agents Wanted.

United Brooder Co., 348 Pennington Avenue Trenton, N. J.

MEYER'S BLACK LANGSHANS Make ANOTHER KILLING

At the Pike County Poultry show in one of the hottest classes of Langshans ever brought together, I made the remarkable win of 1st, 2nd, 3rd and 4th cock; 1st, 2nd, 3rd and 4th hen, and 1st and 3rd pen. A number of experts said this was the best class of Langshans and with more quality than they had seen in years. A nice lot of cockerels at \$3.00 and up. **W. A. MEYER, Box E, Bowling Green, Mo.**

OTTO White ORPINGTONS

WINNERS AT INDIANAPOLIS, TERRE HAUTE, INDIANA STATE FAIR AND CHICAGO COLISEUM. BRED EXCLUSIVELY SINCE 1907.

Cockerels from my finest blood lines at special prices to make room for breeding pens. Eggs for the coming season from the greatest pens of all my ten years experience. Send your name in early for my illustrated mailing list.

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GREEN'S GREAT GROUP

OF PRIZE-WINNING

**White, Buff Leghorns Barred Rocks
Rose Comb Reds White Wyandottes**

Show or utility stock that will enhance the value of your flock and give it a reputation that will mean dollars in your pocket. They win—they lay—they pay. No stock for sale. Eggs, \$2.00 per setting; 3 settings for \$5.00. Book your orders now. **FLOYD GREEN, 1026 June St., FREMONT, OHIO**

BUFF ROCKS

Won Every First Prize Offered at Kansas City Show. Pronounced by Judge Drevenstedt best class he ever saw. Cocks, 1, 2, 3, 4, 5; Hens, 1, 4; Cockerels, 1, 2, 3, 4, 5, 6; Pullets, 1, 2, 4; Old Pen, 1; Young Pen, 1; Best Display in entire show. First Prize winners at City, World's Fair. Two pullets at Mountain Grove laid 229 and 201 eggs each. Get my catalog. **C. R. BAKER Box A ABILENE, KANSAS**

Barred Plymouth Rocks Large and Prolific LAYING STRAIN

Bred for Eggs, Size and Perfection for 20 years. A fine lot of Cockerels for sale at once, from extra good laying hens. Eggs at all times. **Wm. J. Davis, Eaton, Indiana, Rural Route No. 1**

Inventions Wanted!
Manufacturers constantly writing us for patents. List of inventions actually requested and book "How to Obtain a Patent" sent free. Send rough sketch for free report regarding patentability. Special assistance given our clients in selling patents. Write for details of interest to every inventor.
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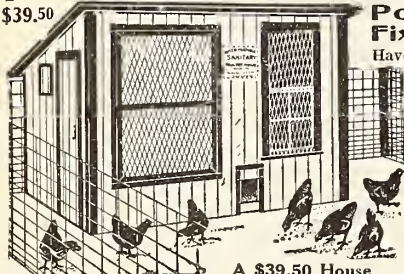


DON'T KILL or sell your laying hens

Use the **Potter System** and pick out the layers from the loafers and diseased hens. Keep only healthy laying hens. The **Potter System** is a secret and the greatest discovery of the century in the poultry world on the subject of Egg Producing Hens. Used by over 50,000 satisfied poultry keepers who are saving dollars every year. Our new 100-page Potter System book, "Don't Kill the Laying Hen," contains the secret and knowledge about laying and non-laying hens. It's a revelation to poultry keepers, and you will learn how you can use the Potter System on your flock, keep less hens, get more eggs and make more money using it. Write today, sending two red stamps to cover postage on our large catalog and circular telling all about Potter Poultry Products made for Particular Poultry People. If you are particular and want to make more money on your flock, you will write us today.

DON'T BUILD You can buy better, cheaper, more complete ready (factory) made henhouses, roosting and nesting fixtures, coops, etc., from Potter & Co., because they buy lumber in carloads, cut and fit all parts perfectly by automatic machinery and deliver the house, coop or fixture you need in convenient sections all ready to set up.

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A \$39.50 House

No. 5, Style "D" Potter portable open front fresh air scratch shed house, equipped with No. 17, Style "A" 6-foot 3-perch complete henhouse outfit for 30 hens. Price of complete house, \$39.50.

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Potter Poultry Houses and Fixtures— Portable, Sanitary, Inexpensive

Have been on the market for over ten years and are used and recommended by thousands of poultry keepers who want the best and buy the best in poultry houses and equipment. You start right when you buy a Potter portable with complete outfit of roosts, drop board and nests. A clean, sanitary house means healthy hens and lots of eggs. The fresh air sanitary house shown here is only one of the twenty styles of houses and coops we make ranging in price from \$3.50 up and everything we make is absolutely guaranteed.



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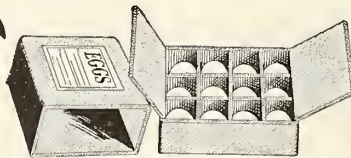
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Gold Coin Buttercups

CHICAGO COLISEUM WINNERS, 1917

First pullet, third, fourth, fifth cockerel. I have some fine cockerels for sale. Write your needs.

HATCHING EGGS BABY CHICKS

I will have eggs and chicks from pens containing these prize winners. Do not delay ordering.

O. E. DISENROTH, LAWRENCE, MICH.

takes much longer to come to full maturity, it eats less food than the Rock after full maturity is reached. The pullets come into laying in from two weeks to a month after the Rocks, as a rule, tho some of both breeds will start laying at about the same age. Both breeds lay large rich-colored eggs and plenty of them, the Blacks averaging greater uniformity and depth of color. We believe these breeds about equal in egg production and both not to be surpassed by the much-advertised Leghorn "egg-machines." They lay well in fall and winter and also in summer if fed for egg production. As foragers they are about equals, but in nervous activity and flight the Langshan, tho heavier, puts it all over the Rock. The White Rock is always tame and docile even tho one does not keep in close contact with them, but the Langshan quickly reverts to a nervous wildness unless one constantly makes friends with them. Tho as tame as pets, put them on wild woodland range for a week or so and they will be like a flock of wild turkeys, easily approached but by no means tame.

It is natural to compare the Langshan with the turkey, as it has many points of similarity with that great American bird, more than any other variety of gallinaceous fowl, I think. There is little difficulty in breeding the Black Langshan true to type and color, there are few culls—far less than with the Rocks. Now and there is a sport, and this season we got one big black—or almost maltese—silky plumaged male out of our Blacks. He is all Langshan in size and shape, but all Silky in plumage. We hope to locate his dam, or his granddam, and mate him back to her and see what will come of it. All out birds are closely inbred and the Blacks have had no new blood of a foreign strain for a long time.

POPULARITY OF THE WHITE LEGHORN.

By H. S. CARTER.

A WHITE Leghorn, to me, is always a bird to admire, and what poultryman, no matter what he breeds, can say aught but this? Their bright, snappy eyes, sprightly carriage, pure white plumage, yellow legs, and, above all, their general air of alertness and inquisitiveness are bound to attract attention in any yard or show coop.

Some there are who object to the difficulty of fencing in the high flyers, but my experience has proved that when Leghorns are contented, a four-foot fence is as good as an eight-foot one; and, after all, the contented hen is the one that produces.

While on the subject of production, what breed, considered as a whole, has the enviable record of a White Leghorn? Notice the laying contests. Many



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Fred Page! B22 Rockford, Ill.

individuals may excel them, but what breed has the average for all the birds entered? How often do you hear the remark, "They lay almost as good as White Leghorns?" Every one concedes this; and to prove that so-called "utility" White Leghorns are bound to fall short of their name unless they are bred for beauty as well, beauty meaning show qualities, is the object of this article.

In the beginning, let's get that word "utility" properly located. The dictionary says it means useful, but to some breeders it means culls, birds that fall short of being show specimens; generally the short dumpy body, high tail and over-size comb.

A Leghorn of good type is narrow. It follows, that to gain room inside, they should have added length and depth. Did you ever notice that the low-tailed bird is usually long in body and the high-tailed bird the opposite? This means that the show bird has more room for the vital organs that produce the eggs, the aim of all poultrymen.

The principal howl from those who decry the show Leghorn is that the show hen has no egg record posted on her coop; however, such absence does not prove that she is incapable. The show season comes about the middle of her laying year, and any exhibitor knows that a hen to be at her best should be just ready but not quite laying; nor does he want her to lay in the show coop, as they sometimes contract the bad habit of egg eating.

What of her sisters at home? They are of the same blood line, but because of some minor inferiority were left at home. Maybe in less competition they could have won too, but they were allowed to follow their natural inclinations and begin laying in the fall and make the records.

Getting back to those high tails. Did you ever try to breed away from it? I have. I bought foundation stock of the so-called utility kind. High tails, red ear lobes, scanty plumage and all the commoner defects. And as layers, they were only about average for the breed. Remember, I had never heard of the Standard of Perfection and the word "utility" caught my eye. But after I had them, I naturally wanted to know what a Leghorn should be. I had heard of poultry shows, and to find out what constituted a show bird, I consulted the editor of a poultry journal published in my home town. He handed me the Standard, opened at the Leghorn illustration. I immediately shelled out the price and made a run for my yard, and I wasn't long in finding out that my "utility" birds were not Standard birds. That started me to thinking. From butchering an occasional chicken for the table I knew the location of the egg organs. I saw that my Leghorns were deficient right on top of those very organs, the feathering being very scanty, particularly on the male. Feathers are for protection, and protection there

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None better made 25-30c; 50-50c; 100-50c; 200-51.40; 500-53; 1,000-55. Numbered as desired. Also colored

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same price as Clinch Bands. Six samples assorted 6 cents. These celluloid bands are different from some, in that they are of good size, fully large enough for the breed intended.



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1st and 4th old pen, 1st young pen, 1st hen, 1st and 5th pullet, 2nd cockerel, 4th old cock. Best cock, cockerel, hen and pullet.

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We have a few good exhibition birds for sale.
Also - 18 Cockerels at \$5 to \$25.
30 Pullets at \$3 to \$10.
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We now have our pens mated and can furnish you eggs for hatching from prize winners. Send for my mating list and place your order early.

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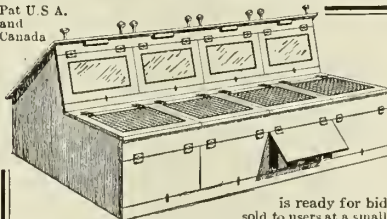
are the best money, experience and careful breeding can produce. They have the type and color that satisfies the most fastidious judge. They are real Reds in every sense of the word. My customers say: "The only difference between your eggs and the \$15 to \$25 kind is the price." Right now I have a splendid lot of cockerels and pullets for sale, that would improve your flock wonderfully. I am selling them at such reasonable prices that will move them in a hurry. Better order yours today.

Send for My Free 1918 Red Book

it gives full information and contains a lot of practical advice.

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Hatcher and Brooder Coop**

TWO-IN-ONE COOP

The most convenient coop that has ever been offered to the poultry raiser. This coop enables you, with very little work, to take care of hens while hatching. When chicks are hatched, remove partition and the coop is ready for biddy and her chicks. It is rat proof. Plans and Patent Right sold to users at a small cost. Special inducements during January. Write for circular.

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Day-Old Chicks and Eggs — for — Hatching

Order now for spring delivery. Our quality and prices are right. Still have a few choice COCKERELS at prices that will interest you. Get our catalog and price list before ordering elsewhere. It is free. **The ELLIOTT POULTRY FARM, - Route 7, Box 87, - Mansfield, Ohio**



Speckled Sussex

Pedigreed Cockerels, Pullets and Eggs, bred for their laying qualities from prize-winning males and females at Madison Square, Chicago Coliseum, Palace, New York State Fair, Philadelphia, Keystone Poultry Association, Doylestown, and other shows. Bred first to lay, second as show birds, secured by trap-nested pens, hatched under hens from the best laying females, each egg marked when laid, giving number of hen and pen, duly branded with colored spirals when hatched, and continued to full-grown birds. Write for prices.

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The bursting shells of American Chickdom presage victory for American arms if you do your bit, for "chickens may win this war."

Do it NOW by sending in your order QUICK before the great DRIVE is on. Prices for delivery after February 15, 1918, live delivery guaranteed:

- S. C. White or Brown Leghorns, per 100.....\$11.50
- Barred or White Rocks, S. C. or R. C. Reds, White Wyandottes, Black Minorcas and Buff Orpingtons, per 100..... 13.50
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Great Brooder Stove Offer. Catalog free. Stamps appreciated. **NABOB HATCHERIES, Box A, GAMBIER, O.**

White Orpingtons

Won at QUINCY one second and one fourth on four entries, besides remarkable winnings at Greater Chicago and other shows. We bought the flock of the late F. M. Springer, and possess some of the best birds in the country.

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We have mated these grand birds in four pens, from which we will sell hatching eggs that will produce some great birds. They have the best of care and range, and produce strong, vigorous stock. Send for mating list. All correspondence answered promptly.

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Keeler's Vigorous White Wyandottes

The Aristocrats of the White Wyandotte World
Won Five Firsts at Chicago, 1916

For 24 years they have been winning for me and my customers at America's best shows. Chicago, New York, St. Louis, New Orleans, Kansas City, Pittsburgh, Washington, D. C., Denver, etc. In buying White Wyandottes from me you receive the benefit of my quarter of a century of experience and the breeding back of the birds. I not only can supply you with winners, birds that will win in any show room, but also birds that will fill the egg basket. My birds laying from 200 to 265 eggs a year. And the prize winning females being selected from among these layers. Before you buy a single White Wyandotte, send for my new instructive 24-page art catalog, giving a full history of my birds.



Chief Winamac 4th

2,000 Birds for Sale

Cocks, hens, cockerels, pullets. Females \$5 to \$35; males \$5 to \$50; breeding pens \$25 to \$35 and \$50; show pens \$50, \$75, \$100 and \$150. I have no cheap birds, nothing but the best, so do not write me for \$2 and \$3 birds. Please state wants clearly. All stock shipped on approval.

Eggs Eggs Eggs Eggs

The pens to produce the 1918-19 winners mated December 15. After January 1 shall be in position to furnish you eggs from the 16 best matings of White Wyandottes in America. The best birds reared the past 3 years will be in those pens. My 1918 catalog of America's finest White Wyandottes, describing these matings, ready January 1. Eggs \$5 per 15, \$9 per 30, \$14 per 50, \$25 per 100. A limited number from the special matings at \$10 and \$15 per 15. Your wisest act before buying stock or eggs is to send for my catalog. (5 red stamps appreciated.)

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WINAMAC, IND.

Single Comb White Leghorns

WINNERS OF EVERY FIRST PRIZE
PANAMA-PACIFIC EXPOSITION

Exhibition and Foundation Stock
Line Bred and Trap-nested

Exhibition Birds for any show guaranteed to win.

Breeding Cockerels from trap-nested Hens. Will improve any flock.

Acknowledged by Judges everywhere to have the most uniform standard Leghorn type of any strain in America. Bar none.

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DOWNEY, CALIFORNIA



means more eggs in cold weather, so I set about to get more feathers on the back. I began a hunt for a male that had lots of feathers there. But growing feathers there is not a matter of one season.

Absolutely disregarding egg production or trapnesting, I did exactly what the fancier is accused of, breeding for feathers. I had those feathers only in mind, year after year, and I kept getting more and more. To my astonishment, I awoke to the fact that I was getting better tail carriage. That is, more to the Standard angle and that in protecting my "utility" birds where they most needed it I had made a show bird. Stranger still, in fact of all the yowls to the contrary from our non-showing friends, I was getting as many eggs, per hen average, as when I started five years before.

And right here is the burden of my story. More feathers on the back mean protection for the egg producing organs and lower tail carriage; lower tails mean longer bodies and consequently more room for those same organs. Therefore the show bird is the "utility" bird within the dictionary meaning of the word; i. e., "useful."

So here's to the *White Leghorn*. They come nearer in popularity than any other to being the national bird and this brings me to what I have always considered the best quotation in reference to them—the author may have had them in mind at the time—"A thing of beauty and a joy forever."

OPERATING AN ARTIFICIAL HATCHER.

Some Vital Points to Bear in Mind.

IN JANUARY, when the pullets are laying well; when the poultry shows are at full blast; when your yearling males are being sold off, and when you are about to enter upon another year of successful poultry raising, a few facts in regard to running your incubators, which have been covered with dust for the past few months, must be recalled, for January, February, March and April are the months in which you produce your next December's winners.

For the benefit of those who have had but a limited amount of experience in the handling of artificial hatchers, a few paragraphs may prove to be of practical help and inspiration and will probably save considerable time and expense.

Before purchasing your incubator, have a dry cellar ready. If this is not available, any room that is dry, well ventilated and free from drafts will answer the purpose if it is conveniently located for the attendant. Inconvenience will soon lead to carelessness.

In purchasing your machine, try to

White
AND
Buff



SCOTT'S
SHOW
STOCK

ORPINGTONS Single comb.
Won at Iowa
State Fair.

Show and utility stock for sale. Write your wants.
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THREE OAKS
COLUMBIAN WYANDOTTES
Breeding and Exhibition Stock. RALPH WOODWARD
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Where Does the Money Go? Where Did It Come From?

Those are the big questions. Be able to answer them by keeping accurate records in our new, simple,

Poultry Account Book

This book contains space to keep a detailed daily record for one year of Eggs Laid, Value of Stock Sold, Eggs Sold, Eggs and Stock Used for Table, Expenses for Labor, Feed and Miscellaneous. With the aid of this book you can tell where your leaks are, where the profits come from, and it will serve as a guide to making your business more profitable. Printed on good quality writing paper suitable for ink. Price 25 cents.

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FIRST PRIZE PEN
Madison Sq Garden
1916-17
Owned by
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buy one just a trifle larger than you really need at the present time; you will not regret it. It will not be necessary to completely fill it with eggs this year, but do so next year. With every incubator is an instruction book, for the one purpose of protecting the purchaser from failure. So by all means do not discard your instruction book. Many persons have ruined a hatch that could have been saved merely by carefully reading the accompanying directions. Do not attempt to remove or try to assemble any parts before you have studied thoroly every word of these.

After setting up the machine and before you are ready to put in the eggs, keep the machine running steadily at the desired temperature, 102½ degrees, for several hours. Put in your eggs when a constant temperature is attained. Never, under any circumstances, put eggs on top of each other and do not add any eggs to the machine during the incubation of the first eggs. Failure is certain if these last two points are disregarded.

Attend to your lamp regularly every morning, first turning your eggs. If done in reverse order, grease or oil of some kind invariably gets onto the eggs, stopping the growth of the germ. Consequently the egg will not hatch.

After the end of the seventh or eighth day, test the eggs. Dispose of the infertile eggs and the dead germs. Test them on the fourteenth day in the same manner. Usually the instruction book also gives full and complete directions for testing eggs.

The main point to bear in mind is regular attendance. Turn and cool your eggs at the same hour each day. Fill your lamp, clean and trim the wick each morning.

These points constitute the foundation of success with artificial hatchers, so by all means follow them and read your direction book carefully, and you will be on the road to success.

J. MARSHALL SEELANDER,
Oklahoma City, Okla.

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for Poultrymen

When feed is high and labor is scarce — save money with Galloway's

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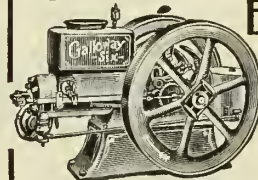
You can make up for high cost of feed and labor by doing your work with a Galloway Engine. Let it pump your water, run your feed mill and shell your corn. These are times that call for greatest economy and Galloway power is one sure way to economize.



Galloway Engines mean economy in the work they do and the way I sell them, because they are—

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For only one cent you can get this wonderful poultry money-maker. Your hens will lay more eggs—larger eggs. Lazy hens will start laying. You can get fertile eggs. You can get eggs for early setting. Get plenty of eggs when they sell at highest prices.

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Get as many eggs in winter as in summer. It's all a question of feed. The Humphrey way makes chickens pay. You can cut your feed bill in half and at the same time get twice as many eggs. Let me tell you how. You can force your hens to lay as many eggs this winter as in the summer time by using a Humphrey Green Bone Cutter. Write for free copy of "The Golden Egg." Tell me how many hens you have and get some money-making facts from me by return mail. Send postal today.

HUMPHREY
White Street Factory
Joliet, Illinois



Big Winter Eggs Out of Clover. How? Ask Me.

CO-OPERATE OR QUIT BUSINESS.

By RALPH SEARLE, Topeka, Kansas; Chairman Executive Committee, International Poultry Federation.

THE above caption is not a threat. It's merely a terse statement of the alternatives that confront the poultry producers of this country and Canada at the present time. With each passing month the situation in the poultry world has been becoming more acute, conditions more unsettled, the problems facing each individual poultryman more perplexing. More and more it has been rendered apparent that "the old order changeth." The world is being reborn. Established precedent is no longer a safe guide. Changing conditions are demanding new methods in every line of human activity. And the poultry industry is no exception to the rule.

Several months ago it became apparent to a number of men who have spent the best years of their lives in studying the problems and conditions affecting the poultry industry, that the present crisis could not only be met thru an organization that could quickly be extended to reach every man, woman and child engaged in the production of poultry. It was seen that co-operative effort must take the place of individual effort, especially in the purchasing and selling end of the business. The old motto, "Every man for himself, and the devil take the hindmost!" must be supplanted by the motto, "One for all, and all for one." "United we stand, divided we fall," was never more true than in the present emergency.

With these facts in mind, the first step was taken last fall at Kansas City, in the organization of The International Poultry Federation, an organization to be composed of specialty clubs representing each recognized variety of poultry. The organization of twenty-five of these clubs, representing twenty-five of the most popular varieties of poultry, is now well along toward completion. Each of these clubs is being chartered as a "corporation not for profit," with a capital stock of \$5,000, shares of stock being \$1 each. Only breeders who can present a "clean bill of health" are permitted to purchase stock, the reliability of each stockholder being guaranteed in the form of a \$100 surety bond. All stockholders, of course, are life members without further payment of dues. Annual members are also being accepted in each of the clubs, the fee being \$1 per year, which also includes membership in The International Poultry Federation. The president of each club is

SPROUTED OATS—WINTER EGGS



The Vapor-Bath Sprouts produced by the Close-To-Nature machines possess an efficiency for prolific egg-production not found in sprouts grown the old way or in many so-called grain sprouters. A sweet, succulent, tender, edible, palatable sprout is grown in the Close-To-Nature Vapor-Bath machines.



Sprouted Oats From One Bushel Of Grain



CLOSE-TO-NATURE GRAIN SPROUTERS

Cut down the feed bill and run up the egg yield. Change high priced dry grain into low priced green feed. Make one bushel into three or four. The Close-To-Nature vapor-bath sprouters produce the succulent sprouts, the vegetable milk and the grape sugar that contribute to prolific egg production. The originators of the grain sprouter business and the largest sprouter manufacturers in the U. S., offer three kinds and many sizes from 1/4 bu. to 8 bu., for a few hens to 1,000.

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nomical and efficient sprouter ever put on the market.

the original sprouter, double walls, cyprine case outside, galvanized steel grain chamber inside—the most economical

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for use in furnace room or other heated room. Trays slide, not stack up. Take out any tray without taking down stack. Drip pan with drain tube. double walls, insulated, built on two bases, small base for back yard flocks, large base for egg farms. Add as many sections as needed.

Get our circulars giving full information on sprouted oats and eggs and 100 letters from our customers.

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ROUP?

That's what causes 50% of the chicken losses.

Stop It Quick Just put Conkey's Roup Remedy in the drinking water. At dealers, or sent direct, 30c and 60c. Send 4c for complete book on poultry raising.

THE C. E. CONKEY CO.
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Conkey's ROUP REMEDY



You can get the American Poultry Journal 3 years for \$1

a member of the board of directors of the federation. Each club will advertise co-operatively, the slogan being, "Buy From Bonded Breeders!"

The next step, and the most important one, in mobilizing the industry and putting it on a safe basis, is now being taken. It consists in inaugurating a nation-wide system of co-operative marketing of poultry and eggs, and the co-operative purchasing of poultry feeds and supplies. A strictly co-operative organization is being perfected, to be known as The National Poultry Exchange. The fact that so many local attempts at co-operative marketing have ended in failure, has been due to the fact that they had no one at the terminal markets to take the final step between producer and consumer who was interested in seeing co-operative marketing succeed. In fact the contrary was true, with the result that returns were unsatisfactory, and the local experiment in co-operative marketing ended in the verdict that there was "nothing to it." The National Poultry Exchange is being organized for the purpose of surmounting this serious obstacle to successful co-operative marketing. It will be the central organization thru which the local co-operative organizations will operate. Offices will be opened in the leading terminal markets, to which local organizations will consign their products for final disposal. Each local organization will purchase one share of stock (\$100) in The National Poultry Exchange. All stock will bear a fixed dividend of 8 per cent per year. Profits in excess of this amount will be divided among the local organizations holding stock, in proportion to the amount of business which each such organization has done with the exchange during the year.

Each of the specialty clubs affiliated with The International Poultry Federation is investing one-tenth of the membership fees received in stock in The National Poultry Exchange. This will not only provide funds for starting the work of the exchange, but will provide a gradually increasing source of revenue for each of the clubs, virtually amounting to an endowment fund.

Altho the first announcements of the preliminary organization of The National Poultry Exchange were sent out less than sixty days ago, letters are being received from all parts of the country pledging co-operation in this important movement. Local poultry show associations are taking steps to organize on a co-operative basis, and are conducting vigorous campaigns among the poultry producers of their various communities. There is every reason to believe that several hundred such organizations will market their poultry and eggs thru The National Poultry Exchange during the coming season.

The writer, or any member of the executive committee, will be glad to furnish model constitutions to local co-operative organizations, and in every other way assist in the formation of efficient, business-building organizations for poultrymen anywhere—except Germany

HOUSTONIA

Red Sussex

THE COLDER THE DAY

WE OFFER

\$100 Cash Prizes On Red and Light Sussex

at Sussex Club Show, Cleveland, Ohio, January, 1918. Write for particulars. We will show at Madison Square Garden only this season, and can supply exhibition stock of the very best at prices within reason for any other exhibitor in America.

Hatching Eggs.—Do not put off the selection of your hatching eggs too long this year. Remember they are going to be very scarce and book your order in advance. There is no better place in the world to purchase your eggs than from us, and we guarantee satisfaction.

HOUSTONIA POULTRY FARM Dept. A SOUTH CHARLESTON, OHIO

Light Sussex

THE BETTER THEY LAY

STOCK SALE

February, March and April hatched birds are up to size; bred from Madison Square Garden and Chicago Coliseum winners and without doubt the finest ever produced.

Bargains in Trios at \$10.00 and Pens at \$15.00 while they last.

Exhibition stock that can win anywhere, at reduced prices. Let us quote you on your needs.

TRAPNEST Record Cards

Size 5½x9 inches, printed on a good grade of strong cardboard, with eyelets for hanging up in the poultry house. Each card contains space for a daily record for one month for each individual hen in a pen of fifteen fowl.

Price, per doz., 50c; 3 doz. for \$1

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I want to show you how to make Money with Poultry
T. E. Quisenberry

What Others Say.

I can now save enough on feeds to pay for the entire course. F. M. LILL, LaGrange, Ill.

I would not take the price of the whole course for the lessons on breeding and mating. F. L. NOYER, American Fork, Utah.

I could have saved about \$400 had I taken your course before I started. FRANK SAWYER, North Woburn, Mass.

The knowledge I have gained from the disease lesson is worth the price of the course. GEORGE W. MORRIS, Russellville, Ky.

I have been in the building business for 30 years but your lesson on Poultry House construction is the best I have ever seen. E. M. WIGGIN, Kansas City, Kas.

Your lesson on baby chicks is just what we have been looking for. Last year we lost 650 chicks out of 1600. This is the result of just one of your lessons. GEO. M. JONES, Escondido, Calif.

IT is my earnest desire to put a real—useful—practical poultry education before every man and woman who is interested in poultry raising. I want to see more and better poultry raised—I want to see more people making money with chickens—I want to eliminate the losses and disappointments that so many poultrymen experience—I want to help you solve your poultry problems—and I can do it.

A Complete Poultry Education

I have made it possible for you to obtain right in your own home, during spare time, a complete—thorough—and practical a knowledge of poultry husbandry such as you could get nowhere else except at an agricultural college.

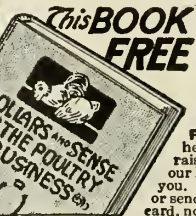
In a course of lessons taught by mail, I have completely covered the science of poultry husbandry and made it so plain and simple that anybody can understand it. I give you knowledge it has taken me a lifetime to acquire.

I show you how I make hens pay a big profit each year. I show you how I got 2,354 eggs from ten hens in a year. I show you how to feed for a big egg and meat production, how to select a site for your poultry plant and how to build your houses (right here I save you many times the price of the course)—how to get winter eggs and spring broilers—how to incubate and raise baby chicks—how to mate and breed—how to avoid and treat poultry diseases—how to show and win at poultry shows—how to dress and market poultry for the biggest profits. In other words there is no phase of poultry culture that you are not taught thoroughly. Hundreds of our students tell us that each lesson is worth the price of the whole course.

You cannot afford to be without these lessons. They pay for themselves many times each season in increased egg yield—in preventing losses from disease—in knowledge. The broadest guarantee it is possible to write covers this course. If you are not satisfied you do not pay.

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Our Free Book "Dollars and Sense in the Poultry Business," fully explains how we can help you to make more money and save money raising chickens. It explains in detail just what our lessons teach you and what they can do for you. Just fill in and mail the attached coupon or send your name and address on a post card, no letter necessary, and a copy will be sent you by return mail.



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It's because of imperfect moisture regulation—Use an "AEM" Hygrometer and you'll always know exact amount of moisture in your incubator, and get far bigger hatches of bigger, healthier chicks.

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Chicks
100,000
For 1918

Barred and White Rocks, White, Brown and Buff Leghorns, Rhode Island Reds, Broilers, White Wyandottes, Black Minorcas and Anconas. Good size and heavy layers. Lowest prices.

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Large, great layers, pure white, DAY-OLD CHICKS, booking orders now for Spring delivery. Everfresh Egg Farm Ionia, Mich.

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THE HOPPER THAT IS DOING ITS BIT
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ROSE COMB TOMPKINS' RHODE ISLAND REDS SINGLE COMB

A grand bunch of stock ready for fall fairs and the early winter breeders. Cocks, hens, cockerels or pullets ready for shipment on a minute's notice. 100 cockerels of a good utility grade, at \$5 each. 200 pullets nearly ready to lay, at \$2 each. Also 100 clean, Red pullets for the foundation of good, clean stock, at \$4 each, with males to mate with them for \$10 each. All high grade show birds—a matter of correspondence. Address your wants to

HAROLD TOMPKINS, Box A, CONCORD, MASSACHUSETTS, and receive a reply by return mail.



WHITE ORPINGTONS
 BRED AND OWNED BY
F. M. GENSCH
 OMRO
 WIS.

First prize White Orpington pen at Chicago Coliseum Show, December, 1917. Owned by F. M. Gensch, Omro, Wisconsin.

Chicago Coliseum Poultry Show.

(Continued from Page 27)

this breed that we have had in recent years.

Up until the opening of this show the exhibitions that had been held in the largest cities have not been up to standard, either in the number of entries or in paid admissions. In fact, many came to Chicago rather discouraged with the outlook and feeling that with the high price of feed it might be well to give up the business entirely, but when they stepped into the Coliseum and saw this immense exhibit and the enthusiasm of the breeders and everyone hustling to

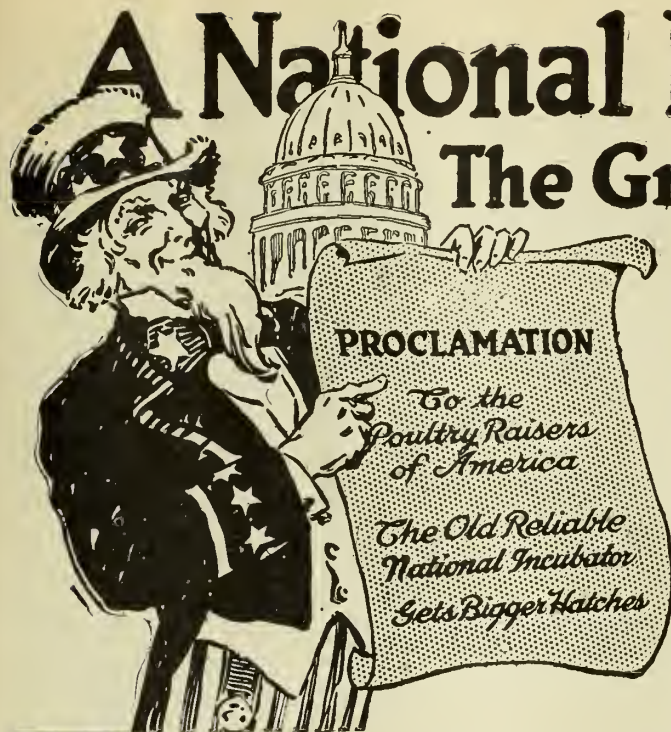
put the thing over big, they themselves became enthused with the business and went home carrying the good news to all parts of the country that the big show in Chicago was a grand success, and regardless of conditions the management here was able to put it over and that they had personally seen sales of many specimens at high prices and advised the boys at home to put their shoulders to the wheel and put it over as the Government expects them to put it over. As one editor expressed to the writer, "If your show had been a failure this year, or not up to what you would have considered the standard of former years, it would perhaps have had a more damaging effect on the poultry

A National Proclamation

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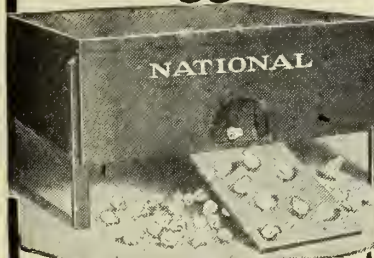


For years we have manufactured the good old reliable National Incubator. For years we have successfully started thousands in the profitable poultry business, and during all these years we have longed to build a bigger, better, simpler machine to sell at a price everyone can afford. At last we have accomplished our desire. Our 1918 National with all the latest features and improvements is a revelation to the poultry world. Think of it—165 Egg National Incubator for only \$10.00, freight prepaid—On 40 Days Trial—Backed by Our Money Back Guarantee. Your hard-earned dollars cannot buy greater hatching value. You cannot equal this exceptional offer anywhere. Take no chances. The National is simple, compact, durable, economical—and remember, it is

Built on "Uncle Sam's" Specifications

as outlined by the U. S. Dept. of Agriculture in Farmers Bulletin No. 236. We want to prove to you that the old reliable National Incubators are the best built, best equipped and most durable machines made for the money. Here's how we built the National. Hot water heating plant—Double wall—Dead air space between—Double glass doors—Special high grade cold rolled copper tank—Asbestos lining—Famous National regulator and boiler—Self Regulating—Self Ventilating—Safety lamp—Tested thermometer—Metal case (which makes it sanitary, air tight and non-shrinkable). No extras to buy. Not a cheap tin covered machine. Easy to operate. Will not warp or shrink. Pays for itself many times in one season. With proper care will last a lifetime.

165 Egg National Incubator



The National Brooder Better Than The Hen

Protects the tender chicks from all harm. Keeps proper temperature—properly ventilated—strong—durable. Sent prepaid east of the rockies.

165 Egg Incubator Both \$12.50
165 Chick Brooder

ONLY \$10
Freight Paid East of the Rockies

We have built thousands of incubators, but never have we offered such amazing value. The National contains every modern operating convenience. We guarantee it to be faultless and will replace any defective part for five years. It is the greatest incubator value ever offered. To prove it to you we will send it for

40 Days Trial

12 Year Guarantee



What Users Say—

The Incubator you kindly sent the Agricultural class of the Garretville High School proved a wonderful success. The simplicity of putting the parts together; the ease of regulation; are virtues which speak for themselves. We recommend your machine to anyone. G. H. S. Agricultural Class, Ohio.
Please ship at once 165 egg machine. My other one is O.K. Got fine chicks my first hatch. Harry Neff, W. Va.
I find everything just as you advertised it. Mrs. M. G. Potter, Mich.

Why Take Chances

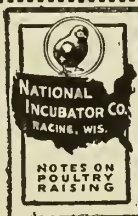
Safety Lamp

Cannot explode or ignite—reliable, unbreakable. Produces steady blaze without smoke or fume. A sputtering, flaring, unreliable lamp will spoil your hatch and may cause fire.

To save time you can order direct from this advertisement. You risk nothing. Try the National for 40 days—compare with your neighbor—put it to the greatest of all tests—THE HATCH. If you are not satisfied it is the greatest incubator bargain you ever saw return it at our expense—we will promptly refund your money. We know you will not return it after your first big hatch of strong healthy chicks. You are absolutely safe. We deal fair and above board—no red tape. The publisher of this paper knows we will stand back of our word.

FREE 1918 Poultry Book

No matter whether you hatch 10 or 10,000 chicks you need this great book. It is far more than a catalog. Tells all about the care of eggs and chicks. All about this great hatcher and the men behind it. Worth dollars to every poultry raiser. Just the thing for beginners. Don't fail to get it when a postal will bring it. Send postal today.



SEND ORDER DIRECT

This is the Greatest Incubator Opportunity You Will Ever Have

Use it the year around. Its perfect construction, simplicity, wonderful heating plant and metal covering combine to give it the greatest hatching value. This big metal covered machine is not to be classed with cheaply built machines. With proper care it will give you years and years of faithful service. Comes to you set up ready to run with egg tester and book of instructions. Order now and save time—start hatches early—early chicks bring the most money. Send postal money order, bank draft or certified check for \$10, (\$12.50 for both incubator and brooder. Machines will be shipped day order is received so don't delay.

NATIONAL INCUBATOR COMPANY
Box 160 Racine, Wisconsin

OUR MONEY BACK Guarantee Protects You

Take no chances, the hatching season is too short. This dependable Hatcher is the largest, simplest and best machine on the market for the money. Money cannot buy greater hatching value. You cannot fully appreciate this wonderful machine until you have tried it. The National gets big hatches when days mean dollars. Order this dependable hatcher today or send for big book and read what users say.

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TELL THE AGE OF POULTRY

Carefully made of seasoned material. Successfully used by poultry raisers everywhere. Red, white, blue, pink, green, black, yellow and ruby. Mention variety when ordering.



ECONOMY BRAND—Single coil for adult fowls. 12 for 15c; 25-30c; 50-50c; 100-80c; 250 \$1.80; 500-\$3.50, postpaid.



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THE VICTOR BAND Large printed numbers, bright clear colors—Red, white, blue, green, yellow. Made of celluloid and aluminum. Adjustable. 12 for 35c; 25-65c; 50-\$1.25; 100-\$2.25; 200-\$4.00, **Victor Sealed Band**—12 for 40c; 25-75c; 50-\$1.50; 100-\$2.75. Pliers 50 cents.

ALUMINUM BANDS



THE CAPITAL BAND Has raised figures. Adjustable, strong, smooth edges. 12-15c, 25-25c, 50-40c, 100-65c, 250-\$1.50, 500-\$2.75, 1000-\$5.25.



THE FAVORITE BAND Made of heavy aluminum with smooth edges, large raised numbers, locks with double clinches. Prices same as The Capital.



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Poultry Cuts New designs, a complete line. Catalog Sent Free.
Favorite Poultry Punch, Price 25 cents.

CHAS. L. STILES

Department 6 COLUMBUS, OHIO

breeders of the Mid-West than any one thing that could happen to the business, but when they came here and saw that you had put over something big in the face of opposition and discouragement, they are going home now and many have already promised to come back stronger next year than ever before."

I sometimes wonder, in handling exhibitions of this kind, if the exhibitors generally understand the immense amount of work there is connected with the show business, and that the little carelessness in entries and waiting until the last minute to make entries, then after having them on the books for two or three days, they want to enter a cock for a cockerel or a hen for a pullet and one or two birds added that they did not know they were going to show at the time they made up their entries, greatly adds to the work of the management. If you could really know what this means to the busy officers of the shows, we know you would make them correctly in the first place.

Another matter of importance to the exhibitors: Why will you insist on sending high class exhibition specimens to the Coliseum and the Madison Square Garden Shows in dilapidated broken-up shipping coops? In some instances it was necessary to rebuild the coops the birds were sent in to send them home. One exhibit was shipped in an old worn-out paper crate, and when we tried to coop them on their return trip the whole bottom came out of it. I actually hope to see the day when all paper coops will be tabooed and we believe that it will be necessary for the officers of the big shows to state in their printed matter they will not accept birds in these kinds of crates. If the paper manufacturers cannot make a coop that will stand up for the wear and tear of these shipments then they should substitute something that will stand up, but when one considers that the breeders have spent five or six months trying to produce a few specimens fit to go into these big shows and have probably invested all the money they can afford to invest in order that they may establish for themselves a record and then deliberately send them to the exhibition in coops where the chances are ten to one they will not arrive in the proper condition to be exhibited, it does seem that the "penny-wise, pound-foolish" fellow is abroad in our land and should be lassoed and made to apologize to the chickens themselves.

This is the first time that the Coliseum management had attempted to put on the Government exhibits. The same show was displayed here that was displayed at Madison Square Garden, New York, but we do not believe it attracted the attention that it does attract in New York, nor do we believe it is of special benefit for the Government that it be displayed in the Coliseum or in any city of the size of Chicago. If it is going to be displayed it should be displayed in cities where the local papers can be brought to realize the immensity of the business and will give to the reading public some information that will call special attention more than the straight advertising that the association carries. We really believe it would have been a better investment from the dollar and cents standpoint of the management and really better for the Government itself

45 PER CENT in NOVEMBER

Our pen of S. C. REDS led the first four weeks of the North American Egg-Laying Contest (official Delaware) with a production of 45%, against 28% for the next highest Reds and 13% for the 100 pens of all breeds. Four of our five pullets laid respectively 46%, 50%, 54% and 57%—remarkable results for November. We breed hens for egg-laying type as dairy-meat bred cows for milk. You could not buy a \$2,000 Holstein bull for \$75. The best is the cheapist. If you have Reds or Leghorns we can improve your stock.
R. I. Red hatching eggs, from 250 to 280 egg-type hens, \$5 for 15, \$25 for 100. Eggs from 200 to 250 egg-type hens, \$3 for 15, \$15 for 100. Eggs from 150 to 200 egg-type hens, \$10 for 100.

OUR SINGLE COMB WHITE LEGHORNS

are the product of long and correct breeding. They are true egg machines with the stamina to stand up under the strain.
Leghorn hatching eggs, from 250 to 280 egg-type hens mated to a son of LADY BURG-LANTINE (314-egg official champion), \$5 for 15, \$25 for 100. Eggs from 200 to 250 egg-type hens mated to grandsons of Lady Engantine, \$3 for 15, \$15 for 100. Eggs from 150 to 200 egg-type hens, \$10 for 100. Catalog on request. Hatching eggs sent safely last year to California, Oregon, Florida and Brazil.

All stock strictly standard bred. First come, first served. Order now.

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Poultry Patents Pay

Your invention if protected and developed may bring big returns. I make a specialty of poultry patents. Submit drawings or model. New booklet, "Pointers about Patents," free on request.

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Lange's Buff Wyandottes

WIN AND WEIGH—LAY AND PAY A few good breeders for sale. Eggs \$2.00 per 15 J. G. LANGE, 1191 Scotten Ave., Detroit, Mich.

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MARVEL COLONY BROODER \$17.50



Coal Burning, Self Regulating. Super-Automatic Check Control. Exclusive Patent Features.

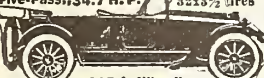
The MARVEL is guaranteed to perform better and to raise more chicks than any other Brooder. Big saving in operating expense. Will brood 50 to 1000 chicks for less than 6 cents per day. Cuts initial cost for equipment to less than one half. Perfect satisfaction guaranteed or money back in 30 days. Send for Circular on "Scientific Brooding."

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Driver Agents Wanted

Drive and demonstrate the Bush Car. Pay for it out of your commissions on sales. My agents are making money. Shipments are prompt. Bush Cars guaranteed or money back. 1918 models ready. Write at once for my 48-page catalog and all particulars. Address J. H. Bush, Pres., Dept. 1117 BUSH MOTOR COMPANY, Bush Temple, Chicago, Illinois



if this exhibit had been displayed at Milwaukee, rather than at the Coliseum. The Milwaukee papers would really have given us prominent position and would have played it up as it should have been played up, while the Chicago papers, what little notice they did give us, was so short and so badly displayed that but few people, aside from the real breeders themselves, had any knowledge that such an exhibit was in the Coliseum building.

While on this subject, it is no more than fair to call attention to this one fact, that these exhibits, when placed in a poultry show, no matter where, should be at the expense of the Government itself that we maintain by direct taxation and not at the expense of the association. Many shows have asked for information in regard to this Government exhibit and I would say for the benefit of the associations that all of the expenses in connection with the transportation and the expenses of the Government employees have to be paid by the show. Figuring the distance between Washington and Chicago, the exhibit at the Coliseum will cost the association between \$250 and \$300.

This year the Coliseum Show put on, for the first time, a new style coop card, giving the names and addresses of all exhibitors before the birds were caged. We heard so many favorable comments on this, and there was such an absence of chronic kicking on the part of the exhibitors, that we believe it is one of the best moves we have ever made and I am convinced that it is only a matter of time before every show in the country will follow our lead in this important matter.

With the sixteen judges working in the poultry department and five in the pet stock department, we did not have a single kick in the office on any awards that were made and we believe that much of this is due to the fact that every breeder and every judge knew just exactly whose birds he was handling and the exhibitors knew whose birds were winning, and that every one was having an equal chance, the little with the big, and the big with the little.

The concession feature in the Coliseum has become one of the important parts of this exhibit and the management is particularly proud of it. We have here what we believe to be the most representative men in the poultry feed and supply business in America, who come regularly to this show, taking good liberal space and putting up the most attractive exhibits to be found anywhere in the country. This is one show that does not tolerate the faker of any kind and the nine years that this exhibit has been under its present management this one feature of the show has been kept absolutely clean. No top men, spy-glass venders, opticians or fortune tellers are allowed to work in the building, and this year we went one step farther and eliminated the bar that has been run in the basement or the grill room of the building, demanding when we signed up our lease that the bar be closed for the week of the poultry show.

For the first time two immense poultry exhibits were displayed in addition to the regular entries. U. R. Fishel, of Hope, Indiana, and J. C. Fishel & Sons, of Hope, Indiana, taking space 20x20, and bringing in a lot of high class sales birds in addition to their regular show

Get Big Hatches— then Raise the Chicks

America must produce more poultry and eggs, hence American poultrymen should apply "efficiency" to their business. They must stop loss or waste of hatching eggs, baby chicks and labor.

This means they must use the most efficient incubators and brooders even if compelled to discard present wasteful equipment and replace with the time-saving, results-insuring type. Newtown equipment will not disappoint you. The

Newtown Giant Incubator

*"hatches the most chicks, the best chicks,
with least labor and at lowest cost."*

These are straight facts! Ask Newtown owners. The Newtown Giant is at once highly efficient and most convenient, automatic in operation, fitted with exclusive features which save labor and worry and insure uniformly fine results. Newtown hatches are famous for the number, size and vigor of the chicks produced.

Learn all about this great machine. Write for the *Newtown Incubator Catalog*, stating the size of machine which interests you. Newtowns range from 600 to 24,000 egg capacity.

When it comes to brooding, the

Newtown Colony Brooder

*"grows the most chicks, the best chicks,
with least labor and at lowest cost."*

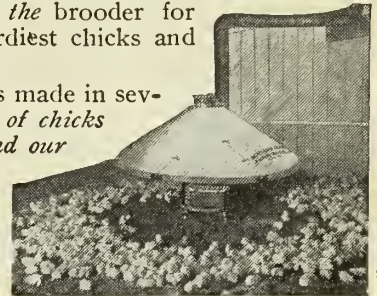
More facts! The Newtown is the original coal-burning colony brooder, the most popular and successful type of brooder ever produced. Like all good things, it has been imitated but never equalled. *First in the field, it still leads.*

Convenient, economical of fuel and labor, safe, durable, self-feeding and self-regulating, it is the brooder for those who wish to grow the sturdiest chicks and lots of them.

The Newtown Colony Brooder is made in several sizes. Advise us the number of chicks you wish to grow and we will send our brooder catalog free.

**NEWTOWN GIANT
INCUBATOR CORP'N**

21 Warsaw St. Harrisonburg, Va.



FEEDING FOR EGG PRODUCTION

This is the Title of a small book we have just issued, written by H. L. KEMPSTER. By following this feeding system you can be sure of the best egg yield. It has plain tables for feeding and tells exactly

HOW AND WHAT TO FEED FOR BEST RESULTS.

Whether you keep ten hens or ten hundred, you cannot afford to feed them **HIGH PRICED FEED** unless they lay regularly, and this book tells you how to feed. A food that has material for **100 yolks** and only **25 whites** will mean that the hen can lay but **25 eggs** on that feed. The over-supply of yolks in that feed cannot be used and goes toward making fat rather than eggs.

This Book not for sale, but given Free with 6 mos. trial subscription to **POULTRY KEEPER** at 25c. **POULTRY KEEPER** is the most helpful of Poultry magazines. It is practical. It is published for those who want to make **Poultry Pay**. It is chock full of money saving suggestions.

Write Today Send 25c for Six Months trial subscription to **POULTRY KEEPER** and receive a copy of "Feeding for Egg Production" by return mail **FREE**.

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At Chicago Coliseum, December, 1917

the leading exhibition of poultry west of New York,

U. R. Fishel's White Ply. Rocks

made a winning never equaled by a breeder of this variety, and is positive proof that there is but one HEADQUARTERS for White Plymouth Rocks and that is FISHELTON FARMS, Hope, Indiana.

FIRST PRIZE

Cock—1st, 3rd, 5th, 6th.
Hen—1st, 2nd, 3rd, 5th, 7th.
Cockerel—1st, 2nd, 3rd, 4th.
Pullet—1st, 2nd, 3rd, 4th, 6th.
Pen Chicks—1st, 3rd.
Pen Fowls—1st, 2nd.

On 24 Entries Won 22 Prizes

All first prizes, all seconds but two, all thirds but one. Silver cup for best display. Champion cock, hen, cockerel and pullet. Best shaped male. Best colored male. Best shaped female. Best colored female.

The above winnings, together with our winnings three years in succession at the Coliseum Show, also our winnings at SIX INTERNATIONAL WORLD'S FAIRS, twelve State Fairs, Hagerstown, Md., Cincinnati, Atlanta, etc., is

A Record Unequaled by Any White Rock Breeder

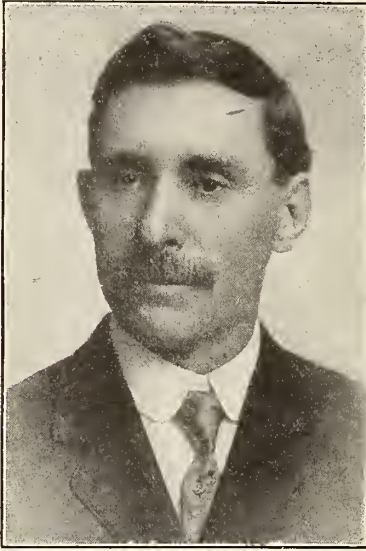
Not only do the FISHEL WHITE PLYMOUTH ROCKS win prizes but they PRODUCE EGGS, in fact there is no better WAR TIME poultry than Fishel's White Plymouth Rocks.

Selected Breeders. Male birds that will stamp FISHEL QUALITY on your flock. Females that carry blood lines and egg-yielding qualities no other White Rock breeder can give you.

Utility Fowls, the best war time poultry possible. Back-yard flocks or flocks of any number at interesting prices. Write me your wants, please.

EGGS FOR HATCHING—BABY CHICKS

U. R. FISHEL Box A HOPE, INDIANA



string. We believe this feature proved a good investment to the Messrs. Fishels and was one of the big attractions of the show.

Below we are printing the list of awards, so we do not consider it necessary to make mention of individual birds or classes. The competition was strong in every variety, from cocks to pullets, and it goes without saying that a winning at the Coliseum means that the exhibitors have as good birds or pet stock as can be found in this country.

COLISEUM AWARDS.

White Plymouth Rocks—U. R. Fishel, Hope, Ind., 1-3-5 cock, 1-2-3-5 hen, 1-2-3-4 ckl, 1-2-3-4 pl, 1-2 old pen, 1-3 young pen. Starks Farm, Starks, Wis., 2-4 cock, 4 hen, 5 ckl, 5 pl, 3-4 old pen, 2-5 young pen. Edwin N. Piper, Eureka, Ill., 4 young pen.

Partridge Plymouth Rocks—S. A. Nofzger, N. Manchester, Ind., 4 cock, 1-2-4 ckl, 2 pl, 1-3 old pen, 1 young pen. Lloyd & Pierce, Hope, Ind., 1 cock, 1-4 hen, 3 ckl, 1-4 pl, 2 old pen, 2 young pen. Taylor Bros., Cambridge, Ill., 3-4 cock, 2-3 hen, 5 ckl, 5 pl, 4 young pen. Geo. C. Jackson, Oconomowoc, Wis., 2 cock, 5 hen, 3 pl, 3 young pen.

Buff Plymouth Rocks—Edw. E. Minard, Lorain, Ohio, 2 cock, 1-2 ckl, 1 pl. E. H. Kelly, Stafford, Kansas, 4 cock, 5 hen, 5 pl, 1 old pen. Rothgeb Bros., Millford, Ill., 3 cock, 4 pl. F. W. Kramer, Fort Atkinson, Wis., 5 cock, 1-2-4 hen, 5 ckl. Frank J. Nutting, Brandon, Vt., 1 cock, 3 hen, 3 ckl, 2-3 pl, 1 young pen. Aben Gelande, Oregon, Ill., 4 ckl.

Silver Penciled Rocks—Peter Jungles, Jr., Lemont, Ill., 1-2 cock, 1-2 hen, 1-2 ckl, 1-2 pl.

Blue Plymouth Rocks—Frank G. Hasselmann, Indianapolis, Ind., 1-2 cock, 1-2 hen.

Exhibition Barred Rocks—D. F. Palmer, Yorkville, Ill., 5 cock, 1 hen, 2-5 ckl, 2-5 pl. W. E. Cowan, Waterloo, Iowa, 2 cock, 1-4 ckl. G. A. Walker, Polo, Ill., 1 cock. Rombauer Farms, Brickys, Mo., 3 cock, 4-5 hen. G. Earl Hoover, Matthews, Ind., 4 cock. Mrs. Chas. E. Popham, Charleston, Ill., 3 hen. Arthur Irvine, Lake City, Minn., 2 hen, 1-3-4 pl. Fred Shellabarger, West Liberty, Iowa, 3 ckl.

Barred Plymouth Rocks—Dark Mating—D. F. Palmer & Son, 4 hen, 2 pen. W. E. Cowan, 1 hen, 2 pl. Fred Bowers, Woodstock, Ill., 3 hen. Arthur Irvine, 2 hen, 1 pl. G. Earl Hoover, 5 hen. Fred Shellabarger, 3 pl. Mrs. Chas. E. Popham, 5 pl, 3 pen. W. L. Pattison, Waterloo, Iowa, 4 pl. G. A. Walker, 5 pen. Howard O. Sears, Garden Prairies, Ill., 1 pen.

Barred Plymouth Rocks—Light Mating—D. F. Palmer & Son, 2-4 cock, 1-3 ckl, 1-2 pen. Mrs. Chas. E. Popham, 3 cock, 3 pen. Rombauer Farms, 5 cock, 4 pen. Arthur Irvine, 1 cock, 2 ckl. Fred Shellabarger, 5 ckl. G. W. Phillips, Dwight, Ill., 4 ckl. Lauffer Bros., Hampshire, Ill., 5 pen. Rose Comb Barred Rocks—S. B. Wenger, South English, Iowa, 1-2 ckl, 1-2 hen, 1-2 ckl, 1-2 pl.

Silver White Wyandottes—A. & E. Tarbox, Yorkville, Ill., 1-3-4-5 cock, 1-2-3-4 hen, 1-2-3-4-5 ckl, 1-2-3-4 pl, 1-2 old pen, 1-2 young pen. E. B. Banta, Portland, Ind., 2 cock, 3 young pen.

Golden Wyandottes—Chas. D. Love, Waukesha, Wis., 1 cock, 1 hen, 1-2 ckl, 1 pl. J. S. Pennington, Plainfield, Ill., 2-3 cock, 2-3 hen.

White Wyandottes—J. C. Fishel & Son, Hope, Ind., 1-5 cock, 5 hen, 1-3-4 ckl, 1-4-5 pl, 1-2 old pen, 1-2 young pen. A. J. Shannon, Appleton, Wis., 4 cock. Frank E. Hering, South Bend, Ind., 3 cock, 3-4 hen, 3 pl. John B. Greenan, Deckerville, Mich., 2 cock, 2 pl, 1 hen. W. B. Meils, Streator, Ill., 2 hen. Caudalpin Farm, Convent Sta., N. J., 2-5 ckl.

Buff Wyandottes—Chas. Howison, Sandwich, Ill., 5 cock, 3-5 hen, 3 ckl, 4 pl, 1 old pen, 1 young pen. S. A. Howland, Granville, N. Y., 1-2 cock, 1 hen, 5 ckl, 5 pl. W. F. Schultz, Cuyahoga Falls, Ohio, 3-4 cock, 2-4 hen, 1-2 ckl, 1-2-3 pl, 2 old pen, 2-3 young pen. F. L. Waterman & Son, Barrington, Ill., 4 ckl.

Partridge Wyandottes—Sheffield Farms, Glendale, Ohio, 2 cock, 1-3-5 hen, 1-3-5 ckl, 1-2-3 pl, 1-3 old pen, 1-2 young pen. G. S. Culver, M. D., Sandwich, Ill., 1-5 cock, 4 hen, 2 ckl, 5 pl. Paul D. Cahow, Reading, Mich., 4 cock, 4 pl. John D. Bowman, Fulda, Minn., 3 cock, 2 hen, 4 old pen. E. G. Lapham, Elkhart, Ind., 4 ckl. John E. Doubler, Nora, Ill., 2 old pen.

Columbian Wyandottes—J. Walter Garvey, Thayer, Ill., 2-4 cock, 1-5 hen, 3-5 ckl, 1-4 pl, 1 old pen, 2 young pen. Hayhow Bros., Royal Oak, Mich., 3 cock, 1 ckl, 4 young pen. Lone Oak Farm, Streator, Ill., 5 cock, 3 hen, 3 pl. Levi A. Ayers, Gran-

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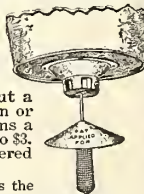
The Collins Oat Sprouter doubles the egg yield, cuts the feed bill 50%, makes hens healthy. Heavy galvanized iron throughout. Pans lift off separately, exact perforations to prevent mold. No dirt, no trouble, simply set beside stove, furnace, or in sunny window. Water top pan. In a few days you will have fine growth of green for your hens. You cannot afford to keep chickens with grain so high without a Collins Oat Sprouter. Even with metal and labor so high we sell you

8 pans, 11x15 inches, Popular Size, for only **\$4.00**
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8 pans, 11x32 inches, Big Breeders, **\$8.00**

Delivery charges paid. West of Mississippi River add 50c; West of Rockies add \$1. "I like the Sprouter fine; it makes the hens sing."—Miss Ada Bird, Ringoes, N. J.

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No more wasting of high priced grain; no lazy, overfat, non-laying hens if you own and use a Collins Labor-Reducing, Time-Saving Exerciser and Feeder. No waste; reduces feed cost; makes for better hens. Increases egg yield; improves fertility.



rat and bird proof; makes for better hens. None better made.

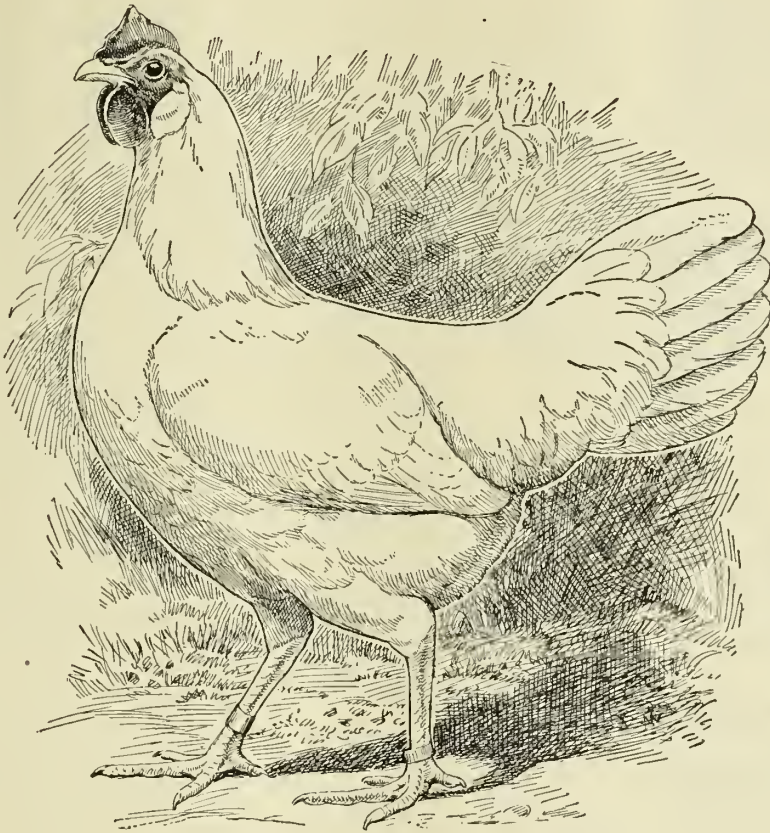
This Helps Win the War and you get more eggs at less cost. Just cut a five-inch hole in the bottom of an old wooden or metal pail (leave the new metal for the Government). Attach the feeder; the cup forms a funnel, and you have for 50c a feeder and exerciser that would ordinarily cost from \$1 to \$3. Strong, well put together, of heavy galvanized iron with steel rod. Only 50c when ordered with Sprouter. Separately, add 10c for parcel post.

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Yes, of course, I have circulars, but don't write for them. I want you to see and use my Sprouter or Exerciser and Feeder. So if interested as either poultryman or agent, order a Sprouter or Exerciser, and Feeder or both, use 10 days, if not the grandest thing you've ever used in the poultry line, return and I will refund money.

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480 Eggs in
2 years

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Yesterlaid prices are very reasonable — Cockerels, \$5.00, Cocks, \$10.00. Eggs—\$3.00 for 13—\$5.00 for 26—\$15.00 for 100—\$140.00 for 1000. Baby chicks 30 cents each.

Valuable literature giving further details of how this wonderful strain of Leghorns has been developed, how it is fed and housed, will gladly be mailed to you free on request.

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Dever Rogers & Son, Oxford, N. Y., 1 ckl, 4 pl. Mrs. W. J. Craig, Bowling Green, Ky., 4-5 ckl.

Golden Campines—Kissel Bros., Hartford, Wis., 1 hen, 3 ckl, 2 young pen. Paul H. Ziemer, 1 ckl, 1-2 pl, 1 young pen.

Silver Spangled Hamburgs—R. E. Nelson, Utica, Neb., 5 cock. Otto Christoph, 2 cock, 4-5 hen, 2-3 ckl, 1-2 pl. Carl Staaek, 3 cock, 2 hen. F. E. Glover, Ord, Neb., 1 cock, 3 hen, 4 ckl, 4 pl. Walter A. Gennrick, Milwaukee, Wis., 4 cock, 1 young pen. Robt. T. Paine, Boston, Mass., 1 hen, 1 ckl, 3 pl. Chas. Penayar, Dakota City, Iowa, 5 pl.

Golden Penciled Hamburgs—Myron Albertstett, Davis, Ill., 1 cock, 1 hen, 2 ckl, 2 pl. Raymond Ziesman, Northfield, Minn., 1 ckl, 1 pl.

White Crested Black Polish—Morton B. Cooper, Bainbridge, N. Y., 1-2-3-4 cock, 1-2-3 hen, 1-2-3-4 ckl, 1-2-3-4 pl, 1-2 old pen.

White Crested White Polish—Theo. Hewes, 1-2 cock, 1-2-3 hen.

Golden Polish—Carl Staaek, 1 cock, 1 pl.

Missouri White Fluffs—Mrs. J. D. Rice, 1 cock, 1 hen, 1 ckl, 1 pl.

Houdans—Carl Staaek, 2 cock, 3 hen. Bert C. Holmes, Muscatine, Ia., 1 cock. Katherine D. McAvooy, Cambridge, N. Y., 1-2-4-5 hen, 1-2 old pen. T. E. Meyers, 1 ckl, 1 pl, 3 old pen. Wm. M. Beadle, Marcellus, Mich., 4 old pen.

Dark Cornish—Geo. Garbish, Waltham, Minn., 2 cock, 4-5 hen, 1 ckl, 1 pl, 1 old pen, 1 young pen. F. J. Zuck, Kirkland, Ill., 1 cock, 2 hen. S. Peabody, Hinsdale, Ill., 5 cock, 3 hen, 2 ckl. W. B. Grinyer, Eleroy, Ill., 4 cock, 3-4 ckl, 4 pl. F. P. Schuyler, Savannah, Ill., 3 cock, 1 hen, 5 ckl, 2 pl.

Black Red Games—Standard—Eugene P. Allanson, Ill., Anita, Iowa, 1 ckl, 1-2 pl.

Pit Games—E. H. Faulkner, Williamsburg, Ky., 1 hen.

Rouen Ducks—Sheffield Farms, 1-3 cock, 1-2 hen, 1-3-5 ckl, 2-3-4 pl, 1 old pen, 1 young pen. Harvey Young, Osco, Ill., 2-4 cock, 3-4-5 hen, 4 ckl. Henry Schehl & Son, Prophetstown, Ill., 2 ckl, 1 pl.

Mallard Ducks—U. R. Lynch, 1 cock, 1 hen, 1 ckl, 1-2 pl.

Indian Runner Ducks—W. O. Ott, Hoopole, Ill., 1 cock, 1 hen, 1 ckl, 1 pl. Wm. Tritsch, Pratt, Kansas, 1 old pen.

Bronze Turkeys—Royal Poultry Farm, 3 cock, 2-5 hen. Mrs. Eli Fowler, Rochelle, Ill., 2 cock, 3 hen, 4 ckl, 3 pl. Rothgeb Bros., 1 cock, 1 hen, 1-3 ckl, 1-4 pl. Edward Gesner, Nora, Ill., 5 cock, 4 hen, 2 ckl. Chas. Fleming, Brook, Ind., 4 cock, 5 ckl, 2-5 pl.

Wild Turkeys—Edw. Gesner, 1 ckl, 1 pl.

White Holland Turkeys—T. C. Cain, 1 cock, 1 hen.

Blue Muscovy Ducks—Frank G. Hasselman, 1-2 cock, 1-2 hen.

Toulouse Geese—W. O. Ott, 1 cock, 1 hen, 4 ckl, 2 pl. Miss Edna Mosier, Ixonia, Wis., 1-2-3 ckl, 1 pl.

B. B. R. Game Bantams—Wm. Albers, Cleveland, Ohio, 4 cock, 1-3 hen, 3-4 ckl, 5 pl. Rosedale Bantam Yards, Cleveland, O., 1 cock, 4 hen. Geo. J. Wagner, Cleveland, O., 5 cock, 5 hen. Mr. and Mrs. Frank Harris, Des Moines, Iowa, 2 cock, 1-2 ckl, 1-2 pl. Perry G. Parker, Chicago, Ill., 3 cock. A. H. Staat, Norwood Park, Ill., 2 hen, 3 pl, 1 pen. Oscar Wilke, 4 pl, 2 pen.

Brown-Red Bantams—P. G. Parker, 1 cock, 1 hen, 1 pl.

Golden Duck Wing Bantams—Ashborne Bantam Yards, Burlington, Iowa, 1 cock, 1-2 hen. Albert Bloese, Chicago, Ill., 1 pl.

Silver Duck Wing Bantams—Rosedale Bantam Yards, 1 cock, 5 hen. Geo. J. Wagner, Cleveland, Ohio, 2 cock, 4 hen. A. C. Williams, 3 cock, 1-2 hen, 1 ckl, 1-2 pl, 1 pen. Smith Bros., Chicago, Ill., 3 hen, 2 ckl.

Birchen Bantams—Rex Bantam Yards, Milwaukee, Wis., 3 cock. Rosedale Bantam Yards, 4 cock, 1-2 ckl. Geo. J. Wagner, 5 cock, 3 hen. Ashborne Bantam Yards, 1 cock, 1-2 hen, 1 pl. P. G. Parker, 2 cock, 4-5 hen, 3 ckl, 2 pl.

Red Pyle Bantams—Ashborne Bantam Yards, 1 cock, 1-3-5 hen, 2 pl. Smith Bros., 2 cock, 3 ckl. Rex Bantam Yards, 4 hen, 2 ckl, 3 pl. Geo. J. Wagner, 2 hen, 1 ckl, 1 pl.

Spangled Old English Bantams—Rosedale Bantam Yards, 1 cock, 1 hen.

Dark Cornish Bantams—Rosedale Bantam Yards, 1 cock, 1 hen.

Golden Sebrights—Ashborne Bantam Yards, 2 cock, 1-2-4-5 hen. Mrs. W. H. Besuden, 4 cock. Alfred Bloese, 1-3 cock, 3 hen, 1-2 ckl, 1 pl.

Silver Sebrights—Donald E. Cors, White-water, Wis., 5 cock, 5 hen. Ashborne Bantam Yards, 1-3-4 cock, 1-2-3 hen, 1 ckl, 1-2-3 pl, 1 pen. Albert Bloese, 2 cock.

R. C. White Bantams—R. P. Krum, Stafford, Kansas, 1 cock, 2 hen, 3 pl. Ashborne Bantam Yards, 2-4 cock, 1-3 hen, 1 ckl, 1 pl. P. G. Parker, 3-5 cock, 4-5 hen, 2 ckl,

2-4 pl. W. F. Weissenburg, Toledo, O., 3 ckl.

R. C. Black Bantams—S. W. Weissenburg, 3 cock, 3 ckl. Ashborne Bantam Yards, 4 cock, 2-5 hen. Wm. H. Rogers, Oxford, N. Y., 1 cock, 4 hen, 4 ckl. Mr. and Mrs. Frank Harris, 2 cock, 1 hen, 1 ckl, 1 pl. E. G. Hines, Oakland, Cal., 5 cock. Rex Bantam Yards, 3 hen. R. P. Krum, 2 ckl.

Light Brahma Bantams—Rex Bantam Yards, 2 cock, 2 hen, 2-3 pl.

Buff Cochon Bantams—Fred Gresh, Zionsville, Ind., 4 cock. Clyde Baughman, Topeka, Kas., 1-2-3 cock, 1-2-4-5 hen, 1 ckl, 3 pl, 1 pen. Albert Maddox, Cleveland, Ohio, 5 cock, 4 ckl, 2 pl. Wm. H. Rogers, 3 hen,

1 pl. Ashborne Bantam Yds., 2-3 ckl, 4-5 pl. **White Cochon Bantams**—Emil Meier, Chicago, Ill., 3 cock, 2 ckl, 5 pl. Geo. Fitterer, Chicago, Ill., 2 cock, 1-2-5 hen, 1-3 ckl, 1-2-3 pl. Ashborne Bantam Yards, 1-4-5 cock, 3-4 hen, 4 pl. A. E. Genung, Horseheads, N. Y., 1 pen.

Black Cochon Bantams—Will F. Caskey, Topeka, Kans., 1-2-3-4 cock, 1-3 hen, 1-2-3 ckl, 1-2-3-4 pl. Ashborne Bantam Yards, 5 cock, 2-4-5 hen, 5 ckl, 5 pl, 2 pen. E. G. Hinds, 4 ckl. Ruben Dixon, Provo, Utah, 1 pen. A. E. Genung, 3 pen.

White Japanese Bantams—Rosedale Bantam Yards, 1 hen, 1 pl.



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Buff Minorcas

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Greatest win ever made in Buff Orpingtona or Buff Minorcas in a National Show, Chicago Coliseum, December 4 to 9, 1917

Buff Orpingtons

1st and 2nd cock; 1st and 2nd hen; 1st, 3rd and 4th cockerel; 2nd and 5th pullet; 1st and 4th old pen; 2nd, 3rd, 4th and 6th young pen; silver cup for best shaped and best colored male; silver cup for best shaped and best colored female; silver cup for best display.

Buff Minorcas

1st cock; 1st, 2nd, 3rd, 4th and 5th hen; 1st, 3rd, 4th and 5th cockerel; 1st, 3rd, 3rd and 4th pullet; 1st and 2nd old pen; 1st and 2nd young pen.

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We recently purchased the entire flock of Buff Orpingtons from the well known Rawnsley-Shields Poultry Farm, Columbus, Ohio, who have made sensational winnings at Madison Square Garden and Chicago Coliseum for years, which, added to our high bred flock, represents one of the greatest, if not the greatest, flock of Buff Orpingtons in America.

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Hens or Pullets, from..... 3.00 up to 25.00

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Exhibition Matings 10.00 per 15; 18.00 per 30
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Write for our detailed price list, which is full of great bargains.

WALHALLA POULTRY FARM

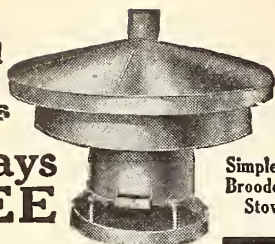
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NOTICE—As we expect to specialize only in two varieties—Buff Orpingtons and Buff Minorcas—we are offering our entire flock of Speckled Sussex and S. C. Black Minorcas for sale, including all prize winners. We have established a very fine flock in both of these varieties, which have been line-bred for years, and we have a very fine line of breeding and exhibition birds in both of these varieties and will sell the very best quality at a most reasonable price. Here is your chance to get real breeders and prize winners at reduced prices. ORDER EARLY before the best have been selected. Early purchasers will get our best values.

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Write today for valuable free brooder book and catalog. It tells how to "increase your profits by decreasing mortality." Tells how to save chicks you have been losing each year through disease and faulty brooding. How to make more money. Also catalog and details of 30 days trial free. No obligations. Write now.

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HOW TO BECOME A SUCCESSFUL BREEDER.

CHAS. A. SIMMONDS,
Camp Point, Ill.

It is the ambition of every fancier to become a successful breeder, to be able to so mate his birds each year that the progeny will be a little better than the parent stock. While it is a pleasure to win on a bird purchased to show, the pleasure of winning with a bird one has owned and cared for from the shell to the show room is much greater, especially if one also owned and mated the bird's parents.

The fancier who cannot after several years of effort become a successful breeder is very apt to lose his interest in the fancy entirely. For this reason the successful breeder should endeavor to help his customers in every way possible to succeed. If your customer is successful in breeding the birds you sell him he will be very likely to remain your permanent customer, buying every year a few high-class birds or eggs. If he fails with your strain he can hardly be expected to remain your customer even though he remains in the business.

The breeder who mates his pens the first of January can hatch chicks any time after the first week in February, which is early enough to grow State Fair winners, if the chicks have the proper care. In fact the pullets hatched early in February will quite likely be gone by for showing at even the earliest fairs. Still it is a good plan to hatch a large number in February, as the cockerels make fine show birds and the pullets excellent breeders.

Each different breed and each strain of the breed has its own peculiar breeding tendencies, which one should understand to mate for best results. There are other rules, however, which can be followed successfully in breeding any variety.

In selecting the birds for a mating it is very important to consider carefully the breeding that is back of them. Assuming that a fancier would only set eggs from his very best stock and thus have good blood back of his entire flock, the question remains as to how best to blend the different blood lines to produce the best progeny. In this there is no rule that will give best results in all cases. Generally it is best to mate birds of the same strain, but not closely related; frequently it is best to inbreed and in exceptional cases it may be necessary to use a bird of a foreign strain.

Upon the question of inbreeding, many hold that if accompanied by proper selection inbreeding can be practiced continuously without affecting the size or vigor of the strain. Others claim that inbreeding always results in loss of size, vigor and fertility. The fact is the results depend not so much upon the system of breeding (whether inbreeding, line-breeding or out-breeding) as it does upon the strain and the individuals bred.

With a newly founded breed or strain after several generations of crossing or out-breeding has been practiced it is possible to inbreed with good results to an extent that would almost result in the extinction of an old strain. Close inbreeding is seldom necessary except to concentrate and perpetuate the blood of some exceptionally fine individual or one extra good in some point in which the balance of the strain is weak, until its excellence can be transmitted to and per-

manently fixed in the entire strain.

The result of out-breeding or crossing different strains is generally to bring out the characters of the more distant rather than the immediate ancestors. After crossing breeds or widely different strains of the same breed, it is always necessary to inbreed for several generations following to produce high-class birds in large number or with much uniformity. The crossing of different lines of blood having a common ancestry and having been bred along similar lines is not fraught with the same danger. Such crossing secures "new blood," but not "foreign blood," and is largely practiced by the most successful breeders who either carry several blood lines themselves or frequently buy a bird from some breeder handling the same strain and breeding along similar lines.

If one has a flock of uniformly high-class birds he can select males and females that are not closely related and mate them together with reference to their good points and defects, so as to produce in a majority of the progeny the good points possessed by both ancestors in common, and in a small number of the progeny the good points possessed by either sire or dam alone. Of course much depends upon whether the characters in question are dominant or recessive and upon whether the birds bred are pure in their characters or not. But where a certain desirable character is possessed by only one bird in the strain, or where one bird greatly excels the balance of the strain it is best to inbreed this bird to concentrate his or her tendency towards producing the desired point that it may be permanently fixed as a dominant character in the strain. Inbreeding for this purpose would of course consist first of all in the mating of mother to son or father to daughter, thus producing progeny three-fourths the blood of the one ancestor. Whenever a mating of this kind is made one should be very careful not to mate together birds possessing the same defects or lacking in vigor as the bad as well as the good qualities are intensified by inbreeding.

To become a successful breeder one needs to study his fowls continuously. I generally know about how I will mate my pens long before the matings are put together, as I have been studying how they would mate best since they were a few months old. I thus avoid mating any birds that are slow to mature and can give preference to any that I know to have been the most rapid growers in their brood. A bird that was weak and slow to mature will sometimes develop into an excellent bird at maturity, but is sure to be lacking in vigor and to transmit its slow-growing tendencies upon its progeny.

When making the final selection of breeders it is necessary to pay close attention to the individual merits of the birds. No bird that is seriously defective in body shape or lacking in vitality should be permitted to enter the breeding pen, no matter how fine is its breeding.

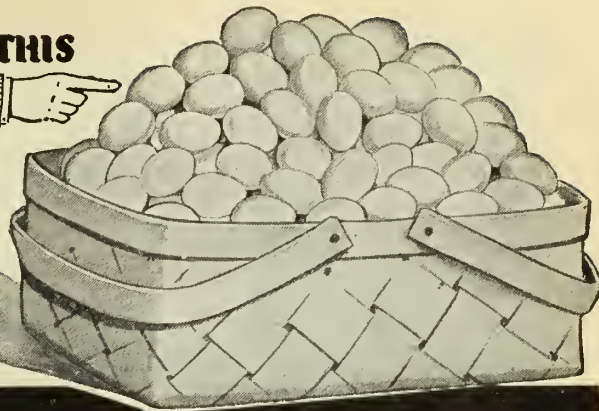
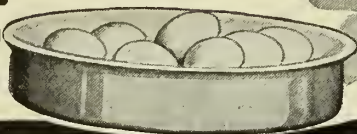
In selecting the male to head the pen shape should receive first consideration. Not only should the male show a profile having the outlines demanded by the Standard, but he should also exhibit those points which always accompany the most vigorous constitutions, such as a broad back, full breast, legs wide apart at the hock joints, well furnished saddle and tail and a rather large, broad

WHICH

THIS or THIS



Do You WANT



Why You Don't Get Eggs in the Winter

The one great mistake most poultry raisers make is in the idea that scratch feeds make eggs, and this accounts for their failure to get eggs in the winter time.

Scratch feeds do not make hens lay. Just so long as you make scratch feed the bulk of your hens' ration, you will fail to get eggs. Scratch feed is for the hen's bodily maintenance — to make her exercise, *scratch*—to satisfy her while

on the roost and *not to make eggs*. The feed that will make hens lay abundantly must be a soft feed, finely ground and correctly balanced—a feed composed of materials like hens pick up in the Spring — when their egg production is highest.

FUL-O-PEP DRY MASH

is that kind of a feed—compounded along nature's lines—made solely to make hens lay. It is a combination of green foods, animal foods and several other valuable ingredients which come as near nature's egg making materials as it is possible for expert feed knowledge, science and experience to produce.

To get more eggs feed **FUL-O-PEP DRY MASH**—all your hens will eat—keep it where they can get it **ALL** the time and feed **FUL-O-PEP SCRATCH FEED** about an hour before they go to roost—then, you'll get **EGGS**—and lots of them. *We guarantee it.*

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Fill out and mail the coupon below and we will send you our latest valuable poultry book and Poultry Calendar. This book is full of valuable information for poultry raisers—interesting hints and suggestions for making money from poultry — tells how to make backyard poultry raising pay big. Send your name and address and get a copy **FREE**.

The Quaker Oats Co.
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Kindly send me your 1918 FUL-O-PEP Poultry Calendar.

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Prove Their Class

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**New York
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1st and 4th Cockerel
1st Hen
2d and 3d Pen
5th Cock

Boston

1st and 5th Cock
1st and 2d Hen
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2d, 3d and 6th Pullet
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Can furnish you a show bird or a fine breeder, trio or pen; write

J. W. ANDREWS Box A DIGHTON, MASS.

JENSEN'S

LAYING LEGHORNS

TRAPNESTED FOR SEVEN YEARS

THEY WIN. At Waukegan, Ill., Nov. 30—Dec. 4, 1917, 1 won 1-4 cock; 1-4 pen; 2-3-4 hen; 2-3 pullet.

THEY LAY. In my pens are hens with records as high as 290. Every hen in my five best pens has a record of 200 or more.

Eggs—Baby Chicks

from this exceptional stock. Safe delivery guaranteed, and I aim to give satisfaction to everybody. Write for prices.

CARL J. JENSEN : North Ave., WAUKEGAN, ILL.

ESTABLISHED 1912

Don't Feed Green Food!

Do away with the bother by using

Succulenta Tablets

They are better, cheaper and more relished by all fowl. Simply dissolve one tablet in one quart drinking water for fowl. A full egg basket is assured.

Can of 100 large tablets by mail, \$0.50
" " 200 " " " " 1.00
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Write for particulars, giving your dealer's name, to the
SUCCULENTA CO., P. O. Box 405-1, Newark, N. J.

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White Plymouth Rocks

have been big winners at Boston the past 3 years. Send for free circular.

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S. C. Black Minorcas Giant B. Turkeys

Winners Chicago Coliseum, Dec. 1916

And the country's largest shows for the past ten years. Birds of quality on approval always.

ROYAL POULTRY FARM, Box 500, OSSIAN, IND.

CHARCOAL FOR POULTRY

Extra fine, fine, medium and coarse \$2.00 per hundred at Ironton. Cash with order.

John Silliman - Ironton, Ohio

masculine head. Next to shape consider color and head points and last of all size. In size a male of Standard weight or over is to be preferred, but if of a large line, but a little small because late hatched, he should not be rejected. The female has much more influence on the size of the progeny than the male.

Always select a male that is active, hunting food for and ready to protect his mates against any intruder. The best breeding males will often go hungry as long as their mates can be induced to eat the food in sight. Unless such birds eat enough grain from the feeders when their mates are in the yards, they should be given a feed away from the hens once a day.

In selecting the females, size and vigor are the most important. In the larger varieties it is impossible to get the females too large for breeding, provided they are not too fat and have the true breed type. It has often been said that the male has more influence upon the progeny than the males. To some extent at least this can be explained by the fact that the male is frequently more closely line-bred than the females and is therefore a more prepotent breeder in general. I find it pays to have both sides of the mating of the highest quality possible as that is the only way to get uniformly high-class progeny. The most successful breeders are as careful in selecting each female that goes into a mating as the male that heads it.

To become a successful breeder one must keep accurate pedigrees of his birds. This enables him to mate his birds with reference to their blood lines, prepotency and individual breeding tendencies, besides affording an opportunity to study out the application of the various laws of heredity to his particular breed and strain.

The best method is to trap-nest and thus keep accurate individual pedigrees of all chicks raised from the best matings. When this is not convenient the pens must be limited to as many females of the same blood as match in individual and hereditary qualities. A cockerel or young cock should not be mated with less than eight or ten females, but the pen may be divided into two or three smaller pens changing the male once a day.

The trouble with many beginners is they fail to give the birds proper attention after mating and thus fail to secure as high a percentage of fertility in the eggs, or as much vigor in the chicks as there should be to raise many high class birds.

In feeding the breeding stock I recommend automatic feeders. If it is not set too loose the birds will have to work for all the grain they get. A good mixture for automatic feeding is equal parts by measure, cracked corn, wheat, oats and barley. I have used the mixture without the barley, but find it a valuable addition, as it is very rich in egg making material and the birds relish it. The animal food, roughage and condiments that the fowls require are most readily supplied by feeding a mash. The following formula has given me fine results in feeding several English and American varieties.

Six measures each, wheat, bran and corn meal, three measures each ground oats, alfalfa meal, and beef scraps, one measure oil meal and one measure of two-thirds chick size charcoal and one-third salt. Good results can be obtained by feeding either a damp mash once a

day or by feeding the mash dry from hoppers kept open all day. I use a combination of both systems as the damp mash affords a convenient way of feeding the cooked vegetables and table scraps I like to feed as a change, while the dry mash is sufficient on Sunday, shipping days or any time it is not convenient to feed the wet mash. I like to feed a damp mash at least twice a week.

Fresh, green food is a very important part of the ration for breeding fowls. In winter when they cannot get fresh grass in the yards they should be given a liberal feed once a day. Sprouted oats, cabbage, onions, sweet apples or raw potatoes, make good green food.

Good foundation stock, careful study of pedigrees and individual birds when mating, and most of all an enthusiasm and love for the work that is strong in summer as well as during the show season, with proper care of the chicks from the shell to the show-room, will not fail to bring success.

Shall We Raise More Poultry?

It is probably safe to say that poultry raisers generally are in full sympathy with the U. S. Government official demand that the poultry industry be enlarged and pushed with greater energy. This urgent request and the pledge of the American Poultry Association to produce one million pounds more poultry in 1917 than was produced in 1916, is sure to bring results—not only so far as the 7,500 members of the association are concerned, but also in starting thousands of new poultry yards, large and small. "There is a demand—a big demand—for all we can produce, no matter what the amount," says Bulletin No. 1 of the association.

The comparatively little capital required to start, the absence of hard labor, and the promise of quick, adequate returns under reasonable care in management, are features which attract many to the poultry business.

Perhaps the biggest problem which confronts poultry raisers is the high price of feed. This may not be counterbalanced by the higher market prices of poultry products, if the increased supply is at all adequate to the demand.

But this problem can be met, in large measure, by more scientific feeding—by care in the selection of feeds which can be relied upon to produce results. Here is where the manufacturers of the standard mixed feeds come to the rescue. True, as some feeders have complained, some of the mixed feeds on the market are lacking in nutritive value—especially in protein, which is one of the chief requisites to poultry growth and egg production. But there are some really excellent ready mixed rations to be had and poultrymen everywhere are coming to recognize the value of these ready-mixed feeds that are prepared in a scientific manner.

Several of the feed manufacturers have their own experimental poultry yards and stock farms, where all their products are constantly undergoing test feeds, under the direction of experts, to make sure that they produce in practice all the results claimed for them in theory.

500 BUTTERCUPS

from Hiddenhurst Strain. Young stock and breeders at \$8.50, \$5.00, \$3.00, \$2.00.
EDWARD HIDDEN SHARON STATION, N. Y.

GET READY FOR BIG BUSINESS.

Indications Are That Season of 1918 Will be the Most Profitable One Poultrymen Have Experienced for Years.—Seasonable Things Which Demand Attention.—Good Start Made in First Month of American Egg-Laying Contest.

By T. E. QUISENBERRY,
Leavenworth, Kansas.

My advice is to get ready for a big poultry business in the spring of 1918. With corn, corn meal, dairy chops and other poultry feed on the decline and with eggs and poultry prices advancing to a reasonable figure, compared to the cost of production, I feel certain that the time is at hand when poultry and eggs are going to be in demand for hatching, breeding and market purposes, and at profitable prices. At no time in the past few years has it seemed to me that poultrymen would go into the season with a greater assurance of success and a reasonable profit than just now.

The Government is sending out a large force of men to help educate the public and to encourage production. It insists upon every back yard and every general farm being used to the limit for this purpose. The U. S. De-

partment of Agriculture says that no kind of live stock can be produced so rapidly or economically as poultry and eggs. The Food Administrators say that poultry feeds will be from 25 per cent to 40 per cent lower than they were last fall. These facts should interest and encourage every one interested in any branch of the industry.

Begin now to get ready for a good season's business. Don't wait until the hatching season is on, but get out your old incubator and clean it up. See that the parts are all there, that the tank don't leak and that the burner and everything is clean and in first class condition. If you are going to need a new incubator you may not be able to get one if you wait until the last minute. There is going to be a big demand, so place your order now.

Take a final look at the breeding birds. See that they are all in good health and lay eggs with firm shells. Cull out those which lay small sized and off-colored eggs. Every poultryman should have his breeders all selected and mated by January first. Don't breed from the whole flock, if you have a large number from which to select, but pick out your choicest females and mate with your choicest males. That is the only way to make real progress.

See that the water in the drinking pan does not remain frozen. Plenty of water is just as important in producing winter eggs as is the right kind of feed.

If you are going to need a male to head your pen or will need eggs for hatching you had better place your order now. The demand is going to far exceed the supply. The earlier you place your order the better selection you will get.

THE BREEDERS' CONTEST

In this contest there are 17 varieties of poultry represented, each variety being represented by an equal number of pens. The birds are of high quality and Standard bred and entered by the best breeders in America who are trying to combine utility and beauty. They have made a somewhat better start than last year. The five leading pens for November are as follows:

Pen No.	Eggs
43—Illinois, White Wyandottes	99
9—Ohio, S. C. Buff Leghorns.....	86
48—Ohio, Light Sussex	74
45—Connecticut, White Wyandottes	59
23—Indiana, Barred Rocks	59

Six pullets in the contest laid more than one dollar's worth of eggs in November. If all poultrymen would see that their birds were mature and ready to lay by November each year their success would be more nearly assured.

The best individual records are as follows:

	Eggs
Illinois, White Wyandotte, No. 435.....	23
South Dakota, Silver Wyandotte, No. 385..	22
Indiana, Barred Plymouth Rocks, No. 233..	20
Indiana, Barred Plymouth Rocks, No. 235..	20
Illinois, Silver Wyandotte, No. 395.....	20
Illinois, White Wyandotte, No. 434.....	20

THE LEGHORN CONTEST

In their contest the birds are all housed in one large fool-proof laying house. They are handled just as a commercial flock would be handled and an accurate record is kept of the sort of feed, labor, etc., and the receipts from eggs. Every bird has access to the entire house and all are under exactly the same conditions. At the end of the year we will be able to tell you just how much profit can be expected from 500 Leghorn pullets kept in such a

Order Your Single Comb White Leghorn DAY-OLD CHICKS NOW!

There is no other farm in the Eastern States as well equipped to fill your order for any quantity of chicks of the right kind and at the right price as the Lord Farms. For years and years we have been furnishing larger quantities of pure American bred S. C. W. Leghorn chicks than any other breeder. We have again increased our stock one-third and are better prepared than ever to furnish the trade with the highest class utility Leghorns. For the past five years, before the seasons were over, we have been obliged to turn down two orders out of every three we have received, so don't delay another day in getting your order placed for February, March and April deliveries.

The most important thing for you to decide this season is where to place your order for chicks. Your next year's profit depends on buying from the RIGHT FARM.

Our object for years has been to standardize the baby chicken business and put out a uniform quality of goods. The profit in the poultry business is made from uniform good quality of stock rather than from high individual records. No other farm in America, we believe, has delivered, one order after another, such a high standard of Leghorn chicks as the Lord Farms. There is no expense spared in securing high class breeders. Trapnesting is not the panacea for all the poultryman's troubles in breeding—it is only one necessary part of the business. We probably trap-nested more birds than any other breeder in the eastern or middle states last year, but this is only one part of securing good breeders. Stamina and vitality are just as important as high records, in fact more so to the buyers of baby chicks.

Our stock is of good size, and lay good sized eggs that bring top market prices. Chicks from our plant have always been easy to raise. A 1,000-page catalog would be too small for the testimonials we have received corroborating this statement.

A poor man cannot afford to take chances; a rich man knows better than to take chances. Place your order with a reliable, responsible poultry farm. Write at once for prices and literature.

LORD FARMS, Inc.
Box 240-M Methuen, Mass.

Trap-Nested American Bred S. C. W. Leghorn Cockerels

We are in better shape than ever before to furnish the trade with high class 200-egg or better bred cockerels. These birds are all Standard weight or over, of good type and color, with several generations of 200-egg or better blood back of them on both sides of their breeding. No one now-a-days can afford to breed from chance matings when for a very few dollars they can secure such stock as we now offer.

A \$5.00 Bill

will buy a good, vigorous, white, early hatched, fully developed cockerel, Standard weight or over, that is positively bred from a hen that has laid from 200 to 225 eggs, and on the male side from a cock bred from a hen of still higher egg record.

\$10.00 will buy a cockerel bred from a hen with a record of 225 to 265 eggs, and on the male side with ancestry tracing back to 288 eggs.

A few of the very choicest males we have bred this year that have both the highest records and show qualities, only \$15.00.

\$5.00 cockerels are just the kind for utility breeding. They will improve the looks and laying qualities of your future chicks, and by breeding from this kind of birds every year you can avoid the big expense of trapnesting.

10% discount in lots of six or more
15% discount in lots of twelve or more
20% discount in lots of twenty-four or more

Now is the time to get your birds mated up. Remember that all our stock is sold subject to approval; your money back every time if not satisfied.

LORD FARMS, Inc.

Box 240-M Methuen, Mass.



FIRST PRIZE PEN ADULT S. WHITE LEGHORNS BOSTON SHOW JAN. 1917. BRED AND OWNED BY OWEN FARMS VINEYARD HAVEN MASS.

house and fed upon feeds at prevailing prices.

These birds come from thirty-one states and Canada, and some were imported from England and Australia, but entered by parties in this country. The five highest pens were as follows, each pen consisting of five pullets:

Pen No.	Eggs
67—Hollywood Farm, Hollywood, Wash.	88
70—Washington	81
110—Pennsylvania	86
66—Dr. R. Schmidt, Hannibal, Mo.	63
107—Missouri	57

Many of these birds were hatched too early, were laying some time before being sent here and are now in full molt. Several pullets in this contest laid 20 eggs or more during the month. They are as follows:

Pullet No.	Eggs
662—Dr. R. Schmidt, Hannibal, Mo.	24
1045—Illinois	22
751—Kansas	23
672—Hollywood Farm, Hollywood, Wash.	22
1246—Wisconsin	20
1105—Pennsylvania	20
1024—Pennsylvania	20
705—Washington	20
644—New Jersey	20
674—Hollywood Farm, Hollywood, Wash.	20

THE YEARLING HEN CONTEST

We also are trying out the yearling hens here for the first time. Most of these are held over from the previous contest. We have 24 pens being tested for their second year. This makes about 1,000 birds in all engaged in our present competition. The hens have been molting and are just beginning to lay. The five best pens for the month are as follows:

Pen No.	Eggs
1—White Plymouth Rocks, Illinois	36
43—R. I. Whites, Texas	35
37—White Wyandottes, Arkansas	34
10—Silver Wyandottes, South Dakota	34
45—R. I. Whites, New Jersey	32

The best individual hen for the month was a Silver Wyandotte from South Dakota, which laid 19 eggs.

Seventh Annual International Egg-Laying Contest.

The seventh annual egg-laying contest at Storrs was officially started on the morning of November 1st, when the first egg was laid by White Rock pullet No. 153 from Belmont, Mass. As in the previous competitions there are 100 pens of 10 birds each. These 1,000 hens are distributed geographically as follows: Connecticut, 270; Massachusetts, 170; New York, 150; New Jersey, 100; New Hampshire, 70; Pennsylvania, 60; Rhode Island, 40; Canada and England, 30 each; Oregon, 20; and 10 each from Vermont, Maryland, Ohio, Illinois, Missouri and Washington. Classified by breeds there are 430 White Leghorns, 170 Rhode Island Reds, 130 Barred Rocks, 100 White Wyandottes, 60 Buff Wyandottes, 40 White Rocks, 20 Blue Andalusians and 10 each of Buff Rocks, Buttercups, Russian Orloffs and White Orpingtons.

The yield for November for all pens was 5,179 eggs. Altho this is some 400 less than for November of last year, the fact is not believed by the management to be of any particular significance, inasmuch as the general appearance and condition of the birds seem to be excellent.

This is not only the opinion of those at the college immediately in charge of the contest, but it expresses the opinion of Judge W. H. Card, Manchester, Conn., and Dr. N. W. Sanborn, Holden, Mass., who were engaged to go to Storrs at

the time of the opening in order to make sure that the new competition got the best possible start. Cook & Porter's Buff Wyandottes from East Hampton, Mass., have been awarded the blue ribbon or first prize for the first month with a production of 153 eggs. A pen of White Leghorns entered by J. Frank Dubois of East Lynn, Mass., won the second prize ribbon for the month with a yield of 145 eggs. The Agricultural College pen of "Oregons" from Corvallis, Orc., the third prize for the month by laying 140 eggs.

The nine leading individuals to date are as follows:

Breed	No. Eggs
R. I. Red, No. 352, Massachusetts	25
R. I. Red, No. 424, Massachusetts	25
Barred Rock, No. 112, New York	24
White Wyandotte, No. 195, Rhode Island	24
R. I. Red, No. 429, Massachusetts	24
R. I. Red, No. 483, Massachusetts	23
White Leghorn, No. 701, England	23
R. I. Red, No. 421, Massachusetts	22
R. I. Red, No. 485, Massachusetts	22

In view of unprecedented grain prices, government regulations regarding the use of wheat, and the uncertainties of transportation, the management of the contest has been obliged to modify the rations from time to time. The feed formulas now in effect are those recently adopted in conference by representatives from the Agricultural Colleges of New York, New Jersey, Massachusetts and Connecticut, and are as follows:

Scratch Grain.	
250 lbs.	Cracked Corn.
100 lbs.	Barley.
100 lbs.	Heavy Oats.
50 lbs.	Feed Wheat.
Dry Mash.	
100 lbs.	Wheat Bran.
100 lbs.	Standard Middlings.
100 lbs.	Hominy or Corn Meal.
100 lbs.	Gluten Feed
100 lbs.	Ground or Crushed Oats.
100 lbs.	Beef Scrap.

These rations were designed to particularly meet eastern conditions. The scratch feed is composed of the four chief grains that are available for poultry. It should, however, be distinctly understood that the first three grains in the ration can and ought to be varied in amounts according to local conditions and prevailing prices. Not only this but a little of some other grain, especially home grown grains, might at times well be added. No mention is made of wheat because it is taken for granted that all poultrymen are today conforming with the government's request that no scratch mixture contain more than ten per cent of wheat.

The subjoined table shows the average grain and mash consumption in each pen of the four principal breeds, the number of eggs and also the average for all pens.

	Grain	Mash	Eggs
Plymouth Rocks	18.2	52.1	44
Wyandottes	19.2	54.4	51
Rhode Island Reds	20.1	54.3	32
Leghorns	17.9	44.1	65
All 1000	18.6	49.0	52



First Pullet, Chicago Coliseum

You STILL have a chance to obtain some of Halbach's Supreme White Plymouth Rocks

Altho we have made tremendous sales last month, we can offer a fine lot of birds just coming into pink of condition. They have such extraordinary quality that we do not hesitate to sell them with the strongest guarantee you could ask for. They are, in fact, so good, and the price we ask for them so reasonable, that we know you will be delighted with the value received. Remember that no strain of White Plymouth Rocks but our own ever won the grand championship three years in succession at the Chicago Coliseum Show. Isn't this sufficient proof that we have the best?

They Will Win for You

as well as they do for us. Hundreds of fanciers thruout the country are unanimous in their praise about the quality of our White Rocks. "Your strain is the best" is the popular verdict of our customers. Their show record and ours proves that Halbach's Strain of White Rocks is the greatest first prize winning strain ever produced.

IMPROVE YOUR FLOCK WITH ONE OR MORE OF OUR BIRDS

We have bred White Plymouth Rocks for years with but one object in view: to produce the best. We have succeeded and now offer the result of our skill to you. Our birds have true Standard type and color requirements. Winter egg production is one of their strong breeding factors and commands them for this purpose. Halbach's White Rocks reproduce their qualities in their offspring in a surprising degree.

SEND FOR OUR CATALOG IT TELLS ALL ABOUT OUR STOCK, FARM, FEEDING AND HOUSING.

It is a veritable textbook on the breed and will enable you to make a success with White Rocks. It is well worth the 20 cents we ask for it. We guarantee satisfaction or money back. Write us today for full information; we can furnish your wants at a most reasonable price.

H. W. Halbach & Sons R. F. D. 1 Waterford, Wis.

TOLMAN FRESH-AIR STRAIN White Plymouth Rocks

Eggs for hatching the broiler and soft roaster kind. Write for prices.

JOSEPH TOLMAN,

R. F. D. No. 1, Dept. H, ROCKLAND, MASS.

VINELAND CONTEST WINNINGS.

The First Year's Performance of the Birds at the Vineland International Egg Laying and Breeding Contest Has Proven Exceptionally Gratifying

All poultry breeders will be especially interested in a few brief statements covering the more important records and exceptional performances which were made in the Vineland International Egg Laying and Breeding Contests during its first year.

Of particular interest and importance is the pen making the highest score. This was pen 88, Single Comb White Leghorns, bred and owned by J. Percy Van Zandt of Blawenburg, N. J. Mr. Van Zandt's pen took the lead during the first month of the contest, and held it to the finish. This pen laid 2,212 eggs, or an average of 221 eggs per bird, which is a 60.6% production. Truly a wonderful performance. Eight birds in this pen averaged over 200 eggs each, the highest single record in the pen being 264 eggs. Mr. Van Zandt's winning was not due so much to one or two especially productive hens, but rather to a well-balanced pen of individuals, all of which produced remarkably well. Mr. Van Zandt is an extensive breeder of White Leghorns, and has been carefully breeding for a number of years for increased production. He is a graduate of the Short Courses at the New Jersey Agricultural College, and has been applying modern methods in breeding.

The honor of having second high

pen belongs to P. G. Platt of Wallingford, Pa. This pen, number 76, composed of Single Comb White Leghorns, produced during the year 2,173 eggs, and during the last six weeks of the contest gave Mr. Van Zandt's leading pen a very close run for first honors. This second high pen laid an average per cent production during the year of 59.7%. Two hens in Mr. Platt's pen were characterized by extremely long cycles, they having each laid on 46 consecutive days. Mr. Platt is to be congratulated upon the success of his pen, for it is a just reward for many years of faithful and consistent breeding toward increased and more efficient egg production.

The third high pen honors go to pen number 89, owned by Shurts and Voegtlen, of Lebanon, New Jersey, with a production of 2,115 eggs, or an average of over 211 eggs per bird. This pen has produced consistently from the beginning of the contest, and has given the leaders a close fight for honors. This third high pen is composed of consistent producers, as well as Mr. Platt's pen, which won second honors, both contained 7 birds which laid over 200 eggs during the year.

The fourth high pen was won by number 62, a pen of Single Comb White Leghorns owned by Holliston Hill Poultry Farm, Holliston, Mass., with a production of 2,114 eggs, or only one egg behind third place. This pen is of special interest because it contains hen No. 622 which was the second highest hen in the contest, she having laid 290 eggs.

Fifth honors go to number 43, owned by Will Barron of Bartle near

Preston, England. This pen produced 2,053 eggs, and showed wonderful persistency of production throughout the contest.

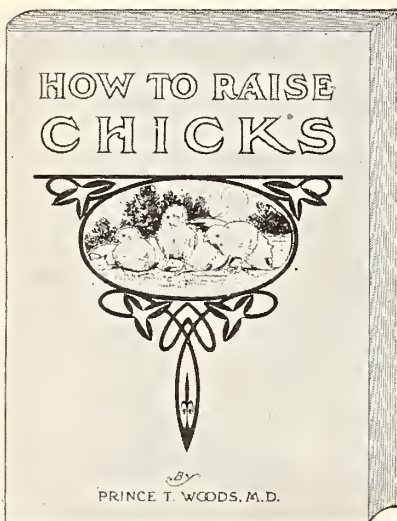
These first five pens, as previously enumerated, are the only ones which laid over 2,000 eggs, and the fact that they are all Single Comb White Leghorns speaks well for the egg producing ability of this popular Mediterranean breed. The high pens in the other varieties represented at the contest are as follows:

The Barred Plymouth Rock honor goes to pen number 1, owned by Garret W. Buck, of Colts Neck, N. J., this pen having produced 1,956 eggs. Mr. Buck's pen is characterized by three individual hens which produced in extreme cycles of production. One bird, hen number 7, having made two exceptionally long runs of 34 and 37 eggs each. Mr. Buck's hen number 9 has the honor of standing fifth individual hen in the contest, with a production of 278 eggs, and his hen number 7 stands sixth in line, with a production of 272 eggs. Mr. Buck is a large potato farmer in Monmouth County. He devotes considerable time and attention to the breeding of his Plymouth Rocks which are exceptionally vigorous and healthy, due to their being raised under free-range farm conditions.

White Plymouth Rock honors go to pen number 10 owned by Holliston Hill Poultry Farm with a production of 1,985 eggs. To this pen should go one of the greatest honors of the entire contest, due to the fact that hen No. 6 laid 301 eggs during the 365 days. This hen is a remarkably fine specimen of the breed, and shows

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Managing Editor American Poultry Journal



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wonderful vitality and vigor. Holliston Hill Poultry Farm should receive special credit for having bred this wonderful pen of White Plymouth Rocks which stands sixth in the contest, and it contains the only hen which laid over 300 eggs. This farm should receive special mention for having bred fourth high pen in the contest, which was Single Comb White Leghorns, and which contained the second highest individual hen in the contest with a production of 290 eggs.

The high honor in Columbian Plymouth Rocks was won by Mr. J. M. Jones of Hornerstown, N. J., the breeder of the famous hen, "Columbian Queen" which laid 284 eggs, in a previous contest. Mr. Jones' pen number 17 laid 1,854 eggs, and he is to be especially congratulated on account of the fact that his hen 179 succeeded in laying 288 eggs. This hen also has the distinction of being third highest hen in the entire contest.

White Wyandotte honors were won by pen 22 owned by Lusscroft Farm, Sussex, N. J., with a production of 1,761 eggs.

Columbian Wyandotte honors were won by pen 27 with a production of 1,513 eggs. This pen is owned by Lake Farm, Slocum, R. I.

Buff Wyandotte honors were won by pen 30 with a production of 1,591 eggs, owned by Clark and Howland, West Paulet, Vt.

Rhode Island Reds succeeded in making a remarkable showing, the high honors going to pen 39 with a production of 1,966 eggs. This pen is owned by Underhill Brothers of Lakewood, N. J. These young men should be given great credit for the excellent performance made by birds of their own breeding.

Single Comb Buff Leghorns were led by pen 95, which laid 1,448 eggs. This pen was owned by H. G. Richardson, of Etra, N. J.; while the Single Comb Black Leghorn honors go to pen 99 with a production of 1,758 eggs. This pen is owned by Fred C. Nixon, Quakertown, N. J.

BREED AVERAGES.

Of especial interest to the various followers of the different breeds of poultry will be the relative production made by the various varieties. The Single Comb Black Leghorns claim the highest honors with an average production per bird of 175 eggs. Mr. Nixon, the owner of pen 99, thereby receives the Grand Sweepstakes Breed Prize of \$150, for the pen making the highest production in the breed having the highest average. The Single Comb White Leghorns come next with an average production per bird of 171.5 eggs, with the highest honors going to Van Zandt's pen number 88, he winning the second Grand Breed Prize of \$100, awarded to the pen making the highest production in the breed having the second highest average. Barred Plymouth Rocks claim third distinction by having averaged 157.9 eggs per bird. Mr. Buck's pen number 1 winning the third Grand Breed Prize for the pen making the greatest production in the breed having the third highest average.

Next in order of performance come the Columbian Plymouth Rocks with an average of 153.4 eggs, followed in

turn by the White Plymouth Rocks with a production of 151.8 eggs, with White Wyandottes giving them a close run with 151.3 eggs. Rhode Island Reds also won the distinction of being close to the other popular American breeds by making an average production of 150.5 eggs per bird. The Columbian Wyandottes follow with an average production of 141.6 eggs, with Single Comb Buff Leghorns averaging 133 eggs per bird, and the Buff Wyandottes 125.6 eggs per bird.

SUMMARY OF THE ENTIRE CONTEST.

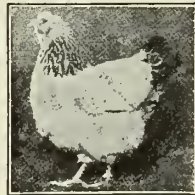
The first year of the Vineland International Egg Laying and Breeding Contest closed on October 31st with a production of 161,875 eggs, or an average production for the year of 161.9 eggs per bird, which is a production of 44.4%. The Black and White Leghorns were the only variety to exceed the average production of the contest, the Black Leghorns making 48% and the White Leghorns making 46.9% for the year.

What is of still greater interest is the fact that the Leghorn breed has the distinction of leading in percent of production during nine months of the year, namely: November, January, February, March, April, May, June,

July and August. This distinction in December went to the White Wyandottes with the Black and White Leghorns following in second and third place. In September the Plymouth Rocks, and in October the Columbian Wyandottes led in percent production.

The Vineland International Egg Laying and Breeding Contest is operated along entirely different lines, and with broader objects in view than any previous contest. The yearling hens which have just completed their first year's performance will be kept right on at the contest during their second year, and trap nested the same as for the pullet year. A weekly and monthly report of the performance of these two-year-old birds will be issued the same as for the pullet production. Males will be mated with each pen during the coming spring and eggs will be hatched and the progeny carefully reared during the coming summer. On November 1st next, ten daughters from each of the 100 pens will replace their parents, and will be trap-nested and tested during their pullet year, which will complete the third year of the contest.

The contest is located at Vineland, New Jersey, in the center of one of the most intensely egg producing



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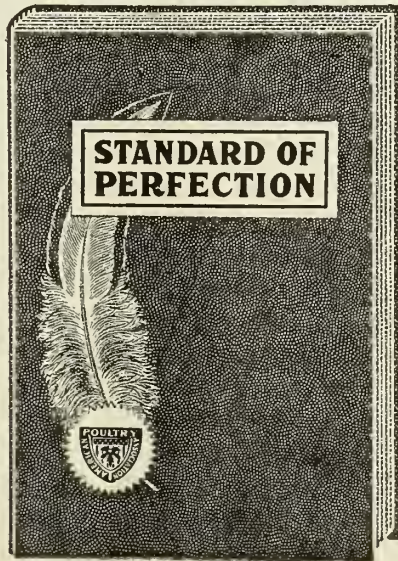
- where they won
- | | |
|----------------------|------------------------|
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communities in the world, and under ideal climatic and soil conditions. The contest is open to visitors at all times, and a visit offers poultrymen not only an opportunity to study the contest methods, but to visit poultrymen in the Vineland District as well. The coming spring months will be an especially appropriate time to study the contest, for in addition to the one hundred laying pens containing the yearling hens, there will be in the neighborhood of 8,000 young stock being reared on the contest grounds. All records of the contest are available at a nominal subscription price. For all information and details address Prof. H. R. Lewis, Supervisor, New Brunswick, New Jersey.

BUYING A FARM FOR POULTRY WORK.

By PLUMMER McCULLOUGH.

BUY OR RENT—WHICH?

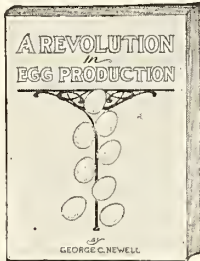
The season of year will soon be here again—in fact is perhaps here already—when people will be thinking of buying a farm for their future home. Many people who have been raised and brought up on a farm still do not own a farm of their own and others who have been raised on a farm have gone to the city to make their fortune and some of them are getting tired of city life and want to get back on a farm where they can be their own boss—where they can keep

a few cows, pigs, and last but not least where they can keep poultry and raise chickens. Not only are the country-bred people wanting to get out into the country to raise poultry but many people who have been raised in the city are getting the "back to the land" fever and are wanting to buy farms, and in many cases at least these people plan to go into the poultry "business." Just what branch of the poultry business they expect to go into I don't know and neither do they or at least the majority of them do not. The most of them know nothing about poultry at all and do not know how to care for even a few fowls successfully. Nearly all of this class of people whom I have come in contact with are wanting to buy a farm. Now just whether a person is doing a wise thing by putting his life's savings into a farm or not, when he knows nothing about farming is in my opinion very doubtful. The city man who feels he *must* go out on a farm and try his hand at the poultry business especially if he has never had any former experience in farming or raising poultry, would in my opinion be better off if he would rent a farm for a year or two before he thought of buying. In fact I would not even do this without trying my hand at caring for a few fowls on a town lot to be sure I liked the business and could be successful in keeping a few fowls. In fact I think the best way for anyone to go into the poultry business is to build up gradually and not jump into the swim too deep at first. It is much safer to feel your way slowly, which has been proven time and time again. For this reason I believe that for the city man who has had no farm experience it would be better to rent a farm for a year or two first, and if he did not like farm life he could then go back to the city or to his former occupation which is not so easily done if a farm is bought. Many times the city man pays too much for a farm in the first place and then if he gets sick of it and wants to get rid of it he will have to either lose a lot of money on it or else have it on his hands. If he rents a year or two first he can then have a little better idea of farm values and many other things that go with farming and poultry keeping. To the man who has lived on a farm for several years and wishes now to buy a farm we will have to give different advice of course. If a person really intends to live on a farm most of his life and expects to make poultry keeping his main occupation I believe that the best thing he can do is to buy a farm—providing he has anything to buy with. I don't believe it is wise to buy a farm and go in debt for the whole thing or nearly so. As a rule it is best to have enough money to make a good sized payment and if it is possible to make a cash payment so much the better. It is true that a mortgage is not such an awful thing—but at the same time it is more pleasant to be free from debt or nearly so.

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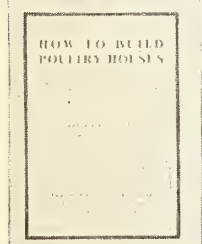
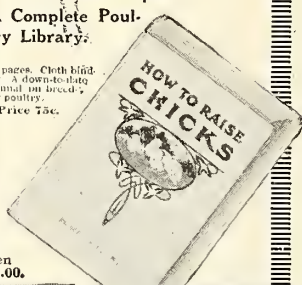
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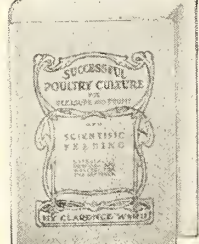
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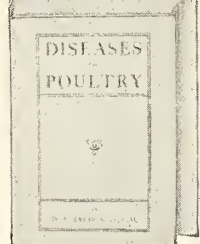
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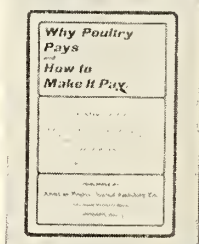
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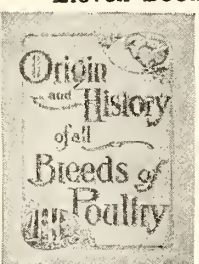


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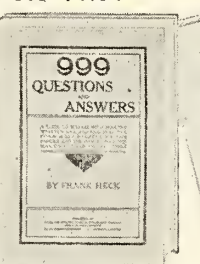
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THE RIGHT SIZED FARM TO BUY.

Now having fully decided to buy a farm it will be well to give a little attention as to what kind of a farm will be needed for your poultry work. Many people get the idea that any old kind of a farm will do for turning into a poultry farm but such is not the case. As far as the size of the farm is concerned it will depend all together on who is wanting the farm and what he is wanting it for, as to what size he

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will want. If a man has a good sized family with some growing boys coming on to give him help, he can use a moderately large farm, but the man who has no help and expects to do all the work himself will not want so large a farm. However, I do not think that it pays to buy too small a farm. It is true that the ten, fifteen and twenty-acre farm will accommodate a lot of layers—perhaps as many or more than one man can care for, but I would prefer a farm of forty to fifty acres—or even sixty acres would not be out of the way. I would want enough land to keep a few cows—a team and also enough to raise at least a part of my grain feed for my fowls. True it is that you can buy your feed and many plants are doing so successfully, but it is mighty handy to have a corn crib of your own to go to when shelled corn is selling at \$1.25 per bushel, wheat at \$1.75, buckwheat at nearly \$1.25 and other feed correspondingly high. When a man has the feed raised on his own farm he will not feel the high cost of it and he is not nearly so liable to “skimp” in order to save feed bills—as he is when he has to go down in his pocket for every bite his fowls eat.

While the feed that you raise is worth money it does not cost you near so much as a rule in dollars and cents as the feed you have to buy.

The writer has been through the mill and if I was buying a farm again I would buy one large enough to raise as much of my grain feed as possible, and in order to do this he will need from forty to sixty acres according to the fertility of the land, etc.—I believe that it will pay as a rule to buy a good farm—that is a farm in a good state of

cultivation and a farm that can and will produce good crops if given the chance. This is especially true if a person goes in debt for a part of the farm, for if a person buys a farm that is badly run out and has to make a living, try to build up the farm, improve the buildings, and pay off a mortgage at the same time he has a real job on his hands I assure you, for I know this from experience. If a person can pay cash down for a farm he can sometimes buy a farm that is run down a little and by a little careful work and fixing up the buildings such a farm can often be purchased for much less money than a farm in good condition, but unless a person has the capital to pay cash for such a farm he will find it an uphill job to pay for a farm and try to build it up at the same time and I believe greater progress can be made by getting a farm that is in tip-top shape to start with.

HOW MANY IMPROVEMENTS TO BUY?

Well, the average person will not want to buy a farm with elaborate buildings. He will want a comfortable dwelling house—one in a good state of repair or one that can be put in good shape without much expense. He will also want a good comfortable barn with which to stable his stock and the necessary outbuildings. On the average farm you cannot expect much in the way of poultry buildings. Usually you will find one poultry house on the average farm but as a rule that is all, and unless you happen to strike a farm with more poultry buildings on you will need to build your poultry houses up with your poultry business—that is increase your buildings as you increase your stock and your business. Now whether it will pay

the average person to buy a farm with any more extensive improvements than those mentioned above will depend greatly upon the buyer's pocketbook. It will pay to buy a farm in good enough repair and state of cultivation to be able to get results at once—the first season. When you put in a crop you will want to have some assurance that you will get a crop back. Indeed if a person is well enough fixed financially he will need many more improvements on a farm that he is buying, but most of the farm buyers are poor people and therefore must be satisfied to go slow and have very common buildings and surroundings at least for a time. This I believe is what the average farm buyer will want to do—or at least he will have to do this because his pocketbook will not allow him to have every improvement he wants no matter how bad he needs it.

We hear about many hilly farms being very successful poultry farms and as far as a place to keep the poultry on is concerned such land is O. K. Poultry will do all right on hilly land but if you want land for farming purposes in connection with poultry work you will not want much real hilly land to plow and cultivate. At least you won't if you have a very bad temper, as such work on hilly fields will get one out of patience. On the other hand you do not want too wet a farm for successful poultry raising. A moderately well-drained farm will be found most suitable for everything that goes to make up a poultry farm. One thing you do want if you possibly can get it and that is running water. A good spring will be worth many a dollar to you in your poultry work to say nothing of the

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value of a spring for live stock of other kinds. Buy a farm with running water if possible. It may cost a little more but it is well worth it.

BUY CONVENIENT TO SOME GOOD SHIPPING POINT OR MARKET.

While it is possible to get over roads pretty fast now with autos, etc., it will be best to buy within easy reach of some good shipping point so when you have anything to sell you will be able to ship it if you wish to and if you are only from one to two miles from an express office you can go to the express office and back in a short time, where if you bought a farm six, eight or ten miles from any shipping point it will take a great deal of your time running to and from the express office.

If possible buy within reach of good markets. Most any one can do this now provided you are handy to a shipping point. If your local town does not have an extra good market outlet for

your poultry and eggs or whatever you have to sell, you can ship it to markets that do pay top prices.

In short, a good well-drained farm of from fifty to sixty acres—that is in a good state of cultivation, with moderately good buildings, running spring water, handy to some good market or shipping point will make a very suitable poultry farm.

But whatever you do don't buy a farm before you know whether you want it or not. Be sure you want to farm and raise poultry before you invest all your life's savings into one. And the only sure way to find out whether you like it or not, is to try it a year or so first before buying.

The man who buys a farm without any former experience in farming and starts to go into the "poultry business" with no knowledge of either farming or poultry, is about as sure to make a splendid failure of both as it is possible to make.

PLAIN TALK FOR PLAIN POULTRY PEOPLE.

An Article Which Everyone Interested in the Welfare of the Poultry Industry Should Read.

Everyone interested in the welfare of the poultry industry, everyone who wishes to see the poultry business of this country prosper, should read the article by E. R. Johnson, in December *Pacific Poultryman* entitled "Poultry Season at Present." Because we think so well of it we are reproducing it herewith.

POULTRY SEASON AT PRESENT PRICE OF EGGS AND POULTRY FAR TOO LOW.

By E. R. Johnson

A short time ago President Wilson issued a proclamation stating that it would be necessary to control some twenty different commodities, including poultry and eggs, and while the proclamation did not specifically state that the prices paid to the producer for poultry and eggs would be regulated, still there seems to be no doubt that something in this direction will ultimately be undertaken. In fixing the prices of eggs and poultry, the producer will in all probability have an opportunity to present his case, and at that time it is up to the poultrymen and their organizations to see that the prices set will enable them to continue in the business and furnish the country with an adequate supply of poultry and eggs.

While it is a difficult matter to say just what price should be set, yet all people will admit that those who devote their time, capital and energies to produce a food so vitally necessary to the welfare of the nation as are eggs and poultry, are entitled to a just price for their products. President Wilson said that a "just" price is "a price which will sustain the industries concerned in a high state of efficiency, provide a living for those who conduct them, enable them to pay good wages, and make possible the expansion of their enterprises, which will from time to time become necessary as the stupendous undertakings of this great war develop."

Will the poultry organizations and experiment stations be ready to submit data and evidence showing the actual cost of producing eggs and poultry under conditions existing at the place where these commodities are produced, or will this industry be dependent upon the benevolence of those whose duty it is to keep prices at the lowest possible level? In view of the numberless feeding experiments and contests held under all possible conditions, there should be no lack of available figures on any phase of the subject. And it is to be hoped that the persons who shall represent the poultrymen in the final conference shall have the proper perspective of conditions as they really exist and that the poultrymen will be spared the calamity of being represented by "swivel chair" poultry experts who insist that eggs can be produced around ten to fifteen cents per dozen.

This section of the country seems to have been laboring under the delusion that the poultry industry would be served best by concealing the real conditions, and its people sought by every possible means to controvert facts and figures to indicate profits that did not exist and to delude themselves into believing that the industry was on a satisfactory and prosperous basis. The editors of some papers have even devoted considerable space to an effort to convince poultry keepers that even under war conditions, English poultry keepers were enjoying a profitable business under satisfactory conditions. But Edward Brown, the English authority on poultry matters, recently said, "The man who can be optimistic with regards to the poultry industry in the face of present conditions requires examination by a mental specialist."

The eastern section of this country long ago woke up to the fact that conditions were far from satisfactory and the sooner this section will face facts without evasion the sooner satisfactory conditions will be brought about. Most papers have been printing articles affirming that profits are being made on poultry even with present prices of grain, and much has been written in this very paper purporting to show that under present ratio of feed and egg prices greater profits are realized than under normal conditions. But all of these have been based solely on the cost of feeding at the time the hens were laying and did not take into consideration that it would cost twice as much to raise the pullets or carry the hens through the moult and that every phase of the business was conducted at



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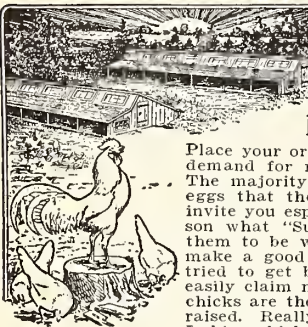
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"SUNLIGHT" POULTRY FARM S. C. W. LEGHORNS

I want your Chick and Egg Business for this year

Place your order NOW if you want to get the special early dates. The demand for my Leghorns far exceeds my output from year to year. The majority of my customers place such reliance on my chicks and eggs that the demand for them has proven beyond my capacity. I invite you especially to place your order now, and just see for one season what "Sunlight S. C. Leghorns" will do for you. I don't claim them to be world beaters, but just the kind of hens that average to make a good all around profit at the end of the year. I have never tried to get business in the past by exaggerated advertising. I could easily claim my birds to be a 250-egg strain, as lots of others do. My chicks are the cheapest to buy at any price, because they are so easily raised. Really 90 percent of my customers raise 90 percent of the chicks I ship, which proves the vitality and stamina in my stock. Remember, I don't simply run a "hatchery" here. Every chick and egg shipped from here are from my stock here on the farm. Breeding stock for sale. Write me for prices and state your wants plainly today. Catalog free.

SUNLIGHT POULTRY FARM

Box 200

LYNCHBURG, OHIO



EVERY month a few more advertisers find that it is more profitable to carry a larger space in the American Poultry Journal only, than to scatter their advertising appropriation among many non-paying publications.

American Poultry Journal reaches all the buyers worth reaching.



double the usual expense. But Prince T. Woods, in the American Poultry Journal, says that "with grain and feeds at present prices we should be getting from 50 to 60 cents a pound for best quality dressed poultry and \$1.25 a dozen for selected new laid eggs," and a writer in a large agricultural paper stated that in view of increased prices of feeds, September eggs should bring 86 cents a dozen and said "frankly, even 86 cents is insufficient."

Since the purpose of the proclamation was to establish conditions that would promote increased production it brings up the question of what means should be employed in stimulating the poultry industry. Some misguided individuals seem to believe that hens can be legislated into laying and that poultrymen can be forced to increase production by unnatural means. Others seem to believe that gaudy posters and broadcast spreading of literature will effect the desired result. It is clearly evident that the most effective and desirable method of increasing production in any line, whether it be ships or wheat, is to offer prices which will provide satisfactory remuneration for those engaged in the business of production. Given a "just" price we believe it would be unnecessary to urge the poultrymen to produce more, and if the just price is not forthcoming, no amount of posters and pleading will avail.

It is unfortunate that the very persons who are paid by the people to look after the interests of the poultry industry were most active in promoting conditions detrimental to the very industry they were supposed to aid. Experiment stations seem to have been vying with each other to see whose statements of egg production cost would be the lowest, until a recent article set forth that during a certain month, 48 ounces of feed produced a dozen eggs weighing, we suppose, 25 ounces, and that 7.3 cents worth of feed produced a dozen eggs, and that the average feed cost of producing a dozen eggs the year around was 14 cents. The most unfortunate part of the matter lies in the extensive publicity secured by these wizards in all kinds of papers, which added proof to the already existing belief of the public that they were forced to pay uncalled-for prices for eggs. Considerable space has been devoted to fervent exhortations to educate the consumer, but we have yet to see any effort made by any experiment station to impress on the public the necessity of paying at least a reasonable price for these articles. Feeble efforts by the producers to secure recognition of the justice of their claims have been ignored by the public, for did they not have the word of the state's expert that eggs could be produced for a mere fraction of what they were forced to pay? Other interests displayed full-page advertisements picturing in glowing terms the conditions and cited the state's expert to show that "\$2 per hen per year profit" was as certain as the rising sun. So the public is not educated, and the disproportionate ratio of feed and egg prices dislocated the industry at the very time when it was most important that it should have been encouraged and expanded.

ARE THESE SPORTS?

By PLUMMER McCULLOUGH.

We have a neighbor who breeds in a small way some Single Comb Black Minorcas, in which we are very much interested. Indeed we have helped him to mate up breeding pens, as he wished to breed from only the best in his flock. About a year ago he had a Black Minorca hen that when she started to moult she decided to grow white feathers instead of black, and about half of her new feathers came in white or partly white, making her a sort of mottled appearance. Now I was very much interested in this hen and wanted to see how she moulted out the past fall and just yesterday I had the opportunity of seeing her since her second moult and she is now practically white, having only a few partly black or flecked feathers in her. Now this hen is a genuine Black Minorca as far as breeding goes and while not of real high quality she is undoubtedly all Minorca.

Now this neighbor could not understand about this hen moulting out white when she was originally black and neither could I, and we have been think-

ing considerable about her the past year.

Last spring this neighbor wanted to buy a good Black Minorca Cockerel to mate up with his best hens and pullets, and as I get to see quite a few of them at the shows and fall fairs, I told him of a couple of cockerels that were exhibited at the Grov City poultry show, held last January. He wrote the man who exhibited them and succeeded in buying the first prize cockerel which I considered quite a good exhibition cockerel for a small local show. His bird arrived O. K. and he succeeded in raising quite a nice lot of young stock from him.

A week or two ago he told me he would like to have me come over and see this male bird (now a cock bird) as he said he was turning white like the hen first mentioned. I went over yesterday and true as I live that bird is almost half white since he moulted this past fall. Nearly half of his new feathers are white or partly white. Fully half of his main tail feathers are pure white and he is very much mottled all over. In fact he looks more like a very light Ancona, as far as color goes than a Minorca. From all the young stock raised from this cock he does not have one that shows any white and neither does he have any white sports bred from this male bird.

I have known of Black Minorcas throwing white sports, same as Silver Wyandottes do sometimes but I never knew of them being solid black in their first year and then turning white when they moult. Just whether this male bird mentioned above will get all white when

he moults next fall again is uncertain, but I would not be surprised if he did as the hen mentioned was no whiter than he was before her second moult. Perhaps this is nothing new to Minorca breeders but it is new to me and I would be pleased to hear from others as to whether they have any birds that turn white or not. The above birds are only a short distance away from where we live and we know these facts to be true and we could obtain a photo of them if necessary. We always called whites from blacks sports in other cases but what shall we call these, sports too? Perhaps freaks would be better. Let us hear from others.

Editor AMERICAN POULTRY JOURNAL:

Dear Sir:—I cannot express in words with what pleasure I look upon your hearty co-operation in the encouragement of "back-yard poultry keeping." It seems to me that, during this time when everyone has been asked to help in increasing our food supply, in a large city like New York, a law should be passed by which the people of this city should be allowed to keep poultry in their back-yards, and if the authorities think this plan might prove to be a disease spreader, why not appoint health department officers to inspect the small back-yard establishments?

I would be very much obliged to you if you would publish this letter in your journal, and, if it is within your power, use your influence to aid in its adoption as a law.

Hoping you will favor me, I remain a faithful reader.

J. E. DAVIS,
24 N. Washington Sq., New York.



Barker's Langshans

Win Again at Chicago Coliseum, Dec., '17

1st and 2d cock; 2d and 4th hen; 1st, 3d and 5th cockerel; 1st, 2d and 4th pullet; 1st and 2d pen.

If you have decided that only the BEST will satisfy you, write me.

A few Choice Cockerels for sale

M. S. BARKER, Thorntown, Ind.
—Rural Free Delivery Number One—

1st Cock Madison Sq. Garden, N.Y.

Pape's Single Comb Black Minorcas



Are Most Particularly Fitted for the City Lot Fancier

as they are prolific producers of large white eggs—a most delicious table fowl, and again winning Best Display at Chicago Coliseum show, 1917, insures their exhibition qualities. Am offering at very reasonable prices Eggs that will hatch, Chix that will thrive, Cockerels that will improve any flock, breeders, layers, and exhibition birds beautiful in form and feather. Mating list and assistance free. Please state requirements.

CHARLES G. PAPE Box B 74 FORT WAYNE, INDIANA

Single Comb White Leghorns

Breeding and exhibition stock for sale. Winnings: Springfield, Illinois, State Fair, Sweepstakes, 1916; Greater Chicago Show, 1916; Chicago Coliseum, 1915, and Springfield, Illinois, State Fair, 1915. Order your Baby Chicks and Hatching Eggs early, as the demand is sure to exceed the supply.

MEADOW LARK FARM, J. W. Taft, Prop. Box 3, Route 3, ELGIN, ILL

Harnly's Quality White Orpingtons

Book your order NOW for EGGS and BABY CHICKS from the strain that produced the World's Champion White Orpington Male and Won Championship White Orpington Male honors 2 years in succession. EGGS only \$3, \$5 and \$15 per sitting. Fertility guaranteed. Write for particulars.

Mary K. Harnly - 2301 Elisha Ave. - Zion City, Ill.



First prize Black Langshan cockerel at Chicago Coliseum Show, December, 1917. Owned by M. S. Barker, R. F. D. 1, Thorntown, Ind.



First prize Buff Orpington pullet at Chicago Coliseum Show, December, 1917. Owned by Walhalla Poultry Farm, R. 1, Oscoda, Mich.

Incubator Instructions.

The temperature of a laying hen's body is 98 degrees. The temperature of a setting hen's body is 103 to 105 and I have known them to register 106. A setting hen has a fever of from 5 to 7 degrees. It is this fever that makes them want to set. This fever stays with them to a greater or less degree until the chicks are weaned or her setting notions have been broken up. Little chicks discover the lower temperature days before the hen quits them and become uneasy. This can be verified by any experienced poultry raiser.

In operating incubators the tendency is toward warming the eggs up too fast. It should take two days instead of two hours. The rule when operating incubators is to run the heat up to 105 in empty machines, set the regulator and let her go Gallagher. The cool eggs run the temperature down, it also holds the damper down and the heat of tank gets greater and greater. It would be foolish to surmise that the hen gets hotter and hotter.

The contents of an egg is one of the best known non-conductors of heat or cold and in order to warm eggs clear

through to 103 degrees without injury to the side next the heat, it should take two days instead of two hours, as stated. It is my conviction that it is the rule to warm the eggs up too fast.

My conviction drawn from experience is that 102 for the first week, 103 for the second week and 104 for the third week is the correct temperature, and if occasionally the heat gets a little too high that it is the proper time to turn and air the eggs. A little too high would mean 105 degrees, which sometimes occurs with the very best regulators.

The setting hen turns and airs the eggs more than we credit her for. We draw our conclusions too much from casual notice. When we enter the room where she sets, she settles down on the eggs and gets mad. The entrance of a cat or dog has the same effect. Any unusual noise will cause her to settle down and to stay that way so long as she is uneasy but when everything is safe she is an entirely different hen. She is continually working with the eggs, has a number of notions to move, stir and turn them.

She turns them with her beak, with her feet and hocks and very often she settles down on them and shakes her

whole body. She not only does this during the day but thru the night. To verify this all you need to do is to mark the eggs late in the evening and look at the marks early in the morning. The hen not only goes thru all these motions mentioned but she settles down with her head in different directions, her whole aim seeming to be to keep the eggs warm and moving.

Reader, no matter the kind of incubator, the mere turning the eggs half over once each day would be a weak mimicry of the hen. The sooner the old superstitions about eggs are put in the background and we get right down to aping the hen in dealing with the artificial method, the sooner incubators will be used on every farm and by every poultry raiser.

Winter Eggs.

Make the conditions as near as possible to summer conditions, by taking the chill off their drinking water, supplying cut clover and beef scraps, both fed dry in hoppers, with plenty of shells and grit, and you will have eggs, no matter what the breed is.

Partridge Rocks

America's Best Exhibition and Breeding Strain
The most beautiful variety in the world, and the best general purpose fowl. Our birds have the size, the shape and the plumage. We have won 46 of the 52 first prizes competed for at America's greatest shows, including Madison Square Garden, for six years.

BREEDERS AND SHOW BIRDS FOR SALE

We can furnish winners for any show, or furnish you with vigorous, high class breeders. **Hatching Eggs.** Send a stamp for our Partridge Rock catalog, and book your hatching egg order.

BIRD BROTHERS

Send a stamp for either Partridge Rock or Turkey Catalog.

Bronze Turkeys

WORLD'S CHAMPION "Goldbank" STRAIN

Our Bronze turkeys are better in vigor, size, shape, plumage and egg-laying qualities. They are the world's leading prize-winners. They have won 57 of the 69 firsts, all best display specials and 148 other regular prizes at 17 great shows. We have raised ten generations of Madison Square winners.

EGGS, SHOW AND BREEDING STOCK

We can furnish either show winners or large, vigorous breeders that will produce both size and heavy egg-laying qualities. We have mated up three grand flocks. Send a stamp for turkey catalog.

Box "C"

MEYERSDALE, PA.

Associations and Shows

Secretaries are Requested to Send in News Items of Interest About Their Shows for This Department

OHIO A. P. A. COMMITTEE MEETS.

Reported by Herbert H. Knapp

The Ohio Booster Committee appointed by President Richards met Thanksgiving Day in the Chittenden Hotel at Columbus. The committee met in special session to confer with Prof. F. S. Jacoby and Prof. Milligan C. Kilpatrick, poultry investigators and instructors in the Ohio State University. The following members were present: J. E. Gault, C. E. Cram, Len Lanus, Hugo B. Hark, Frank S. Smith, Chas. McClave and Herbert H. Knapp. Luther Stream and O. W. Aldrich also met with the committee. J. E. Gault, president of the Ohio Breeders' Association and chairman of the committee, opened the session by calling upon Prof. M. C. Kilpatrick at whose instigation the meeting was called. The burden of Prof. Kilpatrick's remarks was to the effect that the Ohio State Department was ready to help carry out any campaign of education that could be suggested by the committee for the betterment of the poultry industry of the State of Ohio. He further stated that two more field men would be added to the efficient force already at the command of the department. He also advocated earlier hatching and discouraged the hatching of chicks after June 1. Very earnest remarks were made by Prof. Jacoby whose thoroughness in poultry work is well known. Prof. Jacoby has made a special study of the mammoth hatchery interests of Ohio which leads all other states in this fast-growing and popular industry. He recognizes the fact that where one of these hatcheries operates, from seventy-five to two hundred poultry breeders are keeping pure bred flocks to supply the eggs. It is estimated that there are over one thousand such flocks in the state; these flocks in turn have supplied their neighbors with standard bred stock until now Ohio without doubt leads in the number of separate flocks of birds of this quality. California and some Eastern states that produce large quantities of market eggs may surpass Ohio in the number of White Leghorns. It was agreed that the best work that can be done in Ohio is to teach breeders to produce more early hatching eggs that the large hatcheries may be enabled to get out more early chicks—to this end the state field men from the university will hold special institutes during the coming winter to teach breeders the best possible methods of procedure to obtain

the ends desired. Other speakers offered valuable suggestions and it was agreed by all present that no member of the committee should let an opportunity pass to encourage the raising of more and better poultry in Ohio. The meeting adjourned to meet Friday, January 11, at the Cleveland Poultry Breeders' Show.

Rochester, N. Y., Show.

The Flower City Show is making an especial effort this year to awaken renewed interest in poultry raising, to which end we are asking for the co-operation of all breeders, as if our efforts are to be successful, it is imperative that we have the support of representative poultrymen. Renewed confidence—that's what this country's poultry industry is in its most urgent need of, and the Flower City Show is working this year as never before to restore that confidence which is sadly lacking. The poultry breeders can assist materially by showing their birds, and even tho it may not fit in just right with other plans and takes some extra effort to prepare for such a showing, this is the year of all years, for the breeders to rally to the cause and help to create a better feeling in the poultry industry; the cause justifies the extra effort. We announce our determination to co-operate with our Government to the very fullest extent and therefore will comply with and support in every particular, the recommendations of Herbert C. Hoover, supervisor of the United States Food Administration. Preparations are under way also, to have Government poultry expert in attendance, to lecture on subjects of vital importance to the industry at this particular time. Our show is to be held the same week and in connection with the big corn and grain show, which will bring hundreds of farmers to Rochester who are naturally deeply interested in live stock feeding; and this should give the government workers an excellent opportunity to drive home to those who should listen, Mr. Hoover's very urgent message, "We must have quick response in poultry products." As to our judges—we have engaged Newton Cosh, Charles Nixon, Richard Oke, James Glasgow, Wm. H. Anderson, A. J. Braun, Howard Young and A. Samuels; the last two mentioned being pigeon judges. A number of specialty club meetings are to be held in connection with the Flower City Show, among them being the following: National

meeting of the Partridge Wyandotte Club; State meeting of the United Ancona Club; New York State meeting of Barred Rock Club; Business meeting of Modern Game and Game Bantam Club; State meeting of the S. C. White Orpington Club. While early indications point to a splendid show, there is a tendency among breeders to "let the other fellow do it." Many of them do not seem to appreciate the importance of the appeal that has been made to poultrymen, nor do they seem to realize its seriousness. We are determined, further, that the strength that characterized our last season's show will be even more conspicuous in our coming show. Our classes will speak for themselves, and in a striking manner.

A Rally to the Fancier.

The Annual State Show of the New Jersey State Poultry Association will be conducted by the State Show Committee on January 23-25, 1918, at Trenton, N. J. Previous state shows have had large entries and been well attended. Owing to the conditions of the times it is apparent that there will be but very few poultry shows held this winter, and it ought to mean that there will be well filled classes of exhibition poultry in those which are held. Winners of the State Show will be classed as New Jersey State Champions, and every fancier in New Jersey ought to rally at this time to make a successful showing of standard bred poultry. There is no doubt that thoughts of utility classes prevail more at this time than exhibition classes and a creditable showing should be made of standard bred exhibition breeds in order to bring about a comparison that will tend to elevate and bring our farm flocks to a higher standard. Sentiment should take a part as well. This is an exhibition where every patriotic New Jersey fancier ought to make an entry. It is likewise the official A. P. A. show and the gold and silver medals of the national body will be competed for. It is hoped that the old line fanciers will rally at this meeting, and the success of the exhibition will depend greatly upon the efforts of those who desire to popularize their breeds. For full particulars address Carroll H. Hoagland, Ledgewood, N. J.

Pittsburgh Entries Close January 9.

What will probably be the largest patriotic gathering of poultrymen ever held in Pennsylvania will be the gathering of the fanciers called by the War Poultry Association, during the week of the Poultry Show, January 21st to 26th, at Motor Square Garden. In addition to the above the following clubs will hold their meetings during the Pittsburgh Show: American Light Brahma Club, American Single Comb Brown Leghorn Association, American Single Comb Black Minorca Club, and United Ancona Club. The following

An Accident in S. C. W. Leghorns



During the very cold weather of December 10-15, which was accompanied by an icy gale, several windows were broken in one of my cockerel houses and over 100 of my choicest birds had their combs nipped by the frost. As it usually happens, these birds were of the best matings. Many birds out of this lot have been sold for as high as \$75 each. As these birds are unfit now for exhibition purposes, I am compelled to sell them at prices that are extremely reasonable for the quality. The frosted condition of the comb will not affect the breeding value of the birds and fanciers have the opportunity of a lifetime to improve their flocks. The Hillview Strain of White Leghorns is noted for its wonderful Standard type. Artist Stahmer's statement should convince any one that these birds are bargains.

I have examined the cockerels referred to in this ad. and would say they are a bargain at the prices which are asked for them. Every bird in the lot is a Leghorn in every sense of the word. Their fine head points, beautiful back and tail will improve many flocks deficient in these sections. The frosted condition of their combs will not hurt them in the least for breeding purposes. Fanciers have an unusual opportunity to obtain some very fine birds at reasonable prices. I can cheerfully recommend them.

Louis A. Stahmer, Artist.

Our birds have just won at the great All-Leghorn Show, Columbus, Ohio, 3 firsts, 3 seconds, 1 third, 1 fourth, 2 fifths, special for best display, best male and female headpoints and best bird in the entire show, proving conclusively that they have the shape and general characteristics that satisfy the most particular judges. Send your order today for one or more of these fine cockerels that have been touched by the frost. We will sell them quickly at the prices we ask for them.

\$5, \$10, \$15

HILLVIEW FARM

**C. LABAHN, Owner
T. COCHRAN, Mgr.**

Box 27, LINCOLN, MO.

Conkey's Buttermilk Starting Food

The lactic acid in the pure, rich buttermilk strengthens and tones up the sensitive digestive organs of the baby chick—helps prevent White Diarrhea. The mixture of clean, wholesome grains, properly balanced, supplies right nourishment to start and keep them growing.



Conkey's is different from all imitations.

Makes Chicks Grow

Costs only 2c to feed each chick 8 weeks

GET THE ORIGINAL and watch the chicks grow. Builds strong, sturdy chicks that grow into good breeders and heavy layers.

Buy a bag. Ask your dealer.

Conkey's Poultry Tonic keeps hens laying. 12-lb. pail \$1.40; pgs. 30c & 60c.

THE G. E. CONKEY CO.
1000 Conkey Building, Cleveland, Ohio

Pigeon Clubs will also hold their meet with us; The International Magpie Club, American Nun Club. During the show there will be several innovations such as gift classes, which will be auctioned off Friday night of the show week. Exhibitors and stockholders are invited to donate birds for this class. Ribbons will be awarded but no entry fee charged. The birds will be sold at auction to the highest bidder and proceeds will go to the association. There will be a crowing contest on Tuesday and Thursday nights, finals being on Friday night. Inquiries for premium lists are being received, and the Secretary, J. Leonard Pfeuffer, 502 Commonwealth Bldg., will gladly forward one for the asking.

Wisconsin Poultry Association.

Catalogs are out announcing the fourteenth annual convention and show of the Wisconsin Poultry Association, which will be held at the university live stock pavilion, January 7-11, 1918. In addition to the usual number of regular prizes offered by the association and specials given by commercial concerns, the annual race for the state cups given by prominent breeders and exhibitors of Wisconsin will be more keen than ever. Bronze medals will be granted to exhibitors whose birds take show championships. George Hackett, North Freedom, will judge Barred and White Rocks, White and Buff Wyandottes, R. C. Reds, Brown Leghorns, White and Black Orpingtons, and Black Langshans, George Wells, Oshkosh, another well known "weigher of points," will scan the Buff and Partridge Rocks, Partridge, Golden and Silver Wyandottes, White and Buff Leghorns, Buff Orpingtons and Light Brahmas.—Charles Love, Waukesha, Wis., Sec'y.

The fifth annual show of the Cannon Valley Poultry Association will be held in Fairbault, Minn., on February 5, 6, 7 and 8, 1918. G. W. Hackett has been secured as judge. Entries close February 1.—E. D. Roth, Sec'y., Fairbault, Minn.

The Connecticut Valley Poultry Association, Bellows Falls, Vt., will hold its annual show January 3rd, 1917.—R. K. Thayer, Secretary.

The Central Minnesota Poultry Association will hold its seventh annual exhibit at St. Cloud, Minn., January 10-14, 1918. Judge Geo. W. Hackett will place the awards.—A. H. Goedert, Secretary, St. Cloud, Minn.

The Northeastern Poultry and Pet Stock Association will hold its ninth annual show at Green Bay, Wis., Jan. 15-20, 1918. Geo. Northrup, Judge. M. J. Rahn, Sec., Green Bay, Wis.

Central Wisconsin Poultry Association will hold its seventh annual show January 9-13, 1918, at Wausau, Wis. Jas. A. Tucker, Judge. R. E. Hochtrit, Sec., Wausau, Wis.

Muskegon and East Shore Poultry Fanciers' Association will hold its annual show January 22-25, 1918, at Muskegon Heights, Mich. W. M. Wise, Judge. H. S. Nabel, Sec.

The Mettowee Valley Poultry, Pigeon and Pet Stock Association will hold its third show at Granville, N. Y., January 22-25, 1918.—D. B. Braymer, Sec'y. John D. Jaquins, Judge.

The Ohio Valley Poultry Association Co., Inc., of Marietta, Ohio, will hold its twelfth annual show January 14-19, 1918. Judge J. E. Gault will judge by comparison.—T. N. Fenn.

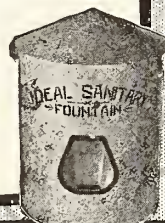
The American Buff Plymouth Rock Club elected the following officers: President, Thos. B. Elliott, St. Louis, Mo.; Secretary-Treasurer, D. P. North, Waverly, N. Y. Executive Committee—C. R. Baker, Abilene, Kan.; C. H. Barnes, Kalamazoo, Mich.; John Bowden, Ridgerton, Ontario, Canada. Election Commissioner, C. A. Morton, St. Louis, Mo.

Increase the Egg Yield

Because the Ideal Sanitary Fountain keeps water at the right temperature in zero or the hottest weather, it conserves the health of the hens and greatly increases the egg yield.

The Ideal is made of galvanized iron and built to last a lifetime. See your dealer. Write us for complete information.

Rockford Poultry Supply Co.
Lock Box J. A. 201
Rockford, Illinois



The final plans of the 24th Annual Illinois State Show, to be held at Peoria, Ill., January 18th to 22nd, 1918, will show that no other state show held in Illinois offered more inducements to breeders of fancy poultry. First Peoria with its surrounding suburbs has a population of close to a million to draw from, and as no admittance will be charged, greater crowds than ever visited a poultry show in this state are assured. With the hearty co-operation of the Commerce Club and the daily newspapers of Peoria no show will be better advertised and breeders are overlooking a mighty good bet when they fail to show here. Sales no doubt will be enormous and we will have the full Government exhibit with Harry Lamon, F. L. Platt and Mr. Klinghorne in charge of same. Now, breeders, this is the time to show here and come in person and do all you can to get everybody to raise poultry. On Sunday, January 20, will be held our annual meeting and every breeder is requested to attend if possible. Ways and means will be taken then to get an appropriation from the state that will help every poultry association in Illinois, and the associations are invited to send a representative to this meeting. Seven clubs have their annual meeting during the show and all visiting exhibitors will be banqueted free Monday evening, January 21, which will be a treat for everyone. With higher cash prizes than any show in the state, official catalogs distributed free to everybody, cash special on best displays and also on shape and color in every variety, it is beyond question the best opportunity breeders of poultry have had in a long time. Put your shoulder to the wheel, come and make your presence felt, it will do a world of good for the poultry industry. Catalog is ready, write A. D. Smith, Quincy, Ill., for copy.

COLISEUM WINNERS

Greenan's

White Wyandottes

At the Chicago Coliseum, Dec., '17

In competition with some of the best birds in the country, with 8 birds entered, I won 7 prizes, as follows:

2d and 7th Cock	2d and 6th Pullet
1st and 3rd Hen	6th Cockerel

Exhibition Stock for Sale
I can also supply your wants in high-class breeders—cocks, cockerels, hens and pullets.


EGGS FOR HATCHING
If you want to raise some winners for next season, get my mating list. The winnings above show I have the stock, and have been winning for the past 15 years. Send today for catalog.

JOHN B. GREENAN
Deckerville - Michigan

Strawberries

EVERBEARING AND OTHER KINDS

Also Headquarters for Raspberries, Blackberries, Currants, Gooseberries, Grapes, Asparagus, Fruit Trees, Roses, Shrubs, Seed Potatoes, Eggs for Hatching, Crates, Baskets, etc. 35 years experience. Catalog free. Write today, address L. J. Farmer, Box 836, Pulaak, N. Y.



BROODER

For \$2.96, including heater, you can build the simplest, most efficient, and most satisfactory brooder ever made. Wind-proof; fire-proof; rat-proof; fool-proof. Can be built by anyone in an hour, with saw and hammer. Plans 10c.

I PUTNAM, Route 105 ELMIRA, N. Y.

\$2.96

The Holmes County Poultry Breeders' Association will hold its third annual exhibit, January 14 to 19, 1918, at Millersburg, Ohio. One hundred dollars in cash has been offered as special prizes. The Ohio State University will have an exhibit of poultry appliances, etc., and a special booth will be arranged to feature the American Poultry Association and its work, thus bringing its many good points direct to the farmer and exhibitor who attend this show. Premium list is now ready for mailing and can be secured by addressing the Secretary, O. A. Engel, Millersburg, Ohio.

The Buttercup Club meet at Oxford, N. Y., brought out a record class—18 cocks, 27 hens, 41 cockerels, 44 pullets and 23 pens. There were 17 exhibitors. At the annual meeting the following officers were elected: Wm. Friesse, president; J. L. Thomas, vice-president; C. J. Lieteer, secretary; Arthur D. Loper, treasurer.

The Ozaukee County Poultry Association will hold its annual show at Cedarburg, Wis., January 11-13, 1918.—Jas. E. Greenwald, Judge. Fred W. Hilgen, Sec'y, Cedarburg, Wis.

S. C. Brown Leghorn Cockerels

bred from my Chicago, Indianapolis, Milwaukee and Columbus winners at \$3.00, \$5.00, \$8.00 and \$10.00 each, according to quality. These cockerels will not only win but will improve the laying qualities of any flock if properly mated to females. Order from this advertisement or write for particulars.

HERBERT F. MOELLER
Box 137-B La Porte, Ind.




Poultry Profits Increased

by using Norwich Automatic Appliances. They save feed, time and labor—induce larger egg-yield—insure rapid growth. Durable—inexpensive—guaranteed satisfactory.

Complete catalog free.

THE NORWICH AUTOMATIC FEEDER CO.
21 Trumbull St. New London, Conn.




62 BREEDS, Pure-bred Chickens, Ducks, Geese, Turkeys.

Hardy northern raised vigorous, beautiful. Fowls, eggs, incubators, at low prices. America's Pioneer Poultry Farm, 24 years exp. Large fine Annual Poultry Book and Catalog FREE.

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How many baby chicks did you lose last spring? It isn't necessary to lose any that hatch strong. I have a method by which you can raise them all. Send postal card for particulars.

W. C. GREGORY 6th St. TELL CITY, IND.



SHOW DATES

This list has been compiled from information received from secretaries or judges. If the dates of any poultry show in which you are interested do not appear hereunder, kindly have the secretary mail the necessary information to us and same will be published in our next issue.

CALIFORNIA.

Jan. 9-15, 1918. Los Angeles; Poultry Breeders' Assn. of Southern California. W. M. Ross, Glendale, Cal., sec.; S. B. Johnson and Will Purdy, judges.

COLORADO.

Jan. 21-26, 1918. Denver. W. C. Schuman, mgr., 400 S. Emerson St.

CONNECTICUT.

Jan. 17-18, 1918. Norwalk; The Norwalk Poultry Assn. Myron W. Osborn, sec.

DISTRICT OF COLUMBIA.

Jan. 15-21, 1918. Washington; Capital Poultry & Pigeon Assn. R. D. Lillie, 227 Maple Ave., Tacoma Park, D. C., sec.

ILLINOIS.

Jan. 7-12, 1918. Paxton; Eastern Illinois Poultry and Pet Stock Assn. Roy McCracken, sec.; J. A. Leland, judge.

Jan. 7-12, 1918. Joliet; Joliet Poultry and Pet Stock Assn. A. L. Schaller, 1405 Center St., sec.; Ed. L. Hayes, judge.

Jan. 8-10, 1918. Bridgeport; Lawrence County Poultry Assn. F. M. Kaley, sec.

Jan. 9-15, 1918. Chicago; Greater Chicago Show. D. E. Hale, 440 So. Dearborn St., sec.

Jan. 14-19, 1918. Decatur; Decatur Poultry Show. H. B. Lowe, sec.; J. C. Johnson, W. F. Fry, E. E. Deetz, judges.

Jan. 18-22, 1918. Peoria; 24th Annual Illinois State Show. A. D. Smith, Quincy, Ill., sec.; J. C. Johnston, D. E. Hale, O. L. McCord, D. T. Heimlich, Geo. Heyl, J. Leland and J. J. Klein, judges.

Jan. 23-27, 1918. Chicago Heights; Chicago Heights Poultry Assn. A. E. Page, sec.; L. A. Stahmer, judge.

INDIANA.

Jan. 7-11, 1918. Indianapolis; Indianapolis Breeders of Poultry and Pet Stock Assn. Fred W. Helcher, sec.

Jan. 7-12, 1918. Lafayette; Lafayette Poultry and Pet Stock Show. S. J. Shaw, sec.

Jan. 8-12, 1918. Huntington; Huntington Poultry, Pigeon & Pet Stock Assn. Harry I. Young, sec.; J. C. Clipp, judge.

Jan. 9-12, 1918. Wakarusa; Wakarusa Poultry Assn. Vern Hahn, sec.; W. E. Stanfield, judge.

Jan. 15-20, 1918. La Porte; La Porte Co. Poultry Assn. A. F. Wegner, sec.; W. E. Stanfield, judge.

Jan. 17-22, 1918. Ft. Wayne; Ft. Wayne Poultry Show. J. C. Hovenstein, sec.

IOWA.

Jan. 3-8, 1918. Dubuque; Dubuque Poultry Assn. John Ball, sec.; J. A. Tucker, judge.

Jan. 7-10, 1918. Davenport; Eastern Iowa Poultry Fanciers' Assn. H. M. Beaver, 314 E. 13th St., sec.; H. A. Bittenbender and F. H. Shellabarger, judges.

Jan. 7-12, 1918. Hampton; Hampton Poultry Assn. W. F. Sampson, sec.; H. C. Dippel, judge.

Jan. 14-19, 1918. Burlington; Burlington Poultry Assn. Rev. W. I. N. Densmore, sec.; Harry Atkins, judge.

Jan. 16-19, 1918. Mason City; Upper Iowa Poultry Breeders' Assn. F. G. Mitchell, sec.

Jan. 22-25, 1918. Osage; Cedar Valley Poultry Assn. Ray A. Gardner, sec.; H. A. Bittenbender and L. H. Lackey, judges.

KANSAS.

Jan. 1-4, 1918. Leavenworth; Leavenworth Poultry Assn. Chas. M. Swan, sec.; Branch, Cook, Palmer, Quisenberry and Fiske, judges.

Jan. 7-12, 1918. Wichita; Kansas State Poultry Breeders' Assn. Thos. Owen, sec.; E. C. Branch, judge.

MASSACHUSETTS.

Jan. 14-19, 1918. Barre; Silver Wyandotte Club of America. Clare E. Hoffman, Esq., Allegan, Mich., sec.; Drevendstedt, judge.

MICHIGAN.

Jan. 14-19, 1918. Pontiac; Eastern Michigan Poultry Assn. A. D. J. Shimmel, sec.; Wm. Wise, judge.

MINNESOTA.

Jan. 8-11, 1918. Litchfield; Meeker Co. Poultry Assn. Frank Wire, sec.; G. D. Holden, judge.

Jan. 14-16, 1918. Rush City; Chisago Co. Poultry Assn. C. H. Sommer, sec.; A. C. Smith and Mrs. John Kruse, judges.

MISSOURI.

Jan. 14-19, 1918. Kansas City; Kansas City Poultry Show. E. L. Noyes, sec.; E. C. Branch, J. C. Johnson and V. H. Southard, judges.

NEBRASKA.

Jan. 14-19, 1918. Holdrege; Nebraska State Poultry Show. M. G. Scudder, Central City, Neb., sec.; T. E. Quisenberry, Russell F. Palmer, E. M. Quay and Guy Schreff, judges.

NEW YORK.

Jan. 8-12, 1918. Rochester; Genesee Valley Poultry & Pigeon Assn. James H. West-

cott, sec.; Boyd Johnson, Jacob Eberly Chas. M. Smith, Irving F. Rice, Fred Lisk, Henry Alt and Frank Cook, judges.

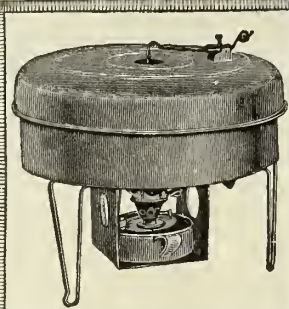
Jan. 9-12, 1918. Nyack; The Rockland Co. Poultry Assn. D. W. Young and D. L. Lincoln Orr, judges; Gordon Spark, Sparkhill, N. Y., sec.

Jan. 15-19, 1918. Utica; Central New York Poultry and Pet Stock Assn. Fred H. Bohrer, sec.; D. M. Green, W. M. Anderson, Wm. Hobbs and Mrs. Edith L. Masten, judges.

NORTH DAKOTA.

Jan. 9-11, 1918. Bismarck; Missouri Slope Poultry Assn. Frank Milhollan, sec.

OAKES QUALITY SUPPLIES POULTRY SUPPLIES



OAKES ECONOMY ALL STEEL INCUBATORS

—mean better, healthier more profitable flocks

Oakes Economy INCUBATOR

Steel throughout. Compact and light, occupies only 20 inches of floor or table space, 19 inches diameter, will hold 53 to 54 average eggs. Low in first cost and economical in operation.

Oakes Automatic Exerciser and Feeder

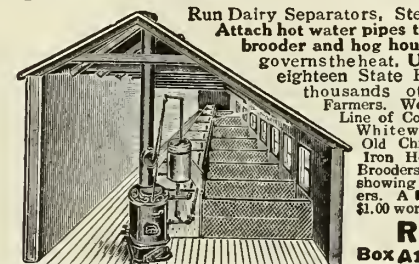
Prevents waste, saves feed, increases egg production. Makes them scratch to get the grain—the natural way. Half bushel size \$3.75. One bushel size \$4.50 f. o. b. factory.

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335 Dearborn St., Tipton, Ind.
Incubator & Brooder Supplies, Fixtures & Repairs. All metal parts for making new machines or repairing old ones.
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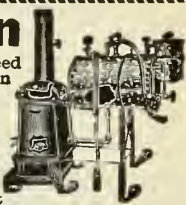


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Ripley's No. 20A Combination Cooker and Heater



will cook 1 to 3 barrels feed at a time, or heat water in tanks 300 ft. from cooker.
Run Dairy Separators, Sterilize Bottles, Cans, etc. Attach hot water pipes to fire box and it will heat brooder and hog houses. Automatic regulator governs the heat. Used and recommended by eighteen State Experiment Stations and thousands of Noted Breeders and Farmers. We manufacture the Largest Line of Cookers in the United States. Also Whitewashers, Sprayers, Egg and Day Old Chick Shipping Boxes, Carts, Cast Iron Heaters and Metal Hovers for heating Brooders, Greenhouses, etc. Write for Catalogue, showing Letters from hundreds of pleased customers. A Ripley Cooker will save you 5¢ on every \$1.00 worth of feed used for stock and poultry.



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FLOWER CITY SHOW

Rochester, N. Y., Jan. 25 to 31, 1918

America's Best Judges

No Better Show Hall Anywhere

The same week as the big corn and grain show that will bring hundreds of buyers to Rochester to see your birds.

Patriotic duty demands that more and better poultry be raised; show your birds so that those interested may see them.

We will do our bit with a remarkably low entry fee, and pay liberal premiums also.

Premium List December 15

Entries Close January 10

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AT LAST — A REAL STATE SHOW Coliseum, Peoria, Illinois, Jan. 18 - 22, 1918

Red Club, Light Brahma, Buff Orpington, Golden Wyandotte and White Rock Clubs' State meets, more coming. Free Door. Highest Cash Prizes; Cash Specials on Best Shape Male and Female in all varieties; \$10 in Gold for Best Displays. Free Official Catalogs. Free Banquet to all Visiting Exhibitors. A Square Deal whether you show one bird or a hundred. Catalog now ready — Write for one today to

A. D. SMITH, Secretary

QUINCY, ILLINOIS

OHIO.

Jan. 1-6, 1918. Lancaster; Fairfield Co. Poultry Assn. Thos. Baus, sec.; Chas. McClave, judge.

Jan. 7-12, 1918. Bedford; Cleveland Poultry Breeders' Assn. Co. J. O. Somers, sec.

Jan. 7-12, 1918. Wauseon; Wauseon Poultry and Pet Stock Assn. Harry L. Merrill, sec.; Barrett and Nusser, judges.

Jan. 8-12, 1918. Shelby; Shelby Poultry Assn. M. L. Norris, sec.; E. W. Travis, judge.

Jan. 14-18, 1918. Mt. Victory; Mt. Victory Poultry Assn. L. J. Thompson, sec.; Chas. McClave, judge.

Jan. 14-19, 1918. Marietta; Ohio Valley Poultry Assn. T. N. Fenn, sec.; J. E. Gault, judge.

Jan. 14-19, 1918. Newark; Newark Fanciers' Assn. H. M. Close, 179 9th St., sec.; A. F. Kummer, judge.

Jan. 16-20, 1918. Port Clinton; Port Clinton Fanciers' Assn. G. T. Conley, sec.; D. D. Whitaker, judge.

OKLAHOMA.

Jan. 7-12, 1918. Enid; Big Center Poultry & Pet Stock Assn. A. K. Callahan, sec.; A. T. Modlin and W. C. Tallant, judges.

Jan. 7-13, 1918. Enid; Big Center Poultry and Pet Stock Assn. S. S. Druley, sec.

PENNSYLVANIA.

Jan. 7-12, 1918. New Kensington; The Allegheny Valley Poultry Assn. S. S. Bard, sec.

Jan. 8-12, 1918. Lewistown; The Mifflin Co. Poultry Assn. A. B. Hamilton, sec.

Jan. 9-12, 1918. Sharon; The Mercer Co. Poultry Assn. Ralph W. Roberts, sec.

Jan. 21-26, 1918. Pittsburgh; Poultry Exhibition of Pittsburgh. J. L. Pfeuffer, sec.

Jan. 23-26, 1918. Oil City; Oil City Poultry Assn. Chas. R. Baker, sec.; Chas. McClave, judge.

SOUTH DAKOTA.

Jan. 1-4, 1918. Watertown; The Northwest Poultry Assn. G. Paul Pitt, sec.; Glen Richards, judge.

VERMONT.

Jan. 15-18, 1918. St. Albans; Vermont State Poultry Assn. M. D. Jarvis, sec.; D. P. Shove and C. H. Shaylor, judges.

WEST VIRGINIA.

Jan. 21-26, 1918. Huntington; Huntington Poultry & Pet Stock Assn. Geo. Parent, sec.; Frank L. Platt, judge.

WISCONSIN.

Jan. 1-7, 1918. Beloit; Beloit Poultry Show. W. G. Short, sec.

Jan. 2-6, 1918. De Pere; The De Pere Poultry Assn. James Phimister, Jr., sec.

Jan. 2-6, 1918. Sheboygan; Sheboygan Poultry and Pet Stock Assn. Geo. L. Pratt, sec.; D. E. Hale, judge.

Jan. 3-7, 1918. Lake Geneva; The Lake Geneva Poultry Assn. G. B. Stannard, sec.; Chas. V. Keeler, judge.

Jan. 7-11, 1918. Madison; Wisconsin Poultry Assn. J. G. Halpin, sec.; Hackett & Wells, judges.

Jan. 7-12, 1918. Mineral Point; Mineral Point Poultry Assn. Allen Tucker, sec.; Geo. H. Northup, judge.

Jan. 8-12, 1918. Madison; Madison Poultry Show. J. G. Halpin, sec.

Jan. 10-13, 1918. Oshkosh; Oshkosh Poultry Show. P. Hanley, sec.

Jan. 10-13, 1918. Oshkosh; Wisconsin State Poultry Assn. E. J. R. Meyer, sec.; Geo. Wells, judge.

Jan. 15-18, 1918. Eau Claire; Eau Claire Poultry Assn. A. H. Ahrens, sec.; Ed. L. Hayes, judge.

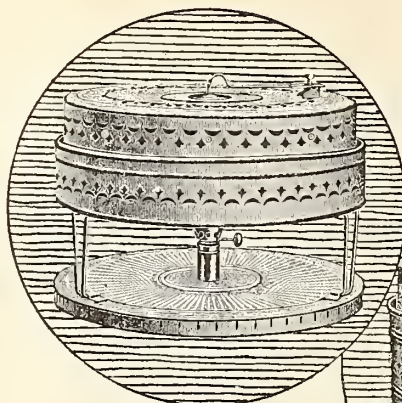
Jan. 15-20, 1918. Green Bay; Northeastern Poultry & Pet Stock Assn. M. J. Rahn, sec.; Geo. Northup, judge.

Jan. 23-26, 1918. Appleton; Appleton Poultry Show. W. Miller, sec.

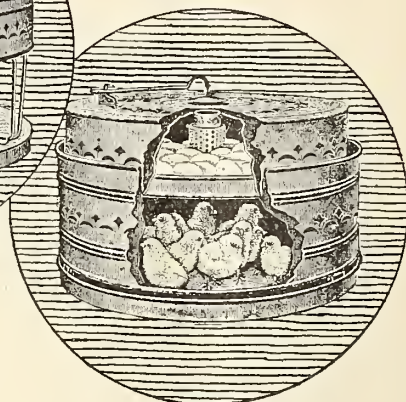
Jan. 28-31, 1918. Waukesha; Waukesha Poultry Show. Mr. Love, sec.

Jan. 31, 1917, to Feb. 3, 1918. Plymouth; Eastern Wisconsin Poultry and Pet Stock Assn. W. E. Beiersdorf, sec.; Geo. M. Wells, judge.

Feb. 1-4, 1918. Plymouth; Plymouth Poultry Show. W. E. Bierendorf, sec.



Cycle



50-egg Hatcher, \$7

Brooder-Hatcher, \$9

The Sure and Easy Way of Hatching Chicks

and plenty of them—big, strong, vigorous chicks that are ready to live and easy to raise. The practical machine for the busy farmer or the business man with a backyard flock. Requires no special place to operate it—any room from cellar to attic—and two or three minutes a day is all the attention required.

No machine will hatch a larger percentage of chicks, or better, sturdier chicks. Cycle chicks are fully equal to hen-hatched chicks in every way, and it so closely follows the natural principles of hatching that it hatches every hatchable egg—hens, ducks, geese or turkeys. It is built to give a lifetime of satisfactory service; all metal, beautiful aluminum bronze finish, fireproof, and will not warp, swell, shrink or crack. Retains the natural moisture of the eggs, so no supplied moisture is required. Heat is automatically regulated and an abundance of warm, fresh air is supplied to every egg. The lamp is our long-burning safety pattern and two to three quarts of oil will run a full hatch.

Don't be disappointed—buy a genuine Cycle. You can get cheaper machines, but no better. It is a good investment you will never regret, because it is the sure and easy way of hatching chicks.

Light in weight and can be shipped by parcel post, express or freight. Prompt shipments, and machines are fully guaranteed.

Send for our new free catalog. It will give you many new ideas about poultry keeping and help you avoid war time mistakes. Tells why the CYCLE is the best machine for you and describes and gives prices of the Philo System Ready-Built Coops, supplies and the Philo Business-Hen strain of White Orpingtons. Write for your copy today.

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ELMIRA, N. Y.

Our \$1 Philo System Textbook sent for 10c and addresses
of three people interested in poultry keeping.

Baby Chicks and Hatching Eggs from Trap-Nested BRED-TO-LAY Barred Plymouth Rocks and S. C. White Leghorns

Acknowledged as the World's BEST Layers

Baby Chicks - - \$16.00 per 100 and up. Eggs - - \$8.00 per 100 and up.

A fine bunch of large, husky Cockerels for sale, at from \$3.50 and up.

Write for Prices and Particulars

AMOS G. NORMAN Dept. S CHATSWORTH, ILLINOIS, U. S. A.





Second prize Golden Wyandotte hen, Chicago Coliseum, 1917. Owned by J. S. Pennington, Plainfield, Ill.



Rose Comb Brown Leghorn, winner at Chicago Coliseum, 1917. Owned by Thorobred Poultry Yards, Evansville, Ind.



Second prize White Wyandotte cock, Chicago Coliseum, 1917. Owned by John B. Greenan, Deckerville, Mich.



Buff Plymouth Rock cockerel, first prize, Kansas City, November, 1917. Owned by C. R. Baker, Abilene, Kansas.

Ration for Laying Hens.

Standard Poultry War Ration adopted by Connecticut, Massachusetts, New Jersey and Cornell.

The Government has recently issued a regulation prohibiting the use of more than 10% of any grade of wheat in rations for feeding poultry. To meet this requirement and at the same time observe the fundamentals for poultry rations, representatives from the poultry departments of several eastern colleges adopted the following ration:

GRAIN:

- 500 lbs. cr. corn, with a variation of 400-600 lbs.
 - 100 lbs. feed wheat, with no variation.
 - 200 lbs. barley, with variation of 100-300 lbs.
 - 200 lbs. heavy oats, with variation of 100-300 lbs.
- The scratch grain to contain not less than 10% protein, 68% carbohydrates

and 4% fat, and not more than 5% fiber.

MASH:

- 100 lbs. wheat bran.
- 100 lbs. wheat middlings.
- 100 lbs. corn meal, corn feed meal or hominy.
- 100 lbs. gluten feed.
- 100 lbs. ground heavy oats.
- 100 lbs. meat scrap.

The mash must contain not less than 20% protein, 58% carbohydrates and 5% fat and not more than 7% fiber.

Meat scrap should be fed as long as it is obtainable or skim milk or butter-milk used as a substitute.

FEEDING METHODS AND PRACTICE.

Amount: *Feed according to the appetite of the birds; no definite rule can be given.* Feed scantily of grain in the morning and give all the grain they will eat in the afternoon in time to find it before dark. There should be no grain in the litter at noon; when found, it

indicates feeding too much in the morning.

The mash is fed dry in hoppers open all day.

In general, feed by weight about equal parts of grain and mash.

Litter: Induce exercise by feeding all grain in dry, clean, straw litter, 6 to 8 inches deep. The common straws, in their order of desirability, are wheat, oat, barley, rye and buckwheat; shredded or cut corn stalks; shavings or leaves may be used where straw is not available. All feed and litter should be strictly sweet, clean and free from mustiness, mold or decay. Serious losses frequently occur from these sources due to the spores which may develop into fungus molds in the lungs or intestines.

Green Feed: A green range of alfalfa, clover or grass furnishes the ideal condition. When not available, feed mangel beets, cabbage, sprouted oats, or green clover at noon in such amounts as they will clean up before night. This will require about 25 to 30 lbs. per week for 100 hens. Decayed or frozen green feeds are a common source of digestive disorders. Apples, potatoes and corn silage will not replace mangels or cabbage, but apples in particular may be of value as a supplement.

Grit and Oyster Shell: Hard, sharp grit is necessary for grinding feed; oyster shell to supply lime for egg shells; neither will replace the other.

Water: 1 dozen eggs contains about 1 pint of water. Clean, fresh, pure water should be kept constantly before the hens and should be renewed at least once daily.

Moist Mash: Recommended only to hasten the development of late hatched pullets or to help in keeping up egg production of hens in late summer, especially those hens which are not to be used for breeders the following spring.

Breeds: This ration is recommended for all breeds but it is to be varied as to the method of feeding. In the case of heavier varieties, feed more scantily of grain in the morning and so encourage exercise.

Substitutes and Additions: *All substitutes or changes in the ration should be made gradually.*

Shrunken or feed wheat is recommended in place of milling wheat because the latter is high in price and needed for human consumption. In nutrient value, feed wheat is between milling wheat and wheat screenings.

Wheat screenings are often loaded with weed seeds and dirt, but good screenings may be used if the price is low enough.

Mustiness in feed wheat, wheat screenings or any feed may be detected by chewing a sample. Musty feeds are dangerous. (See Litter.)

Buttermilk or skimmed milk may be used in place of meat scrap, allowing about 12 to 14 quarts per 100 hens per day.

Green-cut bone is a very stimulating feed and should be used with care. It is not safe to feed unless it is fresh. If fed in amounts of about one-half ounce per hen per day, it may be used to replace half of the meat scrap.

Clover chaff, either dry or steamed, is relished by the hens and may be advantageously used to add variety to the ration



S. C. BLACK ORPINGTONS

A SPECIALTY

**GLENCO STRAIN
Chicago Coliseum Winners**

Sweepstakes Hen of the entire Heart of America Show at Kansas City. Sweepstakes Cockerel and Sweepstakes Pullet at Iowa State Fair, 1917. Other winnings at Chicago Coliseum, Kansas City, Omaha and Des Moines.

Hooverize—Keep a few Black Orpingtons to use your table scraps. I pay particular attention to egg production. Can supply size, type, color and vigor with heavy egg producers. Unretouched photograph is of my 2nd cockerel, at the Chicago Coliseum.

Write for circular. Baby Chicks at \$5 and \$10 per dozen.

DR. G. H. HUMPHREY · WOODBINE, IOWA
State Vice-President of the American Black Orpington Club.

TARBOX'S Silver Wyandottes, Red and Speckled Sussex

Win Another Great Victory—At the Chicago Coliseum Show, Dec., 1917, they won 10 firsts, 9 seconds, 10 thirds, 5 fourths and 3 fifths, winning more firsts than all our competitors combined. We showed 66 birds in all and only 5 that were not placed. We have about 1,200 of the above breeds for sale. We need the room and the money; if you need the birds we will make you prices that will please you. Write your wants and get catalog.

A. & E. TARBOX · Box A · YORKVILLE, ILL.



S. C. White Leghorns

Seven years of scientific breeding and trapnesting for eggs.

Best Laying Strain of Leghorns in the South

Reared under sanitary conditions on the largest, most modern and completely equipped farm in the State. We still have for sale a few choice Breeding Cockerels, Pullets and Yearling Hens from individuals with records up to 240 Eggs, at \$3.00 and up. Eggs for hatching at \$1.50 to \$10 per setting. Give us your orders early. "SATISFACTION ALWAYS." Catalog free.

FOURCHE MOUNTAIN POULTRY FARM, Cummins Ratcliffe, Owner, R. F. D. 11, Little Rock, Ark.



CHIC-CHIC-CHIC

YOUR HENS NEED CRY-S-CO. MORE EGGS AT LESS COST

Different from all other Grit. No additional Grit needed.

IF YOU WANT MORE EGGS AT LESS COST

99% PURE CARBONATE OF LIME. Better than Oyster Shells

ENDORSED BY LEADING A.P.A. MEMBERS AS WELL AS THOUSANDS OF POULTRY RAISERS.

WRITE FOR BOOKLET ASK YOUR DEALER

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W.A. NEUSITZ CO. ST. LOUIS, MO.

Carbo Steel Building Frames

for all light buildings. Side walls and roofs may be wood, brick, sheet iron, or concrete on ribbed reinforcement. Require no foundation. Anyone can erect quickly poultry houses, incubator houses, granaries, garages, sheds, etc.

Carbo Steel Post Co. Department F Chicago Heights, Ill.

Preventing Colds.

Colds in fowls are one of the most serious drawbacks to the poultry man. And it is a stern fact that most all flocks are more or less troubled with it. The buying of fowls for breeding purposes, or eggs for hatching is the way a good many flocks become infested with it, as many of the fowls bought for breeding have had in their past life a severe attack of cold and have been doctored up, and their offspring, unless extra precaution is taken, are sure to have colds, also many of the eggs bought for hatching have been laid by hens that in the fall of their first year have had a cold, and have been placed by their owners in the breeding pen, and by so doing many more flocks have been subject to the disease, and when once in a flock, whether introduced by buying stock or eggs, or by neglect of the poultry man, it is hard to get rid of. In the first place the saying that "an ounce of prevention is worth a pound of cure" is worthy of everyone's careful consideration, therefore I say be very careful that the fowls or eggs you buy are from parent stock that have not had a cold. But colds are not always bought. They are just as often got by our own neglect. If we have a perfectly healthy flock to start with, by a little neglect on our part we can soon have many cases of cold in our flock. But whether obtained by buying stock or eggs, or by neglect, it can be got rid of by using much care and a little medicine.

Don't make hothouse plants out of your poultry at any time of the year. What I mean by hothouse plants is, not to keep them in too warm and close quarters where they can't get sunshine, exercise and plenty of fresh air, as these are necessary to good health and a strong constitution. Have the roosting coop just warm enough that the fowls' combs won't freeze, and have a place where they can go in on cold snowy days just warm enough that with the exercise they get by scratching in the litter for their grain they can keep comfortable. Don't raise the young stock in small coops where they sweat and steam all night and in the morning when they are let out they stand around and chill and take cold. This is the greatest preventive for cold, in my estimation.

I have seen persons have a hen with a brood of twenty-five chicks in a coop two feet square. This won't do. The brood must not be too large. Twenty chicks is a great plenty with one hen and the coop must be large enough so they have plenty of room and fresh air, and as the chicks grow give them a larger coop. Some broods are kept in too small a coop till late in the fall, till the chicks have grown to such size that they must pile on top of each other to get in the coop, and they sweat and steam all night, and come out on the cold frosty ground in the morning and take cold.

Profitable Egg Producing.

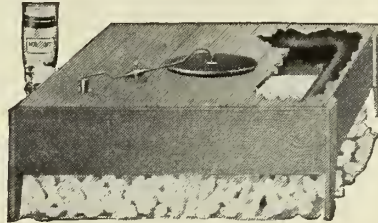
An experiment made at the New York State College of Agriculture, at Cornell University, provides some interesting and very valuable information on the production of eggs, through the use of different rations of feed with and without meat scrap and crushed oyster shells. This experiment was not conducted in the form of an egg laying contest, but was worked out for the pur-

Answer the call of Liberty!



and do your bit to "make the world safe for Democracy" by raising chickens in a

★ Liberty Colony Brooder ★



Liberty Colony Brooder

Thousands of Poultrymen, Farmers and others delighted with it. Daniel Sullivan, Staatsburg, N. Y., writes: "Have your Colony Brooder running—410 chicks under it. It's a splendid brooder. Work is much less than with coal stoves."

Requires only a few feet of lumber, a few joints of stove pipe. Equipment consisting of Sol-Hot Oil Lamp, Regulator and Brooder thermometer costs \$5.00, all charges paid.

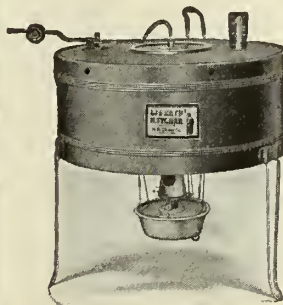
SOL HOT WICKLESS BLUE FLAME OIL GAS LAMP

burns coal oil, but by consuming about 95% air and 5% vapor from this inexpensive oil, produces a perfect blue and Sol-Hot flame. Equipped with new oil filter, safety shut-off, and automatic flame control. Leaves no residue, smoke or soot. No wick to trim—no danger.

The Sol-Hot Lamp is made in *three sizes*, and can be attached to any standard type of Incubator or Brooder.



★ Liberty Hatcher ★



Liberty Hatcher, Closed

Nest type, 70 egg and 100 egg capacity. Eggs held in circular rows by inclined rings in deep hatching tray. Chicks drop into nursery underneath as they hatch. Combined damper and flame regulation and construction of egg chamber gives uniform heat and saves fuel. Surplus heat and foul gases automatically escape. Easy to regulate—once regulated, automatic in action. Has standard first class equipment. Durable built—entire heating system welded by electricity. No solder used. Costs little, takes little space.

Try the Liberty Hatcher at our expense. Use it for one hatching. If not satisfactory, return it and money will be refunded.

Write for further details on our special Liberty Hatcher offer and for catalogue containing plans of Liberty Colony Brooder, 150 and 300 egg incubators, and detailed description and prices on Sol-Hot Lamp, Regulators, Burners, Lamps, Tanks, Heaters, etc.

H. M. Sheer Co. Dept. A Quincy, Ill.

Manufacturers of Incubators and Incubator Equipment for More Than 30 Years.

SECRETS of EXPERT EXHIBITORS

And Easy Lessons in Judging

By FRANK HECK

A BOOK that is new in character and the most valuable and interesting production ever published for breeders of exhibition fowls. No other book or similar publication comes within gunshot of it. It is in a class by itself.

The time has gone by when a breeder can pick up birds right out of the yards and win with them without special preparation. This is true even in the smaller shows. There are always at least a few hustling, enterprising breeders in nearly every locality who are keenly alive to the financial profit and the honors accruing from winning over all competitors. These breeders use all legitimate methods for putting their birds in show condition.

Faking and Legitimate Preparation, Both Laid Bare

Faking is certainly wrong and it should not be practiced, but even in legitimate show preparation what chance have you to win over one or more honest competitors who may have a copy of this book and thereby possess the knowledge which enables them to fix up their birds in scores of ways that are not known to you. Consider also the immense advantage you would have in being able to detect such forms of faking as can be discovered in cases where there may possibly be a dishonest exhibitor in the class.

All the methods, drugs, chemicals and various modes of preparing birds for the show room are fully explained.

You need the book to protect yourself against the dishonest fakir and you need it to put yourself on an equal footing with your honest competitors. It will save you dollars in useless entry fees, and it will show you how to win the coveted prizes and honors which your rivals would otherwise receive. The price of the book is

\$200

and it is worth the price. Have you ever bought a poultry book on general topics or disclosing some system or so-called secrets, and upon receipt of it had your expectations drop with a dull thud of disappointment? Well! this is not that kind of a book. *Don't put off sending your order. You need the book now. Address*

AMERICAN POULTRY JOURNAL
542 S. Dearborn St. Chicago, Ill.

Wouldn't You Like to Know

- How to Bring Out the Bright Red Color of Combs, Face and Wattles.
- How to Straighten Lopped Spikes or Blades of Combs.
- How Small Patches of White are Covered Up in Red Ear Lobes.
- How Back Plumage is "Fixed" to Reduce the Angle at the Tail and Give a Nicer Curve to the Back.
- How to Clean the Plumage of Parti-Colored Fowls for Show Without Washing.
- Removing Creaminess and Brassiness from White Birds.
- Covering Up Off-Color in Black Plumage, Including Purple Barring.
- How to Improve the Color of Any Parti-Colored Bird.
- How to Make a Bird of Its Own Accord Pose in the Show Coop.
- How to Add Lustre to Plumage of Dark Colored Fowls.
- How to Add Weight to Exhibition Birds Quickly.
- Coloring Yellow Legs.
- How Side Sprigs Are Removed Without Leaving a Scar.
- How Foreign Color is Removed from Beaks.
- How the Plumage of Red Birds is Treated to Secure a Darker Shade of Color and Lustre.
- How White Tips Are Sometimes Removed from Barred Rock Plumage.
- Removing Traces of Stubs Pulled from Legs.
- How Foreign Color is Removed from the Edges of Large Feathers.
- How Dark Streaks Are Removed from the Quill of White Feathers.
- How Unscrupulous Exhibitors Have Been Known to Prevent a Competitor's Birds from Showing Properly.
- Putting Birds in Show Condition That Have Missing or Broken Feathers in Main Tail or Wing.
- Preventing Purple Barring in Black Fowls.
- Preventing Show Room Growth and Lopping of Comb.
- How Feathers Are Spliced.
- Feeding to Produce a Darker Shade of Buff.
- How White Ear Lobes Are Treated for Small Defects in Color.
- A Frequent Cause of Large, Beefy and Lopped Combs and How to Prevent Them.
- How to Artificially Moulit Fowls in Nearly Half the Regular Time.
- How to Secure and Hold Profuse Toe and Leg Feathering on Feathered Legged Varieties.
- A Practically Unknown Cause of Lopped Combs and the Remedy.
- How to Prevent Light Colored Legs.
- How to Increase Gloss Sheen and Depth of Color in Moulting Male Birds.
- A Good Stimulant and Preventative of Colds in Birds Shipped to Shows in Extreme Cold Weather.
- How to Prevent Combs from Freezing When Birds Are Exposed.
- One of the Causes of Off-Colored Feathers in Parti-Colored and Black Fowls. How to Remedy the Defect.
- How Sickle Feathers Are Shortened Without Clipping the Ends.
- What to Feed to Promote Feather Growth.
- Tonic for Maintaining Health and Appetite in Show Birds and to Counteract the Effects of Confinement.
- Preventing Brassiness From Appearing in White Birds.
- How to Clean Paint From Birds That Have Come in Contact With Newly Painted Coops or Houses.
- How to Prevent Color Cuts on Plumage by Stopping the Flow of Blood From Comb, Wattles, Etc., When Injured in the Show Room.
- Complete Detailed Instruction for Washing and Chemically Bleaching White Birds.
- How Black or Gray Specks in White Plumage Are Hidden.

The above subjects are only a portion of the contents. There are many other equally interesting, important and valuable secrets, many of them being alone worth the price of the book. There are many seemingly "little" things that are of great importance and that you would never think of.

The Easy Lessons in Judging are also a feature of the book and will teach you the principles of scoring fowls.

pose of determining the egg producing value of the use of various combinations of chicken feeds, which the following record of the test will show:— 10 Leghorn hens composed the flock of each pen, and the experiment was run for 20 weeks. Pen 61 was fed the regular Cornell grain ration of cracked corn, wheat and oats and a mash feed of the following proportions:—Corn meal, 300 pounds; wheat midds, 300 pounds; wheat bran, 150 pounds; alfalfa meal, 50 pounds; oil meal, 50 pounds; meat scrap, 250 pounds; salt, 1 pound. This pen was also furnished oyster shell as well as grit and charcoal. During the 20 week period of the test, 313.54 pounds of food were consumed, costing \$4.51, yielding 508 eggs, valued at \$15.50, showing a profit of \$10.99 over the cost of the feed.

In this test, another pen, with the same number and breed of hens, and running the same length of time, was fed only the Cornell ration, with both meat scrap and oyster shell excluded. The consumption of food by flock of this pen, was 294.26 pounds, costing \$4.80; 137 eggs were produced, valued at \$4.45, showing a profit of only 37c over the cost of the feed.

This experiment shows rather strikingly the value of the use of meat and oyster shell in the ration of a laying hen, as the two pens fed no meat or shell were the two poorest producing pens of the test and the two which made the least profit over feed.

A Little Friendly Advice.

Friend "Dad":

As I have promised you a setting of eggs to give you a little start in the Standard-bred poultry game, I think a resume of my experiences will not come amiss.

To make some comparisons I will hark back to the time when you and I had just reached our majority and were so imbued with the trotting horse bug that we hardly had time for anything else. How we used to haunt the old fair ground at home and listen to the wonderful tales of speed that were dished up there. How we schemed to buy those two colts of "Shorty" Crenshaw, and what world beaters they were going to be. How we used to visit our mutual friend, Old Ben, and listen to the wonderful qualities of "Black Bell." "The fastest mare that ever wore a halter," to hear him tell it, and how we watched "Black Bell" go down to defeat in the 30 trot at the county fair, not only defeated but was way back at the 7/8 pole when the winner went under the wire in the fast time of 2:40, but Old Ben never for a minute lost faith in his mare, he had read the "excuse book" and had an alibi.

Black Bell or her ancestors did not have the blood in their veins to make 2:10 trotters. It is the same in the chicken game. We have 2:10ers in the chicken game too, that is hens that lay two-hundred-and-ten eggs or more a year, but if they do not have the blood back of them, it is useless to expect 2:10ers in your flock.

While I still love the trotter, my finances would not allow me to ever hope to own or breed a 2:10 trotter, therefore I looked around, and always having more or less to do at home with mother's flock of just chickens, when I moved to Clinton our next door neighbor who had the chicken fever

Start in the Poultry Business \$38⁸⁰
with our complete outfit — everything you need for

We will start you right in the poultry business for the small sum of \$38.80. Everything you need, no bother of running around to several places to purchase different articles — you get them all at one time here.



Baby Chix

Our baby chix are strong, vigorous and true to name, full count guaranteed.

- 100 BABY CHICKS (any variety shown in next column) \$18.00
- 1 QUEEN Brooder Stove (500 capacity) 17.50
- 14 lb. Buttermilk Starting Food 1.20
- 25 lb. Fine Chick Feed 1.50
- 2 Star Jar Founts25
- 1 No. 12 Round Baby-Chick Feeder35

Order complete or any part of it, at the above named prices. \$38.80

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- Barred Rocks \$18.00
- Rhode Island Reds 18.00
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Send for our complete catalog of poultry supplies

THE W. W. BARNARD CO. 231 W. Madison Street Chicago, Illinois

Kendall White Orpingtons

**Won at Chicago Coliseum Show, Dec., 1917
Six Prizes on Ten Entries!!**

In the strongest kind of competition. This winning, together with past records, places the Kendall White Orpingtons in the front rank. A grand lot of birds for sale at prices anyone can afford to pay for good stock. Let me quote you prices. I can please you or no sale.

KENDALL ORPINGTON FARM H. F. KENDALL VIRGINIA, MINN.
Proprietor

Sensational Wins in Red Sussex

On five birds entered at Hamilton we won First Cockerel, First Hen, First, Second and Third Pullet. On thirteen birds entered at Guelph we won First, Second, Third and Fourth Hen, First, Second, Third and Fourth Pullet, First and Second Cockerel, Second and Fourth Cock. These birds were all from Mr. F. L. Pratt's stock and always won for him, and will continue to win for their new owner.

Thirty Cockerels and Pullets, Ten Yearling Hens for sale.

Write for our special offers for January and February

Kam Poultry Yard, 563 S. Syndicate Ave., Fort William, Ont., Can.

S. C. White Leghorns, Light Brahmas and Rouen Ducks

Free range on farm, well developed. Very low price on Leghorn Cockerels. Have Rouens fit for any show.

C. C. NYE R. R. 1, Box A HARRISTOWN, ILL.



Show Records **never** will win this war. We must have plenty of meat and eggs.

Cook's TRAP-NESTED Wh. Plymouth Rocks

will give you both, as they are bred for mammoth size and heavy egg production as well as fine specimens. Am booking orders now for baby chicks and hatching eggs. Mating list free.

A. E. COOK - 5200 Harvard - Cleveland, Ohio

Bred to-lay White Wyandottes

Official Pen average 245 eggs. Made in National Egg-laying Contest at Mountain Grove, Mo., in 1916-17. Highest pen average ever made in United States by an American entry, all breeds competing. Only one other pen has ever equaled this remarkable average — they were from England and were of same strain as my birds. Eggs from this pen, \$10 per 14; others \$5 and \$3 per 14; cockerels \$3 and \$5.

J. F. JORDAN - CRANE, MISSOURI

MAHOGANY STRAIN REDS

Winners at New York and Boston shows. Excellent exhibition and breeding stock at low prices. Write

B. QUACKENBUSH :: Box 401 :: DARIEN, CONN.

Rose Comb Rhode Island Reds

Ten years of scientific breeding for eggs and beauty has created us a valuable and an ideal strain. They are record egg producers, dark, even glowing red color. Perfect in carriage, type and size. Cocks or cockerels on approval, \$8 to \$16. Archibald's Poultry and Fruit Farm, R. D. 3, Clyde, Ohio

right, soon had me inoculated to the extent that I ordered a pen (four pullets and a cockerel) of White Wyandottes, of a noted breeder, not show birds, just utility stock, at a price that I thought a lot of money for chickens, at that time. I was doomed to disappointment in this purchase, in that, I will always think, the cockerel was a capon. I have often regretted that I was unable to find this out, for the reason I was taken sick and went to the hospital and when I was better my wife had sold the flock.

For the next two years I did not work to any great extent as I was regaining my health. My mother at this time had ten S. C. Brown Leghorn pullets and a cockerel, of a strain that was in the front rank at that time. I had not lost faith in my chosen breed and bought ten White Wyandotte pullets and a cockerel of a breeder in Illinois, utility stock of a laying strain. I immediately made over the trotter's stall into a coop for my coming hens, also built a yard, keeping the two breeds separate. The reputation of the Leghorns as layers was beyond reproach, but as events turned out, their colors were lowered by the Wyandottes. These two flocks were fed exactly alike, in that when we fed one flock the feed was divided equally. An

\$3 profit per hen per year

is what I made last year with 400 hens and pullets because we have bred the "lay" into our

S. C. W. "Lay"ghorns

Our stock has been highly praised by prominent poultry authorities. We have more birds than we will need in our breeding pens for the coming season, so in order to move the surplus quickly we are offering breeding hens with records of 160 to 200 eggs at \$3 each. Higher record birds a matter of correspondence, also a few cockerels for sale. Write me your wants. I have the stock and can please you.

EMORY H. BARTLETT Box 19 ENFIELD, MASS.

accurate record was kept of the two flocks and the Wyandottes not only laid more eggs than the Leghorns, but the eggs weighed more to the dozen. Right here, let me say eggs should be sold by weight instead of by the dozen.

Mother saw the good qualities of my birds and disposed of the Leghorns. The Wyandotte qualities did not stop at filling the egg basket, but when we wanted chicken for dinner we did not have to kill two or three to make a meal, and one of the nice plump Wyandottes was sufficient.

Now, Dad, the essential feature of the chicken business, like all other business, is to get a foundation not only of stock, but of knowledge, therefore now is the time for you, a beginner, to subscribe for a poultry journal and read and digest all the good things that appear each month. I have been a subscriber for several in the last few years and at this time have sifted them down to one. This one I will recommend to you. It is the AMERICAN POULTRY JOURNAL, printed at Chicago. I like it the best for the reason it is a Western paper, carrying the ads of breeders that are not very far away, should a person in this country see fit to buy eggs or stock. As an advertising medium it goes into all sections of this as well as foreign countries.

You will make no mistake in subscribing for this journal, as you get the news first-hand.

Before you are in need of a coop to keep your chicks in, I will write you how I house mine, also how I handle both old and young birds, how and what I feed, and care in general.

Lastly, I want to impress on your mind most emphatically that if the birds you raise from these eggs do not suit you in any way, do not mix the strain or you will undo what it has taken one of the most prominent White Wyandotte breeders years to accomplish.

I do not mean myself when I say "one of the most prominent White

Wyandotte breeders"—I mean the man of whom I bought my foundation stock. I hope to be prominent, some day, in the poultry world.
E. S. HOLM.

Why Incubator Chicks Die in the Shell.

There seem to be wide and varied opinions as to why chicks die in the shell. Many claim, which is true in a sense, that the germ is weak, caused by too close inbreeding. It is true also that we find weak germs at times when the parent stock is not related.

Too close confinement, with little or no exercise, or improper feeding will also cause chicks to die in the shell, the germ not being strong enough to withstand the various changes during incubation.

The writer is fully convinced after many careful demonstrations that while the above causes are partially true, the main cause is improper ventilation, so that chicks suffocate from insufficient air. The ventilation of almost all makes of incubators remains practically the same from the beginning to the end of the hatch, and while this ventilation may be just right at some stage of the hatch, it certainly is not right all the way thru. If the proper amount of air passes thru at the beginning of the hatch, the ventilators being of a given and stationary size, then as the chick grows it must have a greater amount of air, and if it is not forthcoming suffocation follows.

The system of ventilation in incubators of today is such as to cause a draft, drying the eggs too fast, causing the membrane of lining beneath the shell of the egg to become tough, so much so that at hatching time the chick is unable to break thru, many even dying in the shell after being pipped, whereas if this membrane should be kept soft and brittle, as when fresh laid, the chick would easily have picked its way out.

"A Chick in the Hand is Worth Three in the Shell"

You can buy Chicks this season from the ORIGINAL

SCRANTON S. C. REDS



In response to popular demand and in line with our desire to give our customers fullest measure of satisfaction, we shall offer for the season of 1918 day-old chicks, as well as eggs from twenty superb matings—a real line-bred flock—winners in America's leading shows—producing each year outstanding quality in type, color, size, vigor and laying ability.

CHICKS—\$12 to \$35 per twenty-five, \$20 to \$60 per fifty, \$35 to \$75 per hundred. Ready to start growing lustily and become richly colored exhibition and useful Reds.

EGGS—\$3, \$5 and \$10 per fifteen, \$6, \$8 and \$18 per thirty, \$10, \$15 and \$30 per fifty, \$18 and \$25 per hundred. Everyone guaranteed new-laid and fertile, clears replaced, and if you wish to do your own hatching the surest promise of your ultimate satisfaction.

Our "Red Quills," the original Scranton S. C. Reds, are generally conceded to be the strain that most nearly approaches the desired combination of type, color, size, quick growth and laying ability. A prominent eastern fancier and pioneer breeder of Reds said of them: "It is the one truly line-bred strain in America." Why not stamp these qualities and the ability to reproduce them on your flock? Get your winners the way the other fellow gets his. Take advantage of the world-wide fame of these original Scranton Reds to get your share of the best sales.

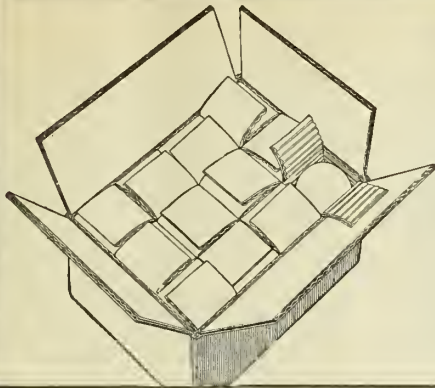
Send today for baby chick and egg circular. Better still, get your order booked now direct from this ad and insure prompt and early delivery.

Remember, only the best wins. There is but one best. Get the "Red Quills" original Scranton S. C. Reds and be convinced.

RAU and FRY Route P Box 333-A INDIANAPOLIS, IND.

RUDY'S Perfection White WYANDOTTES

New Andrews Egg Carrier



Take a look at this carrier. See the protection around every egg. On all sides every egg is protected by double thick corrugated cushions. And on the ends notice the three thicknesses of corrugated cushions. Plus all that protection, the box itself is a heavy waterproof board and there's a corrugated wall between the box and the eggs. How's that for insuring safe delivery of your eggs?

Shipped flat. Easily put together. Can be used many times. Made in both Commercial and Hatching sizes. Here are the prices.

Commercial				Hatching	
1 dozen size,	\$.60	4 dozen size,	\$1.55	15 egg size,	\$1.10
2 " "	.95	5 " "	1.85	30 " "	1.95
3 " "	1.25	10 " "	3.60	50 " "	2.60
				100 " "	4.90

Use these Appliances and Get the Big Profits

Getting maximum profits from poultry is largely a matter of using up-to-date appliances and keeping your fowls happy. I've proved that to my own satisfaction and also to the satisfaction of wise poultrymen everywhere. No odds whether you are a poultry fancier or a commercial poultryman, this rule holds good.

Look at the poultry appliances shown here. Every one of them will help send your profits shooting toward the top-mark. If any one of them doesn't do the job better than any other you've ever tried, shoot it back and I'll refund your money. That's the way I like to be done by and therefore I always do the same by my brother poultrymen.

I've a book on poultry that is worth dollars in your pocket because it hands out such valuable information. Send for it. Ask for my "Poultryman's Text Book." It's sent free.



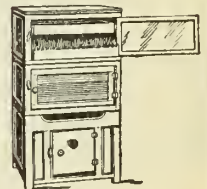
THE O. B. ANDREWS COMPANY, Box A, Chattanooga, Tenn.
 "The World's Largest Poultry Specialty Manufacturers." All of our articles for sale by dealers throughout the country.

Buy Direct From Me—Save Money

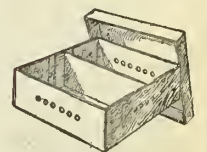
Send me your order. Freight prepaid on shipments of 100 pounds in weight or \$10.00 in value.



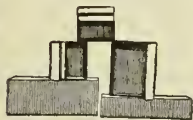
Efficiency Koop
 No hammer—no nails. Saves money in first cost, express cost and can be used over and over again.



Oat Sprouter
 Outer walls of wood lined with asbestos and galvanized tin.



Baby Chick Carrier
 No gluing, no tying— all one piece. Shipped knocked down.



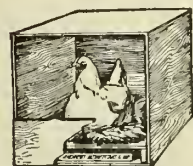
Parcel Post Butter Boxes
 Strong but light. All sizes, lowest prices.



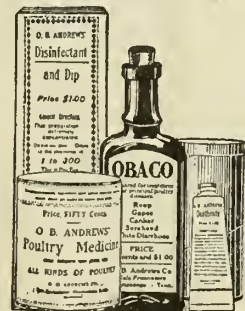
Egg Trays
 Can be stacked as shown. Price 50c each



Koop de Luxe
 For show birds. No crumpled feathers— no damaged combs.



Andrews Mite-Proof Nest
 Mites and lice can't bother the hen. Gets more eggs by keeping your fowl contented.



Price List: Obaco, 50c and \$1 per bottle; Deathmite, 50c and \$1 per tube; Poultry Medicine, 50c and \$1 per can; Disinfectant and Dip, \$1 per bottle.

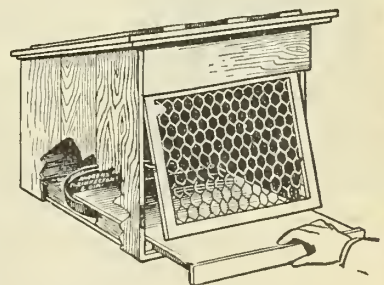


"I think OBACO, the 'miracle medicine,' is the most wonderful poultry remedy in the world. It cures Roup, Gapes, Canker, Sorehead, White Diarrhea, by inoculation. My other remedies keep your chicks in fine condition. Deathmite is a sure cure for mites, insects, etc. No poultryman should ever be without my Medicine Cabinet."

O. B. Andrews, Pres.

Andrews Sanitary Brood Koop

Removable false bottom, beneath which, if a pan of Andrews Disinfectant is placed, absolute freedom from lice and mites is secured. Removable top. Designed for one hen and brood.



Just What You Will Need This Winter

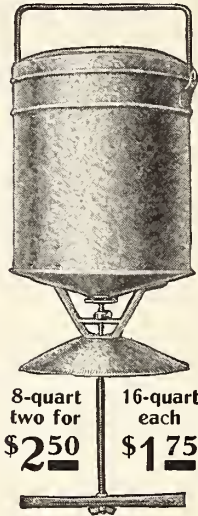
This is the FAULTLESS Automatic Feeder

All you have to do is to fill the can of this feeder with wheat, corn, oats or any other kind of feed, either mixed or separate. When the chickens are hungry they peck at the cross bar; this causes some feed to drop to the ground where the chickens can pick it up. No feed spoils or is eaten by rats or sparrows. **You can save enough feed in one month to pay for these feeders.** Besides the saving of feed, you save work.

Here Are Our Low Prices

This feeder holds $\frac{1}{2}$ bushel of feed. It is made of heavy rust-proof material. It weighs six pounds packed for shipping. **Order by No. 153.**

And What is More, we will send you two 8-quart feeders, same style as above, both for \$2.50. These two feeders weigh nine pounds and will not be sold singly. **Order by No. 152.**



Here is the Feeder for Your Low Coop

Or for Your Baby Chicks



It holds five quarts, will feed any kind of feed, either mixed or separate. It is built on the principle of the large **FAULTLESS Feeder** and is furnished complete with bracket, which can be attached to the wall or side of a coop at proper height. This feeder is beautifully painted and with ordinary care it will last forever. It is guaranteed to feed your stock perfectly from the time the chicks are able to eat until ready for the axe. We sell this feeder for \$1.00. It weighs $3\frac{1}{2}$ pounds when packed. Get one today and feed your chickens right. **Order by No. 151.**

We carry a full line of poultry appliances and remedies. We also manufacture the well known Simplex Genuine Feather Brooders and Hovers—both heated and fireless. Send for our CATALOG; it will interest you.

SIMPLEX SUPPLY HOUSE, Pontiax Bldg., CHICAGO, ILLINOIS

FEED COST OF PRODUCING EGGS.

What Records of Cost at the Government Poultry Farm Show for Leghorn and General-Purpose Breeds.

THE cost of feed for producing eggs with pullets and yearling hens, both from Leghorns and from general-purpose breeds, in the experiments on the United States Department of Agriculture farm, Beltsville, Md., during the past year, even with the high price of grains, has been considerably lower than the price received for near-by fresh eggs.

Leghorn pullets ate an average of 4.8 pounds of feed in producing a dozen eggs. The feed costs on an average 12.9 cents per dozen eggs produced by the flock. The cost of feed per dozen eggs varied from 9.2 cents in July to 41.4 cents in November, when, during the moulting season, the flock continued to eat, but, of course, produced fewest eggs. The number of pounds and the cost of the feed consumed per dozen eggs for each four-week period during the year were as follows, beginning December first: Pounds of feed: 5.3, 6.6, 5.4, 4.7, 3.3, 3.0, 3.0, 3.2, 4.9, 4.8, 8.6, 10.9, and 18.4; cost of feed: 12.0, 16.4, 13.7, 13.5, 10.3, 10.0, 10.0, 10.0, 9.2, 9.2, 16.8, 22.4, and 41.4 cents.

Leghorn yearling hens ate on an average 5.5 pounds of feed per dozen eggs produced. The average cost of feed per dozen eggs produced by the flock was 14 cents. The cost of feed per dozen eggs varied from 7.3 cents in July to 266.3 (\$2,663) in November (moulting period). The number of pounds and the cost of the feed consumed per dozen eggs produced by the flock for each four-week period beginning December first were as follows: Pounds of feed: 20.3, 10.0, 5.8, 5.1, 3.6, 3.3, 3.4, 3.9, 5.3, 7.1, 30.8, and 118.7; cost of feed: 45.9, 24.8, 14.7, 14.7, 11.1, 11.0, 10.6, 7.3, 10.1, 13.9, 64.3, and 266.3 cents.

GENERAL PURPOSE BREEDS.

The general-purpose breeds ate considerably more feed than the Leghorns, the pullets consuming an average of 6.7 pounds of feed and the yearling hens 9.6 pounds in the production of a dozen eggs. The feed cost averaged 16.75 cents per dozen eggs for the pullets, varying from 11.7 to 28.9 cents; and for the yearlings averaged 24.5 cents, ranging from 13.9 to 81.3 cents. The number of pounds and the cost of the feed consumed by the pullets in producing a dozen eggs for each four-week period beginning November first were as follows: Pounds of feed: 10.9, 7.4, 10.9, 5.5, 5.8, 4.6, 4.4, 4.7, 4.7, 6.3, 6.9, 9.2, and 14.1; cost of feed: 24.4, 16.8, 27.1, 14.0, 16.6, 14.3, 14.7, 15.6, 14.7, 11.7, 13.2, 17.9, and 28.9.

For the general-purpose yearling hens, the amounts per dozen eggs were as follows: Pounds of feed: 34.6, 32.9, 32.7, 12.6, 8.5, 5.7, 5.3, 6.1, 6.4, 7.5, 7.6, 10.0, and 21.0; cost of feed: 77.7, 74.5, 81.3, 32.0, 24.5, 17.7, 17.7, 20.3, 20.0, 13.9, 14.5, 19.5, and 43.1 cents.

The average cost of the mash and of the scratch mixture per 100 pounds for each month, beginning in July, 1916, was as follows: Mash: \$1.82, 1.85, 1.88, 2.02, 2.19, 2.24, 2.33, 2.42, 2.70, 2.96, 2.98, and 2.84; scratch mixture: \$1.90, 1.98, 2.03, 2.09, 2.30, 2.29, 2.64, 2.66, 3.05, 3.25, 3.68, and 3.41. The cost of the feed

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used in producing eggs can be figured from the amount of feed required to make a dozen eggs at different periods throught the year, or feed prices may be compared with those used in this work.

(NOTE—The above figures are interesting, tho not conclusive, they give results with test flocks. With other flocks and under different conditions the results might be very different. It should be remembered that these cost figures represent only the cost of feed consumed by a given flock, of hens or pullets, while producing a dozen eggs. They do not show the actual cost of producing a dozen eggs and do not include any other expenses outside of bare feed cost. They are based on feed prices prior to and including November, 1916. Since that time we have experienced an increase in feed prices above the highest figures quoted, amounting to over 38 per cent. It is interesting to note in the feed cost given for November (the moulting period in this case) that one flock consumed \$2.663 worth of feed for every dozen eggs produced. From personal observation at the government farm we should say that the overhead and labor actually included in the actual care of these experimental flocks—and the capital invested in houses, fowls, and equipment—is not materially greater than that on the average poultry plant for the same size flocks. Therefore it is unfortunate that our government experts do not conduct their experiments according to accepted business methods of cost accounting and give us the results in actual net cost of producing a dozen eggs at different periods, including all expenses.—Editor A. P. J.)

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WINNINGS of A. P. J. ADVERTISERS

This column is open to all American Poultry Journal display advertisers and is compiled from information furnished by the advertiser. Complete winnings of all exhibitors at the larger poultry shows as New York, Chicago, Boston, etc., are published in the issue following the show dates, together with a report of the show by an American Poultry Journal representative.

Hillview Farm, Lincoln, Mo., reports the following winnings on its S. C. White Leghorns at the National Leghorn Show, Columbus, Ohio, November 28 to December 3, 1917: 1-2 cocks, 1-5 hens, 5 cockerel, 1-2-3 pullets, 2 old pen, 1 young pen, cup for best bird in show, best female head in show, best male head in show, best S. C. White Leghorn pullet, best display S. C. White Leghorns.

R. M. Seward, Lewistown, Ill., reports the following winnings on his Buff Orpingtons: At Lewistown, Ill., 1 pen, 1-3 hens, 3 pullet, 2 cock. At Monticello, Ill., 1-2 cockerels, 2 pen, 2 hen. At Atlantic, Ill., 1 pen, 1 cock, 1-2 hens, 2 cockerel, 2 pullet. At Delavan, 1 pen, 1-2 cockerels, 1 pullet, 1-2 hens. At Springfield, 1-2 pens, 3 hen.

A. & E. Tarbox, Yorkville, Ill., report the following: At Illinois State Fair, Springfield, September 7-15, 1917—Silver Wyandottes, 1 cock, 1 hen, 1 pullet, 4 cockerel, 1 old pen, 1 young pen. Speckled Sussex, 1 cock, 1 hen, 1 cockerel, 1 pullet. Red Sussex, 1 cock, 1 hen, 1 chl, 1 pullet. Iowa State Fair, Des Moines, August 22-31, 1917—Silver Wyandottes, 1 cock, 2 hen, 2 old pen, 1 young pen. Speckled Sussex, 1 cock, 2 hen, 1 chl, 1 pullet, 1 old pen, 1 young pen. Red Sussex, 1 cock, 1 hen, 1 cockerel, 1 pullet, 1 young pen. Wis-

consin State Fair, Milwaukee, September 10-15, 1917—Silver Wyandottes, 1 cock, 2 hen, 1 cockerel, 1 pullet, 1 old pen, 1 young pen. Speckled Sussex, 1 cock, 1 hen, 1 cockerel, 1 pullet. Red Sussex, 1 cock, 1 hen, 1 cockerel, 1 pullet. Texas State Fair, Dallas, October 13-28, 1917. Speckled Sussex, 1 cock, 1 hen, 1 cockerel, 1 pullet. Red Sussex, 1 cock, 1 hen, 1 cockerel, 1 pullet.

Wilburtha Poultry Farms, Trenton Junction, N. J., report the following winnings: At Wilmington, Del., on White Leghorns, 1 cock, 1 hen, 1 pullet, 1 cockerel. Governor's cup for best bird in show. On White Plymouth Rocks, 1 cock, 1 hen, 1 cockerel. On Rhode Island Reds, 2-3 cock, 1-2-3 cockerel, 3-4 pullet, 1 pen, best display.

H. R. Stevens, Hymera, Ind., reports the following winnings on his White Wyandottes at the Terre Haute Show, December, 1917: 1 cock, 1 hen, 1-2-3-4-5 cockerel, 1-2 pullet.

U. R. Fishel, Hope, Ind., reports the following winnings on his White Plymouth Rocks at the Chicago Coliseum Show, December, 1917: 1-3-5-6 cocks, 1-2-3-5 hens, 1-2-3-4 cockerels, 1-2-4 pullets, 1-2 old pens, 1-3 young pens, grant silver cup for best exhibit.

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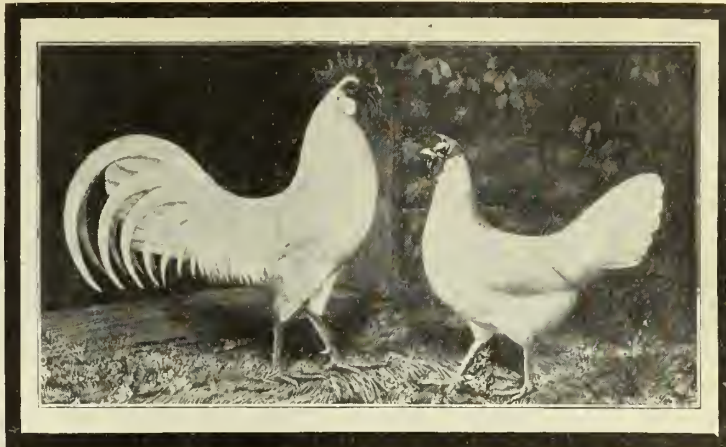


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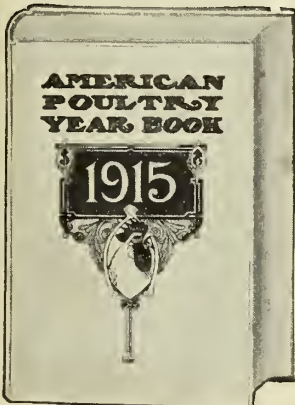
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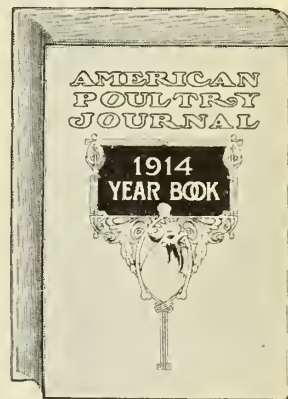
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WHITE CORNISH—Royal strain; choice cockerels for sale cheap. Springbranch Poultry Farm, Bellville, Ohio. 1-3

DARK CORNISH—Cockerels and pullets for sale. Prices reasonable. Bigelow-Lawrence Poultry Farm, Medina, Ohio. 1-2

DARK CORNISH FOR SALE—Floyd Stortment, Salem, Ill. 1

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MOHAWK STRAIN DARK Cornish—Massive, low, broad; won gold special for weight 1916 Kentucky Club Show. Eggs now ready, \$10 per dozen. Frank R. Willis, 737 E. Burnett, Louisville, Ky. 12-2

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DORKINGS — SILVER GRAY cockerels for sale, exhibition and breeding stock; Westfall strain. Eugene Cooper, Yale, Mich. 1

EGGS AT HALF PRICE — \$2.00 per 13, \$3.50 per 26. From Westfall's champion Silver Gray Dorkings. No reserve. More first prizes, silver cups and specials at New York, Boston and Buffalo than all competitors combined. These are the chicks that grow two pounds at two months. A few choico birds for sale. No baby chicks. Watson Westfall, Sayre, Pa. 2-17-lyr

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IF YOU WANT an excellent Silver Spangled Hamburg cockerel, with good deep diamonds, I have them at \$3 each, two for \$5. Warren Hockenberry, Byesville, Ohio, R. 1. 1-3

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WRITE H. MERRIAM, Ashburnham, Mass., if you want a good Houdan cockerel. 12-2

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TOM BARRON Single Comb White Leghorns. Free catalog shows lifelike pictures of our long, deep bodied, big combed thoroughbreds from Barron's 1914 Storrs contest prize pen mated to imported 278-232 egg pedigree males; positively the highest egg record Leghorns he ever sent to America. Hatching eggs, \$7; chicks, \$15 per hundred. Northland Leghorn Yards, Grand Rapids, Mich. 1-3

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15 CHOICE ROSE Comb Buff Leghorn cockerels for sale; 7 at \$3; 5 at \$5; 3 at \$7; \$55 takes all; egg orders booked; setting, \$3. Fred Luebbe, Watertown, Wis. 1-3

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S. C. BUFF LEGHORNS—Dr. Heasley's strain pure Cocks, Hens, Cockerels and Pullets for sale; get a male or a few females to introduce new blood. Aug. D. Arnold, Dillsburg, Pa. 1

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SINGLE COMB BUFF Leghorns at reasonable prices, as I need the room. Grand cockerels at \$3, \$5 and \$7. My birds are undisputed champions of the South. Satisfaction guaranteed. J. Wirron Willson, Spartanburg, S. C. 12-2

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EGG-BRED SINGLE COMB Buff Leghorns. Exhibition quality. Few grand breeders and winners. Prices right. Lea Munger, De Kalb, Illinois. 12-1

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SPECIAL SALE, 200 early hatched S. C. W. and Buff Leghorn pullets, cockerels, \$15 to \$2.50 each. Winter layers. Choice stock. Order now. H. A. Smith, Washburn, Wis. 1

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BUFF MINORCAS—Stock bought from Edward F. Schmidt, Hazelrigg, Ind. Eggs, 15 for \$2.00. Fred P. Dietz, Mt. Vernon, Ind. 11-1

BUFF MINORCAS—See display ad page 91. Walhalla Poultry Farm. 6-9

WHITE MINORCAS

RICKLAND POULTRY YARD, Waynesville, North Carolina, single comb White Minorcas exclusively; eggs, \$2; cockerels, 1-4

MEISELBACH'S SINGLE AND ROSE Comb White Minorcas; won at the great Coliseum show, 1917, 5 firsts, one third prize. Choice stock for sale; egg orders booked now. Harry Meiselbach, Melrose Park, Ill. 1-3

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WELLS STRAIN, BIG BONE, long back, stay-white hens, cockerels, pullets, from our winners. Eggs \$2.50, \$5, \$10; utility \$10 hundred. Wells & Wells, Muskogee, Okla. 12-2

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BLUE ORPINGTON Cocks and cockerels for sale; \$3 and \$5. Jess Jessen, Strawberry Point, Iowa. 1

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BUFF ORPINGTONS—Seventeen years a Breeder. Best Exhibition Egg Producing Strain. Eggs or Baby Chicks. Circular free. Will Schadt, Goshen, Ind. 1-4

BUFF ORPINGTONS for sale—Fifty pullets and five cockerels. Fine breeding stock. A. T. Marker, Greenville, Ohio. 1

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S. C. BUFF ORPINGTONS—Cockerels, \$3 and up. Pullets, \$2 and up. Eggs in season. Albert Smith, Sheldon, Ia. 12-2

BUFF ORPINGTON COCKERELS—Early hatched, from line-bred heavy laying stock. Excellent in shape and color. J. B. Haganman, North Branch, Mich. 11-1

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BLACK ORPINGTONS FOR SALE—Write your wants. Prices reasonable. Satisfaction guaranteed. P. M. Chapin, Alma Center, Wis. 12-2

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FULL ENGLISH SINGLE Comb White Orpington hens; pullets; immense fine formed; rare bargains to close. Pherson, Bainbridge, Ind. 1

CLOSING OUT SALE—S. C. White Orpingtons, pullets, hens and cockerels, \$2 to \$3 each; 12 pullets and one cock for \$25. G. Keller, Mountain Home, Ark. 1-3

WHITE ORPINGTONS—Three birds entered at Missouri State Fair and won 1st, 2nd and 3rd hens in good competition. Cockerel for sale at bargain price. Satisfaction guaranteed. Henry Brockschmidt, Freistatt, Mo. 1-2

PRIZE WINNING SINGLE Comb White Orpingtons; great layers; eggs, \$1.50 to \$5; chicks, 25 for \$5; cockerels for sale. W. A. Burris, Bluffton, Ind. 1-3

EGG-BRED COCKERELS—Great, massive, broad-backed fellows; extra heavy bone and pure in color; guaranteed to please birds, \$5. T. P. Dougherty, Route A102, Tyrone, Pa. 1

ORPINGTON S. C. W.—Direct Keller-strass breeding, fine choice cockerels, \$5 each; 2 cockerels, \$8.50; trios, 1 cockerel and 2 hens, \$2.50. J. F. Miller, Latimer, Iowa. 1

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SINGLE COMB REDS—Scranton Strain direct. Reasonable prices. Write your wants. B. S. Long, Little Slou, Ia. 11-1

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RHODE ISLAND WHITES—Single Comb; correct shape. They are white! Stock for sale. Satisfaction guaranteed or money back. C. A. Wheeler, Cuba, N. Y. 1-2

HEADQUARTERS FOR ROSE Comb Rhode Island Whites. I am the oldest Breeder of this breed. Eggs and stock for sale from this wonderful laying strain. Catalog free. C. A. Foster, Colonial Poultry Yards, Akron, Ohio. 1-6

STOCK FOR SALE—From the great Rhode Island White farm; \$2 each; \$6 per trio; \$10 per pen; both combs. Henry Eichelmann, Waterloo, Ill. 1-3

PATRICK'S RHODE ISLAND Whites won the blues in competition with the best Whites in the world. Write for circular. J. T. Patrick, R. 4, N. Vernon, Ind. 1-3

"WHITE QUEEN" HEAVY layers—Rhode Island White, rose comb yearling hens, \$2, \$3; also cocks, pullets, cockerels, both combs, \$3, \$5, upwards. Fred Havig, R. 2A, Osage, Iowa. 1

ROSE COMB RHODE ISLAND White cockerels from prize winning stock, \$2, \$3, \$5. Col. Warren Russell, Winfield, Kas. 12-2

COOK'S PARAMOUNT STRAIN R. I. Whites—Both combs. Stock, eggs, baby chicks. Best winter laying strain. Catalog free. Mrs. Ernest Cook, Route 8, Ceclilia, Ky. 11-1

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E. B. THOMPSON'S RINGLETS, direct pullet matings. Both sexes, \$2 to \$3.50. Amos A. Hieser, Fisher, Ill. 1

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E. B. THOMPSON'S Ringlets direct. Extra choice cockerels and females, big vigorous stock; bred from winners; best New York winning blood from proven breeders. Have spared neither pains nor money. William Huckle, Waverly, N. Y. 11-1

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PARKS' STRAIN COCKERELS—Early hatched. Beautifully marked. Full of pep. Carefully selected. A. Amidon, 6041 South Winchester Ave., Englewood, Chicago, Ill. 11-1

FINE LARGE RINGLET Barred Rock cockerels and yearling hens for sale. Price, \$1.50 to \$5.00 each. V. I. Hostetler, R. 5, Nappanee, Ind. 11-1

BEAUTIFUL BRED-TO-LAY Barred Rocks, Parks' strain exclusively (from best pens direct). Large boned, vigorous stock. Eggs, 15, \$2; 30, \$3.50; 50, \$5; 100, \$9. Cockerels, \$3, \$4, \$5 each. W. G. Meradith, Danvers, Ill. 1-3

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SPECIAL VALUE BARRED Rock cockerels, \$2, \$3. Superb quality, \$5. Birds that will please. Your satisfaction guaranteed by approval-shipment plan. Clarence Steckel, White Hall, Ill. 1-3

PARKS' BARRED ROCKS—Prize-winning trap-nested 210-egg-bred for beauty, size, egg-laying power. If you want delicious early fries, heavy layers and handsome breeders and be satisfied, order my hatchable eggs; 15, \$2; 100, \$10; hivable chicks, 20c; cockerels, \$3. Write Elizabeth Woodmansee, Highland, Ohio, today for folder. 1

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BUFF ROCKS—LEADING winners at Chicago and St. Paul, 1917. 100 splendid cockerels for sale, all shipped on approval. Breeding or exhibition quality. Frank W. Kramer, Fort Atkinson, Wisconsin. 12-2

HEISER'S ALL-GOLD strain Buff Rocks of quality, at \$2, \$3, \$5 and \$10 each. J. A. Heiser, Fisher, Ill. 1-3

HERTZ'S BUFF ROCKS win annually at Madison Square Garden, Syracuse, Palace, New York, and Hagerstown, Md. Stock and eggs. Catalog free. Joseph H. Hertz, Box A, Hanover, Pa. 1-3

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THOROBRED BUFF Plymouth Rock cockerels, at \$2, \$3.50 and \$5 each, and eggs, \$1.50 and \$2 per 15. R. N. Boose, Winston-Salem, N. C. R. 2. 1-3

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COLUMBIAN ROCKS—Beautifully standard marked; early maturing; great layers; yearling hens; pullets and cockerels, \$2.50 each. H. W. Morgan, Jefferson, Ohio. 1

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PARTRIDGE ROCK COCKERELS and pullets for sale. Satisfaction guaranteed. Ray Flinders, Ferguson, Iowa. 1-3

PARTRIDGE ROCKS—Priced reasonable. State Fair winners five years. Frank Neudecker, Sleepy Eye, Minn. 1-2

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 104. 5-15-1f

SILVER PENCILED ROCKS

SILVER PENCILED ROCKS—Winners at Chicago, New York, Boston, St. Louis. Breeding and show stock for sale. Catalog free. Peter Jungels, Jr., Lemont, Ill. 12-2

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WHITE ROCKS—Pedigreed, trapnested hens; records, 200, 205, 208, 210, 212, 214, 216, 225, 240, 252 eggs; cockerel out of 254-egg hen. Eggs, chix. Circular. This blood will help your flock. Dr. Prudhomme, Thurmont, Md. 1-3

WHITE ROCKS—Pure White from trapnested stock; 222-egg record. Henry Leftschuh, Sleepy Eye, Minn. 1-3

COOK'S TRAPNESTED WHITE Rocks—Records over 200 eggs; baby chicks, 25c each; hatching eggs, \$2 per 15; fertility guaranteed. Book your orders early. Mating list free. 5200 Harvard, Cleveland, Ohio. 1

WHITE ROCKS—Fishel strain direct; choice stock breeders and utility; farm range; booking orders, eggs and chicks; price list free. Whiteview Poultry Yards, Mishawaka, Ind. 1-3

WHITE ROCKS FOR SALE—Cockerels, \$2; pullets, \$1.50. Mrs. L. L. Hunter, Bakesburg, Iowa. 1-2

FOR SALE QUICK—Cheap; White Rocks, Halbach strain. C. R. Poole, Mt. Vernon, Ill. 1

WHITE ROCK COCKERELS, \$3 and \$5 each; shipped on approval; eggs, \$3 per setting, from prize-winning stock. F. L. Hooper, Kendallville, Ind. 1

WHITE ROCKS THAT LAY at the contests as well as at home. "Watch the Contest Reports." For the best in White Rocks write Dr. Louis A. Heely, St. Libory, Ill. 1-3

WHITE ROCKS — READY-TO-LAY pullets. Early hatched breeding cockerels. Line of winners. Free circular. Hoch & Frederick, Box O, Chambersburg, Pa. 12-2

WHITE PLYMOUTH ROCKS — Heaviest layers from stock with 200 to 300-egg records. Cocks, cockerels, hens, pullets, \$7.50 each. Eggs, \$3.50 and \$5 per setting. M. A. Stockley, Winnetka, Illinois. 12-2

WHITE PLYMOUTH ROCKS — Cockerels and pullets for sale; line-bred, good quality. Cockerels, \$3, \$5, \$10; year-old hens and pullets, \$2, \$3. L. F. Rettig, Moweaqua, Illinois. 11-1

PULLETS and COCKERELS — A beauty flock of grand breeding birds from trapnested, pedigreed, high record layers. Choice, selected birds, \$5. Trios and pens. Write at once for full descriptions. T. P. Dougherty, Route 202, Tyrone, Penn. 11-12

WHITE ROCKS — Trapnested 200-egg strain. Stock for sale at reasonable prices. Hillview Poultry Yards, Batesville, Ind. 12-2

R. C. BARRED ROCKS

ROSE COMB BARRED ROCKS—The winter bird. Cross them on Single Combs and breed Rose. Cockerels at rock prices—not war prices. Circular free. S. B. Wenger, South English, Iowa. 11-1

ROCKS—SEVERAL VARIETIES

THE MAIN POULTRY Yards—Breeder of Barred and White Rocks. Selling out, everything goes, including prize winners, pullets, hens, cockerels and cocks, either variety. For quick sales. John Maas, Hartford, Wis. 1

RED SUSSEX

RED SUSSEX FOR SALE — Show birds. Utility. Prices reasonable. Sussex Yards, Alma Center, Wis. 12-1

SPECKLED SUSSEX

SPECKLED SUSSEX — Males, \$3 to \$5; females, \$2 to \$3. The best of blood. D. Arnold, Dillsburg, Pa. 12-1

SPECKLED SUSSEX — Young stock for sale at \$3 to \$5 apiece. Will Fogg, Jonesville, Mich. 12-2

SPECKLED SUSSEX. Choice stock priced easonably. Rev. W. Berberich, Grotton, New York. 11-10-1f

SPANISH

WHITE FACED BLACK Spanish — Stock for sale. Winners Indiana Shows: New-castle, 1913; Marion, 1914; Goshen, 1915; Logansport, Marion, 1916; Indiana State Fair, 1916, 1917. J. R. Galloway, Elwood, Indiana. 11-1

SUMATRAS

BLACK SUMATRAS for sale—K. A. Wernle, 5020 Monticello Ave., Chicago. 1

BUFF WYANDOTTES

EGG-BRED BUFF WYANDOTTES—Exhibition quality. Elegant breeders and winners. Lea Munger, De Kalb, Ill. 12-1

GOLDEN MODEL BUFF Wyandottes — Special prices on old and young stock. B. M. Owens, Shiloh, Ohio. 12-2

BUFF WYANDOTTES — Sanborn Strain direct, from exhibition stock, great egg producers; cockerels reasonable. Ben Threlkeld, Ewing, Ill. 11-2

COLUMBIAN WYANDOTTES

COLUMBIAN WYANDOTTES — Choice strain, prize winners, stock and eggs; prices reasonable; quality guaranteed. C. A. Mock, LeMars, Iowa. 1-3

COLUMBIAN WYANDOTTES—Wilburtha strain. Satisfaction guaranteed. Fordham Poultry Yards, Sayre, Pa. 1-2

COLUMBIAN WYANDOTTES — Superior strain; winners at Madison Square and Boston; choice breeding cockerels and pullets; prices reasonable, quality considered. Gilbert Poultry Farm, Whittier Road, Haverhill, Mass. 5-1

A FEW GOOD Columbian Wyandottes, the kind that lay and pay. S. M. Watkins, Walnut, Ill. 12-2

FARM RAISED, FREE RANGE youngsters ready to please any one. Vigorous, trapnested stock. Good to look at. Prices reasonable for quality. Address Ralph Woodward, Lock Box J, Grafton, Mass. 11-1

GOLDEN WYANDOTTES

QUALITY GOLDEN WYANDOTTES, again awarded high honors at leading shows. The last at Iowa State show, won 3 firsts, 3 seconds and 1 third out of 34 Golden. Have both old and young stock. Write your wants. Ormo Poultry Farm, F. A. Volesky, Cedar Rapids, Iowa. R. 1 1

GOLDEN WYANDOTTES — Fancy and utility, from prize winning stock, priced reasonably. Satisfaction guaranteed. Chas. Dieckmann, R. 2, Batesville, Ind. 12-2

GOLDEN WYANDOTTES — Bred for exhibition and utility. R. Dick, Brunswick, Maine. 11-1

PARTRIDGE WYANDOTTES

PARTRIDGE WYANDOTTES — Cockerels, sired by 2nd cock and color special cockerel at Club Show, Chicago. Few grand cock birds. W. W. Day, Janesville, Wis. 12-1

PARTRIDGE WYANDOTTES — Premier Strain. For sale, choice cockerels, \$5; pullets, \$3; trios, \$10; pens, \$15. A. Louis Keim, Waterloo, Illinois, Box 93. 12-2

SILVER LACED WYANDOTTES

S. L. WYANDOTTE hens and chicks scored and unscored, Tarbox and Steinmesch strain; eggs in season. Mrs. C. W. Whitham, Fairfield, Iowa. 1-3

THIRTY BEAUTIFUL SILVER Laced Wyandotte cockerels for sale at \$2.50 each. Excellent in size, shape and lacing. Satisfaction absolutely guaranteed. Oak Park Poultry Farm, Dept. A, Des Moines, Ia. 1

SILVER WYANDOTTES—Hundreds of choice breeders and exhibition birds; also utility flocks. Chas. F. Schroeder, St. Peter, Ill. 1

SILVER LACED WYANDOTTE cockerels — Large vigorous farm raised stock, at \$2 and \$2.50 each. J. L. Harms, Fairbury, Neb., R. 2, Box 38. 1

SILVER LACED WYANDOTTES—Exhibition and breeding stock for sale; prices reasonable. B. A. Romich, Creston, O. 1

SILVER WYANDOTTES—Famous Tarbox and Steinmesch strains. Prize winners. Cockerels reasonable. Satisfaction guaranteed. James Leggett, Hornsby, Ill. 12-2

MAC'S SILVER WYANDOTTES—Breeding cockerels. Hatching eggs. D. Roszel McConnell, Randolph Ave., Hagerstown, Md. 12-3

FOR SILVER LACED Wyandottes, the kind that win and lay, address Heifrich Brothers, Hammond, Platt Co., Ill. 12-2

SILVER LACED WYANDOTTES — Good stock and eggs. Write for prices. Fred Tremblay, Box 184, Brunswick, Maine. 11-1

WHITE WYANDOTTES

WANT LAYERS? Baby chicks from trapnested White Wyandottes, 15c each; March delivery, 18c. Vigorous breeding hens. Winners at St. Louis Coliseum. Eggs, \$2.00 per 15. E. W. Schaperkoter, Valley Park, Mo. 1-4

STATE SHOW—Fair Champions, blue and red ribbon winners 1917; eggs, \$5 setting. Benj. L. Knight, Newberry, S. C. 1-3

WHITE WYANDOTTES—Rudy's Perfection Strain; choice cockerels reasonable. Write S. Martin Nelson, Momenca, Ill. 1-3

WILSON'S WHITE WYANDOTTES—What have you been looking for? A profitable strain with exhibition qualities. We have them of the Regal Dorcas strain. Cockerels, \$5 and \$10; pullets, \$3 and \$5; eggs, \$3 for 15. Satisfaction guaranteed. James C. Wilson, Peoli, Ohio. 1

WHITE WYANDOTTES FROM Wisconsin State Fair Winners; \$1.50 and up. Laurel Killips, R. 6, Waukesha, Wis. 1-3

"REGAL" WHITE WYANDOTTES — \$3 up; eggs, \$1.25 up. Write for circular and winnings. Satisfaction guaranteed. Hugh Barnes, Trenton, Mo. 1-4

WHITE WYANDOTTES exclusively — Stock and hatching eggs for sale. Orchard Poultry Yard, St. Peter, Ill. 12-16-1yr

COCKERELS FROM guaranteed trapnested stock with records of 200. C. W. Zelig, Appleton, Wis. 1-2

COCKERELS — White Wyandottes, from high record dams. Priced low. Belle Wright, Manteno, Ill. 12-2

CHOICE WHITE WYANDOTTE cockerels, \$3 to \$8. Merwyn Muir, Imlay City, Mich. 1

REGAL DORCAS WHITE Wyandotte cocks and cockerels. Elmhurst Farms, Scott, Ark. 1

WHITE WYANDOTTES—Typic cocks and cockerels, \$3 and \$5 each, from ribbon winners. J. Vernon Sheap, Jackson, Mich. 1

WHITE WYANDOTTES—Eggs from stock with breeding equal to any in America. Please write for prices and description of matings. I guarantee satisfaction. J. F. Garrison, Mt. Vernon, Ill. 1

WHITE WYANDOTTE COCKERELS and breeding pens; from high scoring, prize winning stock; range grown; good layers; eggs and baby chicks in season. W. A. Ziegler, Mt. Victory, Ohio. 1-3

WHITE WYANDOTTE COCKERELS and pullets. Show qualities and eggs. Trapnested ten years. Won first on show, also on eggs. Hatching eggs and day-old chicks. Miss Marion I. Moore, Hamburg, N. Y. 12-2

SOME FINE HENS and pullets for sale from a heavy laying trapnested strain of Regal White Wyandottes. J. A. Lowden, Winnebago, Neb. 1-2

BRED-TO-LAY STRAIN White Wyandottes, Rhode Island Reds and Barred Rocks. Stock and eggs in season. N. E. Robart, Caledonia, Mich. 12-2

REGAL-DORCAS WHITE Wyandottes direct. Pullets, hens, \$2; cockerels, \$3. Frank Hardwide, Poneto, Ind. 12-1

WHITE WYANDOTTE COCKERELS, \$3 to \$5 each. Satisfaction guaranteed. A. J. Shannon, Appleton, Wis. 12-2

JOHN A. BRUHN, Homer, Ill., breeder of Ideal White Wyandottes. Choice thrifty birds from good layers, \$2.50 and \$5 each. Satisfaction guaranteed. 11-1

WHITE WYANDOTTES—Stock for sale. Price reasonable; guaranteed. Edw. C. Wiesnorn, Grand Chain, Ill. 11-1

BARRON WHITE WYANDOTTES—Choice egg-bred cockerels, \$3. J. A. Shott, New Wilmington, Pa. 11-1

OWN-LAND FARMS' "Thrifty" White Wyandottes (Regal-Dorcas) have pleased hundreds. Beautiful pedigreed cockerels, \$5.00 and \$10.00. Circular, South Hammond, New York. 11-1

CHOICE BIRDS—Owen Farms and Barron stock. Arthur H. Furber, North Conway, N. H. 12-2

WYANDOTTES—SEVERAL VARIETIES

PARTRIDGE WYANDOTTES—Premier Strain and Silver Penciled Wyandottes sold on approval. James Schrubb, Urbana, Ohio. 12-2

SEVERAL BREEDS

WE ARE MATING up our pens of Regal White Wyandottes and Mahogany S. C. Rhode Island Reds with great care and we know there must come from these matings some grand stock, for we never had nicer prospects. Federal Poultry and Stock Farm, Federalsburg, Md. 1

400 ROUEN, Orpington and Muscovy ducks. 100 Silver Lace Wyandotte cockerels; 50 Single Comb Rhode Island Red cockerels. Fred Kucera, Clarkson, Neb. 1

ROSE COMB WHITE Orpington cockerels, one and two-year old hens; bronze turkeys; White China and Embden geese; reasonable. Mrs. Wm. Leinweber, R. 2, San Jose, Ill. 1

PARTRIDGE PLYMOUTH ROCKS and Silver Penciled Wyandottes; fine stock; shipped on approval; prices reasonable. Wm. Schetter, Urbana, Ohio. 1-3

DR. RICHARDSON'S MAMMOTH bronze turkeys; prize winners; large size; finely marked; also single comb White Leghorns; choice stock. Dr. H. A. Richardson, White Mills, Ky. 1

FOR SALE—SILVER Penciled Rocks, Black Wyandottes, R. C. W. Minorcas, Buff, Laced and Non-Bearded Golden Polish; Silver, Sebright and Partridge Cochins Bantams. James G. Ballie, Platteville, Wis. 1

TOULOUSE GEESE—Rouen Ducks, Buff and Barred Rocks of the highest quality; circular; stock and eggs. Edw. Davidson, Carey, Ohio. 1-3

COCKERELS, GOOD ONES; \$2.50 each; Barred and White Rocks, White Wyandottes, White Orpingtons, Rose and Single Comb Rhode Island Reds. G. A. Mitchell, Freeport, Ill. 1-2

FOR SALE—Black Javas, also High Scoring Blue Andalusian cockerels; silver cup winners. Herbert Hodgson, Albion, Ill. 1

ALL VARIETIES PURE BRED chickens, ducks, geese, guineas, turkeys, Belgian hares, ferrets, rabbits, pets. Price list free. Philip Condon, Box 1010, West Chester, Ohio. 10-2

PARTRIDGE AND WHITE Wyandottes, Embden geese, Bronze turkeys. W. H. Millward, Madison, Wis. 12-2

BARRON AND FERRIS S. C. White Leghorn cockerels, and E. B. Thompson's Ringlet Barred Rocks. Cockerels \$2 and \$3 each. Fair View Poultry Farm, Chas. Westlake, Sycamore, Ill. 12-2

CANARIES

GOOD INCOME raising canaries; the new industry; start at home; spare time; very little capital necessary; we show you how. Monarch Specialty Co., Evanston, Ill. 10-1

DUCKS

PEKIN DUCKS—Choice breeders; both male and female, \$3 apiece and up. Shoemaker Poultry Farm, Box 605, Freeport, Ill. 1

WHITE RUNNER DRAKES, \$2 each. Arnold Nelson, Harmony, Minn. 1-2

CHOICE PAWN RUNNERS, \$1.25 each. Hurry! Geo. Veitengruber, Millington, Mich. 1

GENUINE WHITE RUNNERS, \$1.50 to \$2 each; the great laying, pure white egg strain. B. F. Morgan, Independence, Ind. 1

ROUEN DUCKS—Sired by 10-lb. drakes. Show birds or breeders. W. W. Day, Janesville, Wis. 12-1

GIANT ROUENS, CAYUGAS—Chicago, Indianapolis winners. Arthur Zimmer, Warsaw, Ind. 12-1

60 LARGE ROUEN ducks at reasonable prices. Elmer L. Duttera, Littlestown, Pa. 12-1

MAMMOTH IMPERIAL PEKINS—State Fair, State Show and World's Fair winners. Fred Vanantwerp, Lohrville, Iowa. 11-1

DUCKS—ALL VARIETIES cheap if taken soon. Bare Poultry Co., Box 909, Hampton, Iowa. 11-1

FOR SALE—WHITE INDIAN Runner ducks. Beautiful. Registered Collie puppies. Satisfaction guaranteed. C. B. Wetzel, White Sulphur Springs, W. Va. 11-1

GEESE

PRIZE WINNING MAMMOTH Buff Geese; young stock for sale cheap. Ed. Weinrich, Geneseo, Ill. 1

TOULOUSE GEESE—Some choice breeders for sale; males and females, \$4 apiece and up. Shoemaker Poultry Farm, Box 605, Freeport, Ill. 1

LARGE EMBDEN and Toulouse geese, Pekin drakes, White guinea. Oak Grove Farm, R. 34, Box A, Peoria, Ill. 12-2

BIG TYPE EMBDENS—First prize winners Illinois State Fair, 1917. Harry M. Woods, Carlinville, Ill. 12-1

GEESE—MAMMOTH TOULOUSE, African, White China, Embden, Buffs, Ducks, Imperial Pekins, Rouens, Indian Runners, Muscovys, Buffs, Turkeys—Mammoth Bronze, White Holland, Bourbon Reds. Price reasonable. A. A. Ziemer, Austin, Minn. 11-1

ALL VARIETIES of geese cheap if taken soon. Bare Poultry Co., Box 909, Hampton, Iowa. 11-1

DUCKS AND GEESE

BUFF ORPINGTON DUCKS—One Embden gander and one young White Chinese gander to exchange for 2-year-old goose. Fred Wheeler, Jr., Peterson, Iowa. 1

TOULOUSE GEESE, Pekin and Penciled Runner ducks. A. Moritz, Rahway, N. J. 12-2

TURKEYS

AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our ad. on page 104. 2-ft

YOUNG BOURBON Red Turkey Toms, \$10. Dora Devine, Deer Grove, Ill. 1

LARGE WHITE HOLLAND Toms, \$8.00 each. Winnie White, Watson, Ill. 1-3

BEST GIANT BRONZE Turkeys, bred for great size, vigor and show quality. Sunny-side, Jonesville, Va. 1

EXCEPTIONALLY GOOD White Holland turkeys; prize winners; Toms, \$10; Hens, \$6. Mrs. E. J. Long, Assumption, Ill. 1-2

MAMMOTH BRONZE unrelated trios, bred from New York and Chicago prize winners; toms, \$8 to \$12; hens, \$7 to \$12; free circular. Eli Rosenberger, Tiffin, Ohio, R. 9, Box 26. 1-3

BRONZE TURKEYS—Sired by first prize Madison Square Garden tom, the sire of quality; pullets bronzed like toms; breeding and exhibition males and females. S. M. Yoder, Elk Lick, Pa. 1

GIANT BRONZE TURKEYS from San Francisco World's Fair stock. 40-lb. tom, 96 score, \$25. Toms, \$10 to \$15. Pullets, \$6 to \$8. From scored stock. Ollie Shelton, Polo, Mo. 12-1

GIANT BRONZE TURKEYS from world's best strain. If you want the big kind, write E. H. Hayward, Fairbank, Ia. 12-2

STANDARD BRED MAMMOTH Turkeys—Year-old toms, \$20; young toms, \$15; shipped on approval. J. H. Steele, Manassas, Va. 1

YOUNG BRONZE TURKEY toms, \$10.00 each while they last. Order now. Aaron J. Felthouse, Elkhart, Ind. 12-1

BRONZE TURKEYS—Furnish unrelated trios. Mrs. Hall Williams, Nelson, Mo. 12-2

MAMMOTH BRONZE TURKEYS—Stock for sale. Unrelated trios. F. L. Heavener, Piper City, Illinois. 12-1

PURE-BRED BOURBON Red turkeys—Toms, \$6. Hens, \$4. Henry Peterson, Wallingford, Iowa. 12-2

GIANT STRAIN BRONZE Turkey—World's Fair and Missouri State Show winners. Won 90 percent of all first awards and the state special over all varieties for best display, 1916. Catalog for 3c stamp. A. D. Walker, Memphis, Mo., R. 1. 12-2

CHAMPION BRONZE TURKEYS—The quality kind. Winners in America's largest shows. Have pleased customers in thirty states. Sired by sons of my 52-lb. champion tom, \$7.50 to \$25 each. Ike Hudnalls, Milan, Mo. 12-2

QUALITY BOURBON RED turkeys. Thos. Callaghan, Fenton, Mich. 11-1

PURE-BRED MAMMOTH Bronze turkeys. Stock for sale. Mrs. E. E. Mark, Stronghurst, Ills. 11-1

AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 104. 2-15-ft

PIGEONS

CARNEAUX and HOMERS—Mated and banded pairs. Good healthy birds. Homers \$1 per pair. Carneaux, \$1.25 per pair. Can ship the same day we receive the order. Belleville Rabbit Farm, Bellefontaine, O. 1

I OFFER GUARANTEED MATED Homers in any quantity at \$1.00 per pair. Beautiful White Homers, \$1.50 pair. Squab companies challenged to produce better stock at twice this price. Get my prices on Runts, Carneau Maltese hens and save dollars. Squab Manual, 25c. Charles A. Gilbert, 346 No. American St., Philadelphia, Pa. 11

WANTED—5,000 COMMON or Homer Pigeons. Pay at least 25c pair. Market poultry wanted. D. Gilbert, 1128 Palmer St., Philadelphia, Pa. 11

PHEASANTS

PHEASANTS, NINE VARIETIES—White Crested Polish and Houdans, White, Black and Buff Cochins, Bantams, Red Pile, Light Palmers, Japanese Silkies, pigeons and rabbits. Maple Grove Pheasant and Pet Stock, 43 Iden Ave., Pelham Manor, N. Y. 1

RABBITS AND HARES

PEDIGREED BELGIAN HARES—Young and matured stock at reasonable prices. All stock sold on a guarantee. Belleville Rabbit Farm, Bellefontaine, Ohio. 1

RAISE BELGIAN HARES FOR ME—I furnish magnificent, thoroughbred Young Rufus Red stock at \$3 each, and buy at your raise at 30c per pound on foot. Send 10c for Breeders' Instruction Bulletin. Frank G. Cross, 6433 Ridge, St. Louis, Mo. 11-17-ft

BELGIAN HARES—Get our quotations. Hare book and catalog, five stamps. Falling Poultry Farm, La Fargeville, N. Y. 1-3

PEDIGREED RUFUS RED Belgians and Mammoth Flemish Giants. Send 10c for booklet. Canada's Rabbitry, 263 York, Denver, Colo. 1-3

RUFUS RED BELGIANS and Flemish Giants. Booklet on hares 10c. Canada's Rabbitry, 263 York, Denver, Colo. 12-2

EARN \$15 WEEKLY raising Belgian hares. Particulars 10c. U. Anderson, 2421 Ogden, Denver, Colo. 12-2

GUINEAS

PEARL GUINEAS, \$1 each. Large flock to select from. John Hass, Bettendorf, Ia. 12-1

WHITE AFRICAN GUINEAS, \$1.50 each; \$2.50 pair; \$4 trio. Junia Moore, Kahoka, Mo. 12-1

PEARL AND WHITE African guineas cheap. Bare Poultry Co., Box 909, Hampton, Iowa. 11-1

GUINEA PIGS

GUINEA PIGS, \$1.75 per pair. Frank Brummer, De Soto, Mo. 1

BOOKLET BREEDING guinea pigs 20 cents. Warren Fluck, East Greenville, Pa. 4-17-lyr

DOGS

REGISTERED SCOTCH COLLIE Puppies —\$5 to \$10; catalog stamp. Failing Poultry Farm, La Fargeville, N. Y. 1-3

AIREDALE PUPPIES — Parents registered; vigorous fellows; males, \$12; females, \$8. M. L. Bright, Lucas, Ohio. 1

AIREDALES—EVERY poultryman should have one. Another litter of classy pups, 3 months old. Several registered brood bitches. A. L. Williams, Berea, Ohio. 1

REGISTERED AIREDALE PUPS for sale from choice breeding and good quality, best rat, vermin and watch dogs on earth. Holland Bros., Mystic, Iowa. 12-2

BEAUTIFUL, REGISTRABLE SCOTCH Collie male pups, \$8. Meadow Farm, Coulterville, Ill. 11

WAR DOGS—Uncle Sam chooses Airedales. Be patriotic—raise some. We have bred matrons, grown dogs, pups. Twenty-five spayed bitch pups. Collies, Scottish Terriers. List free. P. L. Savage, St. Charles, Ill. 10-17-11

PEDIGREED COLLIE PUPS. Males, \$10; females, \$5; London Hope at stud, fee \$10. Plummer McCullough, Mercer, Pa. 9-15-11

INCUBATORS AND BROODERS

FOR SALE—Candee Mammoth hot water incubator, 1915 model; only used one season; 5,400 capacity; cheap for cash. J. F. Best, R. R. 1, Comstock, Mich. 1

SACRIFICE SALE INCUBATORS—My husband's absence necessitates disposal of following Cyphers Lamp Incubators: Twenty Special Size, 500-egg Cyphers; used four seasons, \$30. Forty 400 Chas. Cyphers; used only four hatches, \$22. Four 240 Cyphers; fine condition, \$20. All guaranteed good working condition and complete. Special price on ten. Eliminate unnecessary correspondence, order direct from this ad. Mrs. Ralph Reeds, 4400 Terrace, Kansas City, Mo. 1

\$25 BUYS 600-EGG Mandy Lee incubator in good condition. R. L. Cass, Short Falls, N. H. 1-3

FOR SALE—3-65-egg Buckeye hot water incubators, complete. Never been used, as I changed my plans after purchasing. Cost \$10.50 each. Will sacrifice for \$8 each; cash, no trade. Address R., care American Poultry Journal, Ill. 1-18-11

130-EGG INCUBATOR, like new, \$15.00. W. A. Gillespie, Stamps, Ark. 1

FOR SALE—Seven 600-egg Buckeye incubators. Also small machines of other makes. Several Hall, Candee and Blue Hen Mammoths. Write us about your requirements. Harrisonburg Hatchery, Box E, Harrisonburg, Va. 1

TEN WHITE LEGHORN Baby Chicks Free to introduce my New Natural Heat Economy Brooder. Send \$5 for New Brooder and 1 will include 10 Premium Chicks free, or 20 Chicks free with \$10.00 Brooder if ordered at once direct from this advertisement. Can ship safely over three days' journey. Forty years experience in developing the Philo System. Reference any bank or reliable poultryman. Edgar W. Philo, Philo Farms, Rood, Fla. 1-2

FOR SALE — 1917 Sectional 3,000 Hall mammoth incubator in perfect condition. Used only three hatches. Price right. Jerseyland Poultry Farm, South Vineland, N. J. 1

BUSINESS OPPORTUNITIES

POULTRYMEN'S POCKET COMPANION 50c postpaid. A guaranteed genuine leather pocketbook that every poultryman should have. See illustration in our display advertisement on page 72. Our 12th annual catalog of high grade guaranteed leather goods and novelties sent free with your first order, or alone for 10c to cover postage. Stamps accepted. U. S. Leather Goods Co., Dept. 80-A, 106-8-10 W. Lake St., Chicago, Ill. 1

COLLECT NAMES AND Addresses—Profitable and honest business. Start at home. Spare time. No canvassing. Detailed instructions 12c. Norman Ovri, Hemet, Calif. 1-3

PET STOCK

BEAUTIFUL ANGORA CATS and kittens; make the best ratters, \$5 up. Stamp for reply. Bay View Farm, North Haven, Maine. 12-2

FERRETS

2,000 FERRETS—EITHER color. Small. Mated pairs or dozen lots. Pamphlet and price list free. Levi Farnsworth, New London, Ohio. 8-3

SILVER BLACK FOXES

FOR SALE AT WAR time prices—Choice unrelated real Northern Canada Silver Black foxes, in pairs. Reid Bros., Bothwell, Ontario, Canada. 10-1

ORNAMENTAL

SILKIES—LAKE GEORGE Game Farm, Lake George, New York. 12-5

PATENT ATTORNEY

MEN OF IDEAS and inventive ability should write for new lists of "Needed Inventions," "Patent Buyers," and "How to Get Your Patent and Your Money." Randolph & Co., Patent Attorneys, Dept. 319, Washington, D. C. 10-17-11

VALUABLE PATENTS SECURED—Protect your ideas. Send drawings for patentability search. New booklet free. Lester L. Sargent, 524 Tenth St., Washington, D. C. 9-17-11

PRINTING

POULTRYMEN'S PRINTING Prepaid. Noteheads, envelopes, cards, tags, labels, 100 either, 55c; 250, \$1.00; 500, \$1.50; 1,000, \$2.50. Postcards, catalogs, circulars, linen letterheads, everything. Finest cuts furnished. Stamp brings elegant samples. Model Printing Company, Manchester, Iowa. 12-2

250 PRINTED ENVELOPES prepaid for 75c. Prices for other printing in proportion. Catalog free. The Richardson Press, Bedford, Ind. 1

EXCHANGE

EXCHANGE—EDISON PHONOGRAPH, 125 records, for pheasants or poultry. Lucy Bailey, Albion, Ill. 12-2

FORTY VARIETIES, or cash, for Swedish, East Indias, Mallards; small call ducks, geese, etc. Lee Kyburz, Honey Creek, Wis. 1

STRAWBERRY PLANTS

25 OF KOELL'S NEW everlasting strawberry plants free to every customer. Write today for catalog telling all about them and other plants and seeds. W. H. Koell, Box 704, Hampton, Iowa. 1-3

FARMS FOR SALE

"WEST LOUISIANA, EAST TEXAS and the Gulf Coast," just published by the Kansas City Southern Railway, contains a full description of the country from Shreveport, La., south to the Gulf of Mexico, its mineral, forest and agricultural resources, cities and towns, sent free. Write for a copy to Immigration Bureau, No. 541, K. C. S. Bldg., Kansas City, Mo. 1-2

\$600 DOWN SECURES big poultry plant. Equipped poultry plant offered at very low prices to settle estate; good 2-story house, nicely shaded lawn, shrubbery, etc.; ideally fruited to healthy young apples, pear, plum, cherry and peach orchard; poultry buildings, practically new, 30 foot laying house with modern troughs, hoppers, etc.; 36 foot brooder house and smaller houses; fine water, nice neighbors, successful poultrymen nearby; especially adapted to fruit, poultry, melons, sweet potatoes, berries and early garden truck; only \$1,700 and as little as \$600 down secures it; balance easy terms. E. A. Strout Farm Agency, Vineland, N. J. 1

IN SOUTH DAKOTA—Cheap grazing gives wonderful opportunity to produce high priced meat. Ask for official state bulletin. Dept. of Immigration, Capitol 12, Pierre, S. D. 1

CALIFORNIA POULTRY FARMS for sale on easy terms. Write E. R. Waite, Shawnee, Okla. 1-2

WANTED

MAN—WANTS WORK on poultry plant; used to farm work; of good habits. E. M. Dahl, 1013 Eleventh St., Sioux City, Ia. 1

WANTED—LADY STENOGRAPHER for large Mail Order Poultry Farm. Must know pure bred poultry. Be good on composition. Capable of dictating letters and managing office help. Permanent position for right party. References required. Address F, American Poultry Journal, Chicago, Ill. 1-3

WANTED—POSITION ON poultry farm to learn the business. Am a steady man. Address Joseph Schnick, 90 Olive St., Meriden, Conn. 1

POULTRYMAN DESIRES position; 15 years experience, large egg farm; married. Frank Hammers, 1920 N. Robey St., Chicago, Ill. 1

WANTED—POSITION on strictly fancy poultry plant, by young man; experienced, and a thoroughly qualified judge of all varieties; references from a number of prominent poultry authorities on request. A. G., 521 E. Main St., Havana, Ill. 1

IMPORTANT—EXCELLENT POSITION open on new poultry farm; steady; experienced; single preferred; exceptional opportunity for right party. A. J. Murphy, Sewickley, Pa. 1

WANTED—SITUATION on poultry farm; middle-aged woman; experienced. Address M, care American Poultry Journal, Chicago, Ill. 1


WANTED TO BUY—Hamburgs, Golden Wyandottes, C. I. Games, Leghorns, Spanish, Ducks, Geese, Turkeys, and many other varieties. Describe what you have quoting lowest price. Z. G. McKay, Clinton, Ia. 1-3

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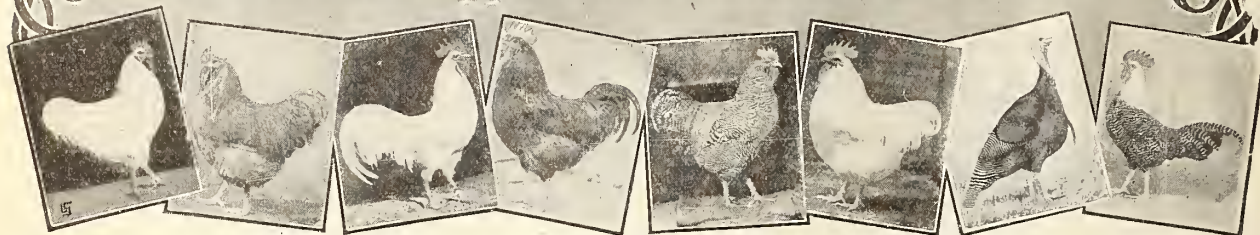
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THAT'S why the big poultry raisers and the big egg producing companies have for four years used, and continue to use **Milkoline**. Experiments made at Missouri University, extending over a year, absolutely prove the above statement—in fact, the following table shows that we could almost say three times as many eggs from the same flock and the same grain.

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thrive on **Milkoline**. It is the best possible tonic. A long-felt want for the hog raiser as well as the poultryman. Keeps young pigs and hogs toned up so that they can resist disease, take on weight quickly and develop rapidly.

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<i>Fed without Skim Milk.</i>	<i>Fed with Skim Milk.</i>
25 hens	25 hens
1373 eggs	3275 eggs
1095 pounds grain	957 pounds grain
409 pounds mash diet	446 pounds mash with skim milk added
<i>Cost per dozen 22½c.</i>	<i>Cost per dozen 10½c</i>

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This is the month when breeding and laying birds must be in the very best of condition to produce the maximum number of eggs. They need a food ration that continually builds up the system. For early baby chicks nothing better than **Milkoline**. Where **Milkoline** is fed White Diarrhoea is unknown.

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Observe the Wonderful Shape, Color and Barring.

Their record at America's Imperial Show, Madison Square Garden, New York, for 29 years stands without parallel.

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EGGS from the finest exhibition matings in the world, \$15 per setting; four settings, \$45; 100 eggs, \$80.

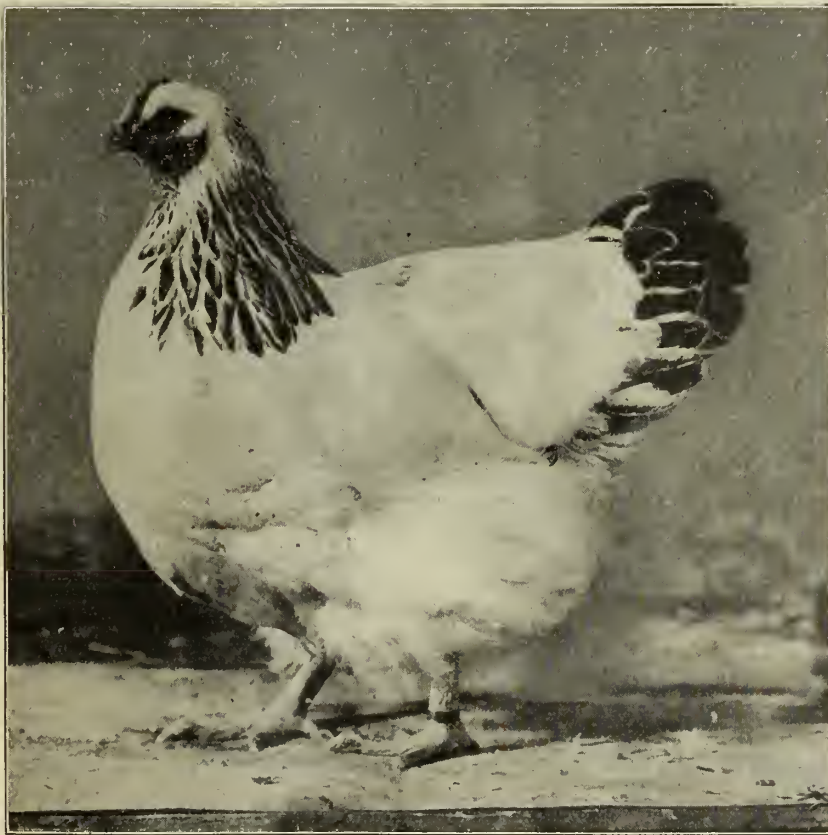
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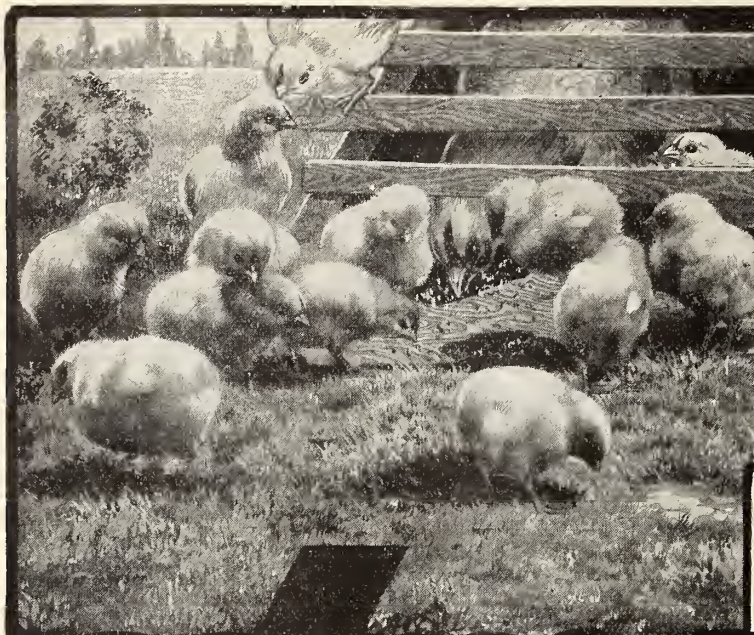
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FEBRUARY, 1918



First Pen Columbian Wyandotte Pullet at Madison Square Garden. Dec. 28, 1917 to Jan. 1, 1918.

Report of Madison Square Garden Show



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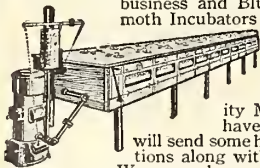
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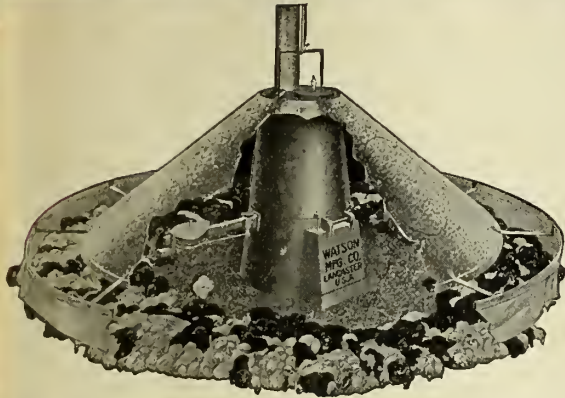
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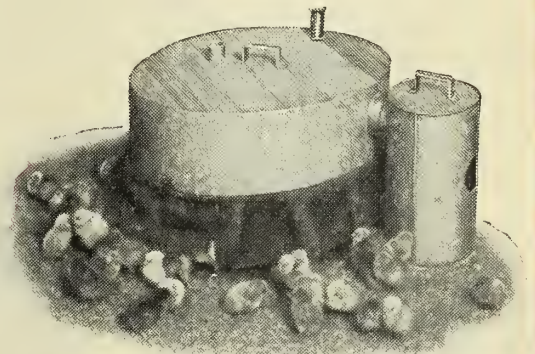
Just What You Need for Flocks of Less Than 100 Chicks

More Room Inside Hover for Chicks Heat with 10% to 30% Less Oil

TWO SIZES

1. Heater is *outside* of the Hover—giving more room *inside* for chicks.
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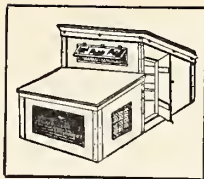
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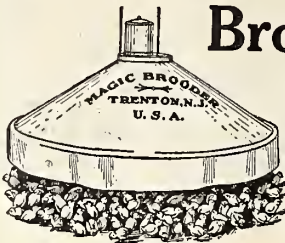
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IMPORTERS-BREEDERS

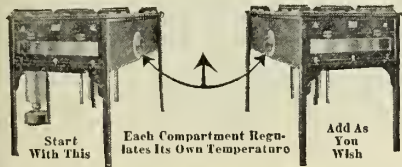
"ULSTER QUEEN RECORD 800 EGGS IN 3 YEARS" **MARLBOROUGH, N. Y.**

"WE LEAD, OTHERS FOLLOW"

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Notice If your copy of the American Poultry Journal does not reach you promptly, you are asked to have patience. Owing to conditions at the present time, it is impossible for us to issue with our usual promptness.



Don't wait until you are swamped with orders before ordering another incubator, but if you do find yourself in this predicament, and want one

Quick we are in a position to give you immediate service. We have a large number of machines on our shipping floor all crated, ready to ship on a minute's notice. The

Schwalge Sectional Incubator

is made in all sizes at reasonable prices. It is not a cheap machine made to sell at bargain prices, but an article of honest workmanship, built to last a lifetime.

Send for Our Catalog NOW!

It will only cost you the price of a postal card, and may be the means of saving you hundreds of dollars. We know if you knew all about our machine that you would recognize its superiority and value over others. Send for our catalog now and be prepared.

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BUFF — WHITE — BLACK

The most talked of and best thought of strain in America. Have sold 56 first prize State Fair winners last fall and some 240 winners this winter, including both Chicago shows. Owing to my superior and complete line of birds, I offer this month \$35 cockerels for \$25; \$25 cockerels for \$15, and \$15 cockerels for \$10. The best possible \$100 breeding pens of 4 females and male for \$75. A few \$75 breeding pens for \$50, and regular \$50 breeding pens for \$35. Larger matings at proportionate rates. EGGS from finest exhibition matings, \$10 per 15; \$18 per 30. Fertility and quality of product absolutely guaranteed. Other eggs, \$15 per 100. Satisfaction guaranteed always. I deliver the quality to the amateur and experienced breeder alike.

C. S. BYERS (Orpington Specialist 18 Years) HAZELRIGG, IND.

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The Best Wh. Orpington Cockerel of 1917



First Cockerel
Chicago Coliseum, 1917

This superb bird, Blue Ribbon winner at Chicago Coliseum, Dec. 1917, and whose photo by Stahmer, appears on page 30 of the January American Poultry Journal, was in the All-Star Exhibit sent by Aldrich Poultry Farm to the Madison Sq. Garden Show. With 200 entries of other exhibitors from the west, these beautiful birds were caught in the terrific storm which swept New York State Xmas week, and only part of them arrived the day the show closed and, of course, too late for the judging.

But **YOU** know

Aldrich has the Best White Orpingtons in America

Send for new mating list

ALDRICH POULTRY FARM 5083 N. High St. COLUMBUS, OHIO



\$600,000,000.00

Let Us Help YOUR

T HIS Land of Liberty must now feed the world. A tremendous increase in poultry and egg production is imperative! 1918 is bound to be the greatest year for profits for poultry raisers that America has ever seen!

The U.S. Food Bureau and Dept. of Agriculture declare there will be a *need* for and *top prices* for \$600,000,000.00 worth more of poultry and eggs than were produced in 1917. *One hundred million more* pounds of poultry will find a ready market at big prices. *Billions and billions more eggs* than were produced in 1917 will be gladly bought at high prices by America and Europe. Get busy. Learn how to increase your flock at least expense. Investigate the 1918 X-RAY INCUBATOR.

1918 X-RAY

We Prepay Express to Prac-

Sent the safest, swiftest way! Sent *at our expense!* So that you *won't* have to wait for weeks—*won't* lose time—*won't* lose the profit that early hatches always bring—*won't* lose fertile eggs through spoilage! This means that you will get *your* X-Ray Incubator *when you want it*—when you are in need of it *in a hurry!* And when you get it, you get all the

20 HATCH-INCREASING BETTERMENTS

that are combined in this 1918 X-Ray. Chief among these features are:

The Handy Height feature achieved by deep lid that retains heat—enables egg tray to come back to hatching heat quicker—and saves oil.

The X-Ray Quick Cooling Egg Tray—makes it easy to turn eggs—built high in frame, protected by new deep lid—*built of heavy galvanized wire mesh.*

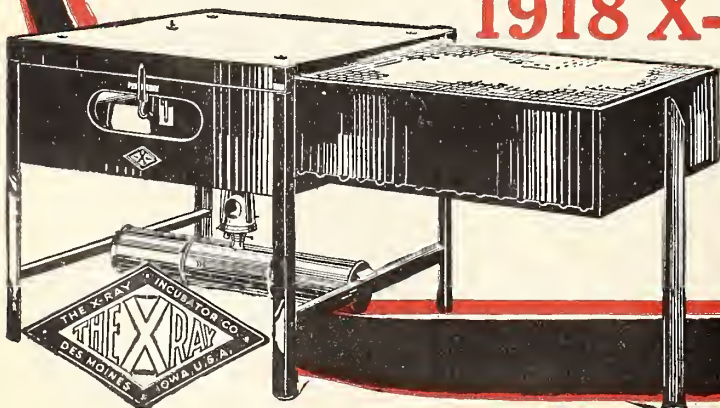
The X-Ray Nursery Tray—provides absolutely sanitary conditions—great convenience in removing chicks—provides ideal place

for "drying out" new-born chicks—whole tray easily removed and "kept clean as a whistle."

The Instantaneous Egg Tester—reveals egg fertility (or the lack of it) at a glance—no trouble—least disturbance to eggs—all accomplished by simply attaching the Patented X-Ray Testing Device (furnished FREE with every X-Ray Incubator) to the lamp.

The X-Ray Gas Arrestor—simple, yet marvelously perfect—positively prevents entrance of gas or fumes from lamp into egg chamber.

1918 X-Ray Brooders, Too



Protect *all* the little chicks. Save them all. Give them the right start. Learn what a wonder the 1918 X-Ray Brooder is as a chick saver and raiser. Made with Famous X-Ray Duplex Heater, that guarantees uniform warmth and prevents chicks crowding together for warmth and thus injuring themselves. Also has celebrated X-Ray Gas Arrestor that prevents lamp fumes entering chick chamber and affecting chicks—and Canopy over Exercising Room that protects chicks from both excessive sunlight and draughts.

X-Ray Incubator Company

Express Pre-

Hen Money You to Get Share!

Poultry is selling at prices that are "sky high."

Eggs are retailing at 5 cents each in many places. 75 cents per dozen for fresh eggs has been paid in many large cities. And the prices won't—can't come down much this year. The demand is too much larger than the supply. New York City alone uses annually Over Half a Billion More Eggs than the greatest egg producing state in America yielded in 1917! Here's your chance! Double—treble—yes, quadruple the size of your flocks. And here's the easiest, surest, most economical way to increase your flocks—get a

INCUBATOR tically All Points

The lamp's flame is scientifically adjusted by the X-Ray Automatic Trip. The instant there's too much or not enough heat, the flame is automatically decreased or increased as needed. The lamp produces just enough heat at all times and all it produces is used. Used properly— evenly distributed throughout the entire hatching chamber. No wasted heat, no "cooked" eggs—none chilled.

The X-Ray Duplex Central Heating Plant, directly underneath, furnishes natural, moist mother hen heat. The X-Ray Hinged Glass Top, so that you can look down into the egg chamber without opening the machine. These, coupled with all the other exclusive features, assure good hatches—sturdier chicks—less work for you—less expense to you! Think of them all! Compare all of them with the detail of other incubators.

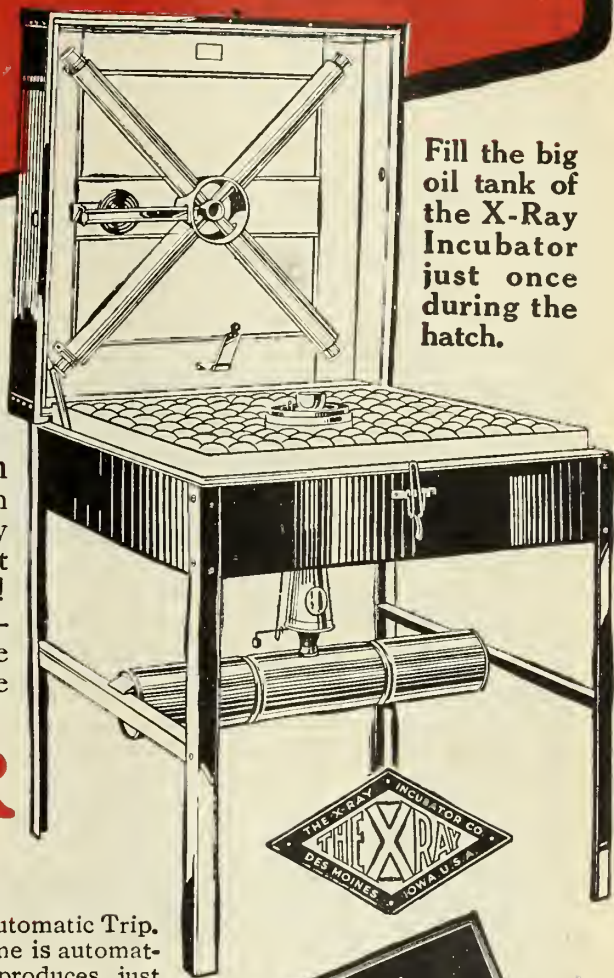
Get This Book That Will Help You Get Your Share

This handsome volume will post you on the easiest, surest, quickest, most economical way to increase your flocks, to get the best and the earliest hatches, to fatten your poultry profits. You absolutely *need* to read this book, whether you intend to buy an X-Ray Incubator or Brooder or not. It will so post you on *modern* incubator features and *values* that no one can fool you on incubator merits or worth.

Send your name and address on the coupon—or a post card—today for 1918 X-Ray Book, No. 10B

Dept. 10B Des Moines, Iowa

paid

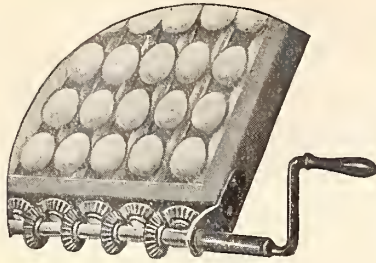


Fill the big oil tank of the X-Ray Incubator just once during the hatch.



X-Ray Incubator Company, Dept. 10B, Des Moines, Iowa
You may send me your big, Free X-Ray 1918 Book, No. 10B

Name _____
St. or Route No. _____
Town _____
State _____



A Turn of Crank Turns Every Egg

Roller Tray Incubator

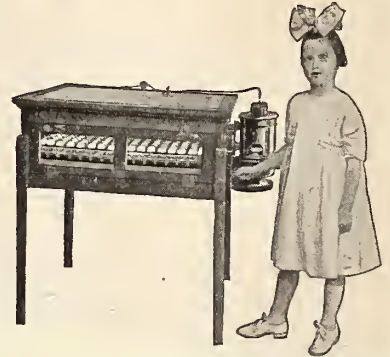
Endorsed by
Most Responsible Authorities

60-100-150 and
200 Egg Sizes

Superior Construction. Write for Catalog and Testimonials

ROLLER TRAY INCUBATOR CO.

Grant Avenue, Nutley, New Jersey



CAUTION: Any Bone Cutter claiming to be MANN'S without F. W. MANN CO. cast on its surface, is an imitation. The genuine MANN'S is made only in Milford.



Make Hens Lay

WE publish a book which gives the secret that all fowl raisers are most interested in—the secret of making hens lay when eggs are high as well as when they're cheap. The quick and easy way. Goes into the why of the subject. Makes you master of the poultry and egg business. Opens up a new line of thought on the best feed for poultry—the ideal egg-producing food, viz., ground raw bones with the meat and gristle that adheres to them.

MANN'S LATEST MODEL BONE CUTTER

prepares raw, green bone and gristle into a fine mash, four times richer in protein (the egg-making, body-building element) than corn. It supplies the animal food that chickens must have. Easily digested. Saves grain feed. Fowls relish it. Makes them grow, keeps them well, makes hens lay.

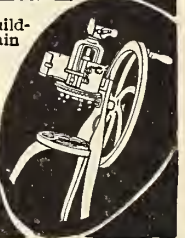
We Sell This Machine On Ten Days' Trial

No money down. Try it and note the improvement in the egg yield. If you like it, then buy it. If not, send it back at our expense. Send today for the book and read it. It is free. It will make you want the machine and the machine will add greatly to your profits.

F. W. MANN COMPANY

Box 56, MILFORD, MASS.

FREE BOOK FOR YOU ON MAKING HENS LAY



My Silver Campines Again Champions!

at the COLISEUM, CHICAGO, Dec. 4-9, '17

I won the Sweepstakes Championship for the 5th successive time

Cocks	Hens	Cockerels	Pullets	Old Pen	Young Pen
1	1		1	1	1
2	2	2	2	2	
3	3		3		
			5		

40 males placed at the Coliseum Show during the last four years.
104 females placed at the Coliseum Show during the last four years.



NOW GET THIS: The breeder who has only five, ten or fifteen exceptional Campines is not going to supply many customers with hatching eggs from prize-winning fowls. But when a breeder has literally Scores and Scores of Big Show Winners, as I have, the customer is pretty certain to get what he pays for in the way of hatching eggs and day-old chicks. Isn't this reasonable?

HATCHING EGGS from the finest exhibition Silver Campine matings:

HATCHING EGGS from other pens headed by Coliseum winners, but not Bl. Ribbon males:

Per Sitting of 15 eggs.....\$10
Three Sittings for.....25
One hundred eggs for.....50

Per Sitting of 15 eggs.....\$ 5.00
Three Sittings for.....12.50
One hundred eggs for.....25.00

Write me today for information.

FRANK E. HERING Desk B SOUTH BEND, INDIANA

BUY FROM BONDED BREEDERS

Our \$100.00 Surety Bond Backs Every Purchase You Make

Buy that cockerel, pullet or pen, those eggs or baby chicks, from a "Bonded Breeder" and rest assured you will receive 100 cents in value for every dollar you spend. Tell us what you want in ANY VARIETY, and we will tell you where you can get it from a "Bonded Breeder." Address

International Poultry Federation, Topeka, Kansas, U. S. A.





140-Egg
Champion
Belle City



Jim Rohan
Pres.

Biggest Hatches Strongest Chicks

That's What You Want — That's What "Tyco's" Cup
You Will Get With My Champion Belle
City Hatching Outfit — And I Can Prove It.



The whole story is in my big book—"Hatching Facts", in colors, sent Free. It gives short cuts to success in raising poultry and you will want to start one of these wonderful Guaranteed

Hatching Outfits making money for you. It is a matter of good business and good patriotism to raise all the poultry you can this year. And besides you can make extra big profits by using my

\$8⁹⁵ 140-Egg Champion Belle City Incubator

Freight Prepaid East of Rockies

The incubator that regulates and ventilates itself — equipped with patented thermometer holder — round cornered, and non-leakable, copper tank — big safety lamp and deep nursery. — The incubator with the Fibre Board double-walled construction, that has led the field for over 12 years. The kind used by Uncle Sam — leading Agricultural Colleges and over 650,000 of America's most successful Poultry Raisers. My \$5.25 World Famous Hot - Water, Double - Walled,

big, roomy, 140 - Chick Belle City Brooder (Illustrated below) is guaranteed to raise the chicks, and makes your Hatching Outfit complete. When ordered with Incubator — both cost only \$12.95. Freight Prepaid East of Rockies and allowed that far if you live beyond. You cannot get a better Hatching Outfit at any price. If you are in a hurry and wish shipment to come by express, I will prepay amount of freight towards the express charges, and it will cost but little more.

Read how money is made — what pleasure folks have raising poultry the Belle City way — Letters and actual photographs prove every statement

A Trusted Servant
My success is due to the perfect working of the Belle City Machines. You have done something to help every working person interested in poultry, to make money. — My 140-Egg Champion Belle City Incubator are trusted servants and produce unequalled results.
H. W. Norberry, Mass.

Boy of 16 Makes \$350
It's easy work and lots of fun raising poultry with a 140-Egg Champion Belle City Hatching Outfit. I am only 16 years old, and made \$350 clear last season. Most incubator men forget about the boys and girls, but you give them a great opportunity to make money.
Dale Schaffer, Ohio

Women Handle With Ease
This year I am using nine of your perfect incubators, because I find them absolutely self-regulating—an incubator a woman can handle with ease—with deep nursery to keep chicks comfortable, with a device to keep thermometer where you place it — that hatches turkeys as well as chicks.
Mrs. Pearl Sarver, Mo.

"I Wish my
Daddy had a
Belle City



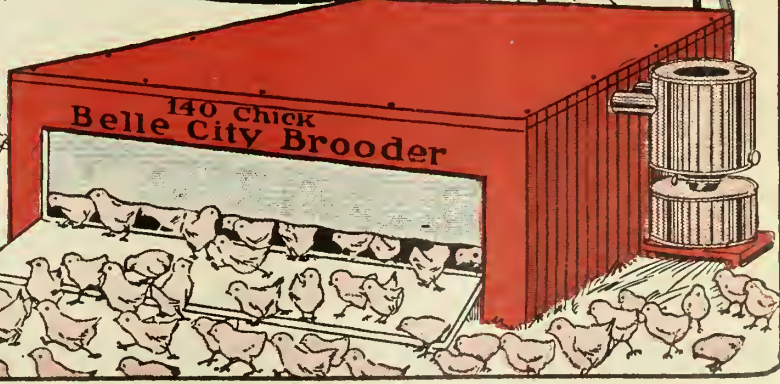
What Others Are Doing You Can Easily Do
And you are perfectly safe in ordering direct from this advertisement—Now. I ship quick from Buffalo, N.Y., Kansas City, Mo., Minneapolis, Minn., or Racine. Besides you share in my

Special Offers

to you. Full particulars come with my catalogue, "Hatching Facts". These special offers provide ways to make extra money. With this Guaranteed Hatching Outfit and my complete guide book for setting up and operating, you are sure to have poultry in abundance, as shown here. Order now or write today for my catalogue — the most practical guide to success with poultry. — This book is free for the asking. A postal will do. Jim Rohan, Pres.

Belle City Incubator Co.

Box 27 4 Racine, Wis.



What Do You Get Let Me Tell You What 26 Years' Experience Says You SHOULD Get



H. H. JOHNSON, "The Incubator Man"

WITH eggs worth close to a nickel apiece—with the world calling for more poultry, and paying top notch prices—and with your time worth many times the price of the incubator, I don't think you want to experiment this year, neighbor. You cannot afford to take chances. First of all you want a dependable machine. You want a chick from every hatchable egg. Next, you want a simple machine, easy to operate, easy to understand, economical of oil, and next you want long service.

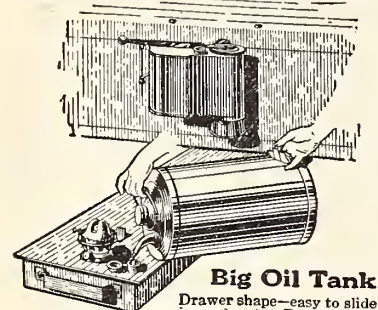
You want a "Pure-Bred" Hatcher. Old Trusty answers that call. How? Just ask one of our 750,000 customers. They are everywhere. Note the illustrations. But remember these are only a few of Old Trusty's many features. Heretofore I've never said much in our ads about how Old Trusty was built. With three quarters of a million pleased owners boosting for it, I didn't think it necessary. It is the accepted "pure-bred" of hatchers—holds the unbeatable record for big average hatches year after year, which means biggest profits for owners.

Send For This A B C of Poultry Raising

and let me show you how well Old Trusty answers your poultry questions this year. In Old Trusty you get the result of 26 years' experience in making and selling incubators.

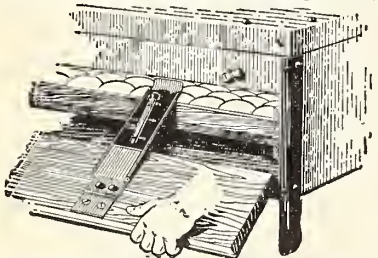
Think of how good an incubator must be to have enabled us to build up the largest exclusive incubator and brooder business in the world—and to have over three quarters of a million pleased customers in all parts of the country. Our book tells all about it. Also gives you some of our experience in raising poultry. While this is our catalog, it's really more of a book for poultry raisers. It's a 108-page book, and 100 of the pages deal with profitable ways of raising poultry. Not a special fancy business with high sounding titles, you understand, but simple, every day facts that father, mother and myself and our 750,000 customers picked up in actual experience.

Send today for a copy—FREE.



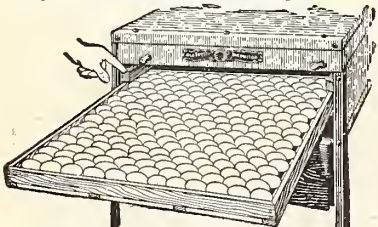
Big Oil Tank

Drawer shape—easy to slide in and out. Removed instantly but does not require moving to be filled. Holds about 6 quarts. Saves work of filling so often.



Handy Thermometer Holder

Thermometer in place—and instantly in view the minute you open the door. Saves time and stooping. Also prevents thermometer from getting lost.

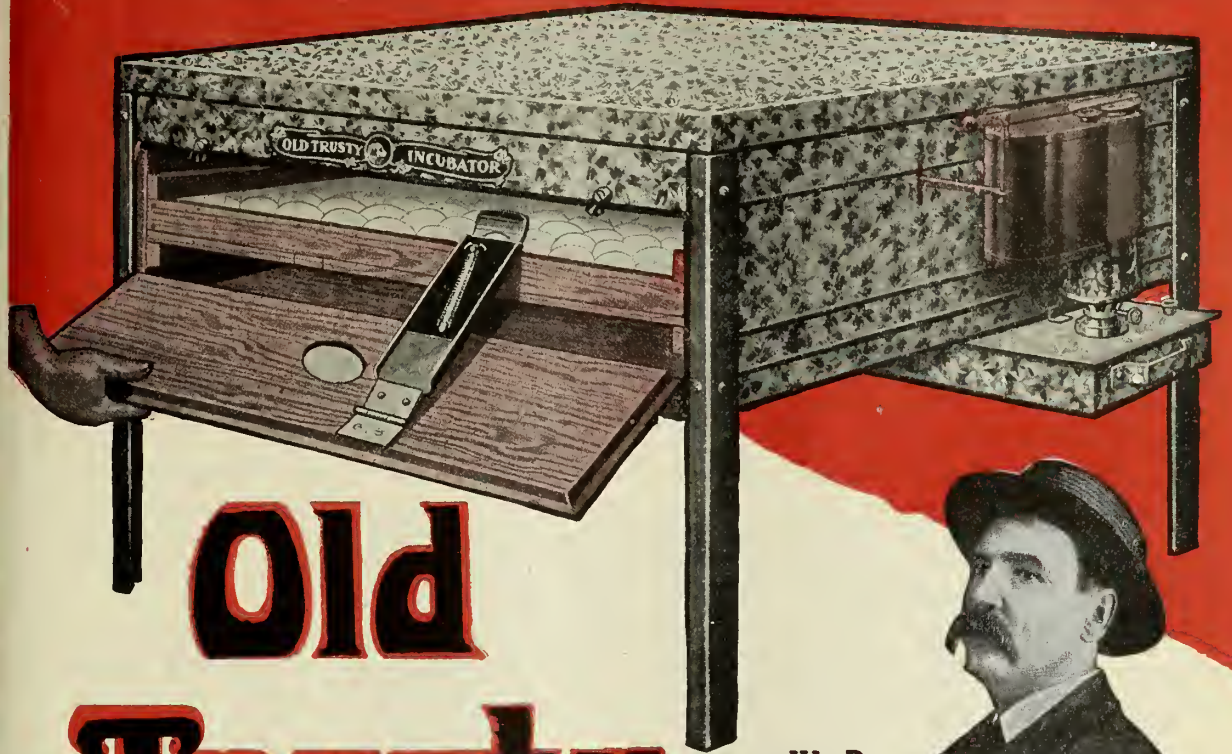


Strong Egg Trays Well Braced—Self Supporting

I don't know what could do more mischief than a wobbly egg tray. OLD TRUSTY trays are built by careful workers. The frames are extra strong and smoothed on the edges to slide in and out easily. Self supporting when drawn out. Maybe this is not an important point, but it shows the care used in building Old Trusty.



In An Incubator?



Old Trusty

We Pay the Freight or Express. Quick shipment from factory or St. Joseph, Mo., warehouse.



M. M. JOHNSON
Inventor of Old Trusty

Old Trusty Comes Completely Built

We don't expect you to fiddle away your time all day to build your incubator after it arrives. Old Trusty is built complete here at the factory and is shipped in a strong crate that prevents damage to your machine while in transit. Ready for business the minute you take the crate off and screw the legs on. A five-minute job.

Not Cheapest Nor Highest

Bryn Mawr, Pa., Feb. 24, 1917. I bought a 100-egg Old Trusty Incubator in December, 1916. I find that it is not the cheapest nor the highest priced incubator but it is the best. I have tried several makes, but never had any kind that kept the temperature right on the mark regardless of the weather like Old Trusty. I run it out in an old shed and the outside temperature is never two days alike. I consider it a great pleasure to run Old Trusty.
Yours, Harrison Edsall.

Send Today and Get Our Book

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Maurice F. Delano, Proprietor Frank H. Davey, Superintendent

AMERICAN POULTRY JOURNAL

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879.

Volume 49

Chicago, Ill., February, 1918

No. 2

Care of Early Hatches and Early Broods

Practical Pointers on Successful Incubating and Brooding. Where and How to Locate the Incubator. How to Maintain Temperatures, Care of Eggs and Baby Chicks. *By Maurice H. Decker, La Porte, Ind.*

EARLY hatches should prove the rule rather than the exception this season, for even the earliest chickens that will reach the market when egg and broiler prices are at their best will prove sufficiently risky propositions from the viewpoint of profit when the cost of their rearing in feed and time is figured up, unless corn, our most important grain for growing fowls, should drop to a more reasonable and normal price. In any event, February and March hatches will be the most profitable, for the pullets will have ample time to acquire full growth and normal development in time to begin laying during September and the cockerels should reach at least a two-pound weight for the April market, the most favorable month for broilers both in price and demand. Incubators are the only dependable means for hatching out chicks during these months, and provided they are properly managed and the breeding stock is healthy and active, the chicks will prove as strong and as easy to raise as will those hatched by hens.

In purchasing an incubator pay more attention to substantial, time-tried features and regard as less important all new and novel details which in many cases are but talking or advertising points only, designed to catch your eye or fancy; for, as has been said many times before, no new discoveries of importance have been made in the art of incubation since it was practiced in old Egypt in the time of Pharaoh. Ample ventilation, an even temperature and an absence of noise and vibration are features to be considered when a location for the incubator is

selected. A well ventilated cellar, free from drafts, without artificial heat, in which the temperature ranges from 45 to 60 degrees, constitutes an ideal location. Undesirable locations are sheds or buildings that afford insufficient shelter, cellars

which contain vegetables or furnaces or which are so damp as to be musty, a kitchen or living-room which during the day is warm and at night cold, or that contains steam or odors, or where vibration is occasioned by much walking over the floors or by the slamming of doors. Muslin windows or screens are the best means for ventilation of cellars or rooms in which incubators are placed. Enough ventilation should be provided to keep the air free from all lamp odor and fumes at all times.

Occasionally early hatched chicks cost more to rear than those hatched later in the spring, but this extra cost, aside from the extra fuel which in itself is a small matter, is usually caused by losses in brooding, due to inadequate brooders and a lack of enough heat. Provided the chicks are well sheltered during the extra cold days and have a steady supply of brooder heat, they will eat better and grow faster than those hatched out later during warm weather. The early eggs should hatch the best and have always done so for us, for, being the first laid by the breeding flock, contain and are able to impart to the chicks that vitality and vigor that makes them easy to raise in any season or weather. February and March eggs at our farm run as high as 98 percent fertile with hatches from small 100-egg incubators running as high as 90 chicks from 100 eggs, while in April and May, when the strength and vitality



VALENTINE THOMPSON
Amenia, N. Y.

was born in March, 1892. He is the son of E. B. Thompson, the well known breeder and originator of the "Imperial Ringlet" Barred Plymouth Rocks. It is but natural that constant association with first-class Plymouth Rocks should make him what he is—an expert judge and breeder of this variety. He is all that and more. At the big Madison Square Garden Show, New York, he was in charge of their entire exhibit and handled the valuable show birds with skill such as only long experience could produce. Valentine Thompson is an earnest student of poultry and one of the most competent men in the production of Barred Plymouth Rocks.

of the breeds have been diminished by steady laying, the fertility drops down to 90 to 95 percent, with hatches averaging about 75 percent from both large and small machines. Unless we give the breeders a week's rest from laying in May, the June eggs give us only about 50 percent hatches. We buy a quantity of hatching eggs early each year to hatch and raise into market poultry and we always endeavor to get the first eggs laid by each flock if we can. Many people hold the opinion that a hen should lay a month or so, beginning with January or February, before her eggs will hatch well; but we will take a chance upon the first month's yield even of pullets laying for the first time, provided the eggs are of average size and well shaped. Eggs that are shipped or transported some



First prize Golden Wyandotte hen at Greater Chicago Show, January, 1917. Owned by Ira C. Keller, Prospect, Ohio.

distance before they are incubated during cold weather will, of course, run considerably lower in results than those gathered fresh from the nests into the incubators, for there are many opportunities for them to become overheated or chilled, or both. This is the main reason breeders' guarantees of fertility run lower early in the season than they do in April or May.

Another secret of successful early hatching is to have either enough hens at work laying or sufficiently small incubators, or incubators with small separate compartments, so the eggs may be set as fast as they are gathered. Last March our hatches from eggs not over 48 hours old ran as high as 90 percent, as before stated, while those eggs a week to ten days old did no better than 80 percent. As some authorities have declared, the chicks over and above a 50-percent hatch are those that pay the profit, an extra five or ten chicks from each hundred eggs is a matter well worth working for. We have one 100-egg incubator that has been in our cellar five years, that cost us \$9 and which has never yet hatched out less than 80 chicks for us, three and four times a season. This machine is of light construction but we cover it up with clean grain sacks in cold weather, set it with eggs seldom over 24 hours old, and we can always figure our chicks before they are hatched. Small hatches like this are not difficult to brood in the colony brooders. Provided

no flocks are over seven days older than the others, three different hatches can be put in one room, keeping them separated for a few days with two-foot netting until the youngest are about ten days old. This little extra trouble will be amply repaid by the extra chicks hatched from the extra fresh eggs and by the ease and certainty with which each young chick will have a chance to learn to eat promptly, something pretty difficult in large flocks of the same age. A few savings in incubation and brooding of 5 to 10 percent in each operation will do much toward taking the uncertainty out of the poultry business. If a man could reckon with raising a fixed percentage of his flocks each year, he could soon learn where he stood in regard to the costs of production. It's the losses of chicks dead in the shell and hatched and partially brooded and half-raised chicks that takes the heaviest toll from our profits. We have had many hatches that would have been much more profitable if the eggs had been sold at market prices and not put in incubators, and doubtless all others have had the same experience.

When putting the eggs in the incubator trays, do not fill them fuller than will allow them to be turned easily and conveniently. Fill them up snug but do not overcrowd. We have crowded them in, stood the eggs on end, in fact, to permit an overcapacity of 15 percent, but it has never paid. On the other hand we have run 50 eggs in a 250-egg machine and 100 eggs in a 360-egg incubator with equally bad results. We have started 50 eggs in a 250-egg machine at the same time we set a larger incubator and a week later transferred them to this larger machine to take the places of those tested out, but the transferred eggs never have hatched as well as the others. The cubic air space, ventilation capacity and moisture supply of each incubator seem to have been accurately figured out to best suit the number of eggs it is rated to contain, and the best results invariably follow when these capacities are adhered to.

We have dipped our eggs in a weak solution of cresol disinfectant, but they hatched no better or the chicks did not appear any stronger than those hatched from eggs kept clean by clean nests and careful handling. We wipe off all eggs carefully with a clean cloth to remove any dust and occasionally wash one that is badly soiled, but the best results with the least trouble have been obtained by giving the hens a chance to keep the eggs clean from the start. A quantity of cinders or straw spread upon the ground before the hen door of the poultry house will help by keeping the fowls' feet cleaner in muddy weather. If dropping boards are used, have the roosts so adjusted that there is not enough room for the hens to run under them or they will scratch over the droppings with the result that many eggs become badly soiled. Allow none of the hens to roost in the nests and change the litter often. If some of the pullets acquire a mania for scratching in the nests, as they do in the floor litter, hang strips of burlap over the front of the nests to darken them.

Another point that helps in keeping up the average of a hatch to a profitable figure is that the eggs of one class of breeds, such as the Asiatics or Mediterranean fowls, hatch better by themselves than if mixed up in the same incubator. Rock and Red eggs or Leghorn and Ancona eggs will hatch better together than will Rocks and Leghorns or Reds and Leghorns. Leghorn eggs hatch nearly 24 hours earlier than do those of the heavy breeds, and these early chicks will be needing plenty of ventilation and an opportunity to be drying off when the others demand a closed machine and an abundance of moisture. This can be offset to some extent by starting the Rock or Red eggs in the incubator about twelve hours earlier than the others. Although the Leghorns hatch more than twelve ours earlier, our experience has been that any greater difference in the time of starting the eggs will still result in an irregular hatch.

Some incubators will, no doubt, prove hard to heat up to the proper temperature for early hatches and still harder to maintain at 102½ degrees the first few days after the eggs are in place. If the temperature drags along at a low figure the first week, the eggs will hatch late and there will be a greater percentage of dead germs and chicks dead in the shell. If one's cellar is very cold it may be necessary to run a small oil heater for a few days, in addition to wrapping up the

incubators in heavy pieces of cloth, such as carpets or rugs. After the germs begin to develop the eggs will hold heat more readily and give off a little warmth themselves and the supplementary heat can soon be dispensed with. If you bundle up the incubator to conserve the heat, be careful that none of the wrappings interfere with the regulator or are liable to come in contact with the lamp or the heater. Most of the heat that is radiated by incubators escapes through the top of the machine and through the glass door in the front. Put the heaviest pads upon the top and hang a heavy cloth over the door. After covering the top of the incubator it is an easy matter to discover if any heat was actually escaping through the top. If the wood under the covering gets warm you may be sure you are effecting a material saving in oil and heat. Don't attempt to heat up the incubator unless the regulator damper is shut down tightly and do not raise it until the desired temperature is reached. Quite a few people set the regulator before the temperature rises or leave it set from the last hatch of the year before and then try to warm up the machine to 102 or 103 degrees. Large incubators in cold cellars will sometimes require three to four days, running before they are thoroly warmed thru. If the damper fits loosely over the top of the heater lay a small weight upon it to hold it down heat tight, but do not neglect to remove the weight before the temperature rises to the desired point. In all cases never put eggs into the incubator until it has reached the proper temperature and maintained it evenly for at least two days.

Eggs will need little cooling early in the season when the incubator is placed in a cold room or cellar, at least during the first two weeks of the hatch. We seldom attempt any cooling at this time with early settings other than the eggs receive when they are turned or tested. The last week they are cooled once or twice a day, depending upon the temperature of the room. We have discovered that it is safest to do little cooling in cold weather, but a whole lot of it when the weather becomes warm or hot. Care must be taken that the eggs are not chilled in turning or testing. Never let them remain out long enough to feel cold when touched to the eyelid. If possible try to maintain the proper incubation temperature without turning up the lamp to its maximum height. This will leave a reserve capacity for heat that may be necessary on extra cold days or nights.

Moisture is probably the most difficult problem to solve connected with incubation. In non-moisture hot-air incubators it will not be necessary to supply additional moisture early in the season if the machine is in an unheated cellar. If, however, difficulty is experienced in getting the chicks out of the shells, the eggs should be sprayed with warm water after the first one is pipped. This is a hard question to regulate, as the conditions in cases are seldom similar. Poultrymen should experiment a little and discover if added moisture will improve the percentage of their hatches and the quality of their chicks. In our ten years' experience with non-moisture hot-air incubators we have never once obtained what we consider a satisfactory hatch without the use of some moisture at the time of exclusion. Late in the season we find it necessary to pull the trays of hatching eggs out sometimes as many as three times and soak them well, chicks and all, with warm water.

After years of experience with every form of brooder equipment, with the single exception of the long, hot-water-pipe-heated brooder houses, I regard the coal-burning colony brooder stove installed in a well-built, 10x20 or 12x24 foot, double-floored, well-lighted and well-ventilated building divided into a scratching room and a stove compartment of equal size as the most efficient and economical, both of fuel and labor, brooding device for cold weather. Such a combination affords plenty of room where the chicks can scratch, exercise and eat in shelter upon the many dark, cold and rainy days of spring, in a cooler atmosphere than that of the brooding room and yet with plenty of heat close at hand to which they can run at the first evidence of chilling. This style of brooder requires less money invested than any other type of similar capacity, as the building can quickly be converted into a laying house, the only idle equipment being the brooder stove itself. I believe the careful poultryman, by running his chicks in flocks of not over 350 in a 12x24-foot,

brooder, can raise as great a percentage and as good quality chickens and more cheaply than can be done by any other method. We have made some very good mortality records and fast growing records with our coal brooders that have made our experience with 50-chick lamp-heated brooders look sick by comparison. Last season our best record was 294 chicks raised to an average of three pounds from 300 baby chicks and two of those lost were killed by being stepped upon. The long cold springs we have had the past three years makes it hardly possible to brood more than one hatch with one brooder each season. The chicks need the heat so long a time there is no chance of weaning them in time to put in another flock. The economy of the coal brooder allows this to be done with but a very small brooding charge per chick, much less than any other style of brooder we know of.

Our management of these brooders is described in detail in the reprint of the article in the October issue, but a few points we have learned by experience since are given below. First, there is one fault that certainly does not come under



First pen S. C. White Leghorn cockerel, St. Louis, January, 1918. Owned by Eugene Smith, 317 Galena Boulevard, Aurora, Ill.

the list of those of the small, dark, circular hover. The litter, dust, etc., in the coal-burning brooder room does in time become too dry. We believe our chicks do better when we keep a pan of water sitting under the stove to evaporate and aid in keeping the atmosphere at its natural humidity. Of course, this is only possible when the stove is set up on legs. We understand one firm is experimenting with a stove which has arrangements such as hot-air furnaces for heating dwellings have for keeping the air humid. If your stove is not set on legs, shallow pails of water hung by wires from the under side of the metal hover close up enough so the chicks cannot jump into them will solve the problem.

If the room is to be divided into two or more spaces for flocks of different ages about one stove, be sure no sharp corners are formed by the dividing partition of wire netting, at least up close to the stove. Hard coal bids fair to be pretty scarce this season, so poultrymen will probably have to run their stoves on soft coal, coke or a mixture of two or all of these fuels. Some hard coal should be used if possible, for it holds fire much better than does coke or soft coal.

Do not wait longer before buying breeding stock. Buy now while you still have an opportunity to secure good selection and to get your birds in time to raise some early chickens. AMERICAN POULTRY JOURNAL advertisers are ready to serve you. Send your order in today.



The American School of Poultry Husbandry, Leavenworth, Kansas. (1) View of breeding pens. (2) Ducks on part of the ten-acre growing range. (3) Long laying house containing 500 White Leghorns in American Leghorn contest. (4) Colony houses used in American breeders' contest, 17 varieties represented by 5 pullets each. (5) Big flock house, 48x60 ft., houses 1,000 hens. (6) House 20x20 ft. with straw loft, used in spring for brooding chicks; in winter as a house for layers. (7) Another view of breeding pens used for choice Standardbred stock. Natural shade, all yards cultivated and cropped to supply green food.

Get Ready! Your Chance Will Come!

Comment Concerning T. E. Quisenberry and the Correspondence Courses of the American School of Poultry Husbandry. *By Prince T. Woods, M. D.*

WE HAVE received many inquiries from readers concerning the advisability of taking a correspondence course in poultry husbandry. In each case we have endeavored to make our reply fit the particular case of the individual asking the question. In the majority of cases we have said, "You can benefit by such a course; it has practical value, but whether you get much or little out of it will depend largely upon yourself and the sincerity of the effort you put into it. Try it, but make a real business of it, not simply a pastime. Be sure that you put real work into it and do not side-step your opportunities. Do not imagine that securing a diploma is the goal you are striving for. The diploma is meaningless unless you have, by diligent study and practical application, built within yourself a substantial foundation for future work out of the lessons the course provides."

Study, well-chosen reading, all efforts to improve one's self, to prepare for the opportunities which may come, always are worth while. Abraham Lincoln said: "I will study and get ready, and maybe my chance will come." The chance always comes if you get ready for it. Dean I. T. Talbot, a leading educator in his day, always addressed the entering classes at the university on the importance of putting whole-souled effort into study and into practical application of the lessons. At impressive points in his discourse he would thunder out, in a voice that vibrated to the innermost depths of his students, his favorite slogan, "Your success depends upon three things — *Concentration! Application! Work!!!*" The first time we heard it, it merely startled and provoked a smile. The second time it began to convey a meaning. With each repetition the meaning became more plain and the conviction grew that in those three words, so forcibly expressed, lies the real secret of all success in life. With that simple "call to arms" in the workaday world, Dean Talbot, by the magic of his personality, changed many a heedless boy or girl into a thoughtful man or woman and helped them to get a firm foothold on the first rung of the ladder of success.

Do we consider a correspondence course in poultry husbandry practical and worth while? We do. Its value to you, friend reader, will be worth just as much as you make it worth by "*Concentration! Application! Work!!!*" Get ready! Your chance will come!

Comparatively few people are so situated that they can take time and money to attend a school or college, even for a short course. Such opportunities usually come at an age when one is not sufficiently mature to appreciate their full value and take advantage of them. Many a man or woman would give much for just another chance at school work, with their more mature appreciation of the opportunities neglected in earlier days. Appropriate to this, Dr. Metcalf said, "Young men *think* old men fools, and old men *know* young men to be so."

Present occupation, age, location, do not bar anyone from taking a correspondence course of study. The expense of such courses is generally quite small in comparison to the value. The books and lessons are supplied. The subjects covered carry one thru location, house building, choice of a variety, feeding, mating and breeding, hatching and rearing, prevention of diseases, marketing—an opportunity for practical study of poultry husbandry from rearing to salesmanship. One can study at home and continue with the

regular work of earning one's living. The lessons can be studied while engaged in the practical application of same in farm or back-lot poultry keeping. If one is interested in poultry, wishes to improve spare time by a study of poultry husbandry, the correspondence plan offers to city man or woman, the farmers and farmers' wives, to boys and girls, an opportunity worth while.

Thomas E. Quisenberry is president and dean of the American School of Poultry Husbandry, Leavenworth, Kansas. We have known him for some time. He is an enthusiast and an untiring worker, a valuable asset to the poultry industry. He possesses imagination, executive and managerial ability, and is decidedly an aggressive hustler. The mistakes he makes are the common mistakes of the enthusiast and the promoter. He is practical, his success proves it; but he sees the possibilities of the poultry business far more clearly than the fundamental economic principles, upon which the foundation of the future success of poultry husbandry must be based to insure security. He did good and practical work as director of the Missouri Poultry Experiment Station at Mountain Grove, and has met with remarkable success in his new correspondence school, started a little more than three years ago, in which he has surrounded himself with capable and efficient helpers. The school has enrolled students in every state in the Union and in sixteen foreign countries.

The school owns twenty acres of land within the city limits of Leavenworth. Here the school is conducted, has an administration building containing various offices, laboratory, printing plant, incubator rooms, etc. Ten acres of the plant are devoted to range. On the balance are located buildings and yards for breeding pens of Standard-breds, special experimental flocks and three laying contests. There is an American Breeders' Contest including some seventeen varieties of Standard-bred fowls from some of the most widely advertised strains.

An effort is being made to demonstrate that exhibition quality and beauty can be successfully combined with good egg production. Each pen consists of five pullets and one reserve. An American Leghorn Contest is being conducted with 500 specimens representing thirty-one different states, Canada, Australia and England. These Leghorns are housed in a long laying house. Records are being kept of all the feed, labor, etc., and it is believed that these records will show what may be expected of such a flock under present-day conditions. We hope that when the records are made public that full details of all labor, overhead, and other expenses, will be clearly stated in the manner that such accounts are rendered in any well-regulated business. There is also a yearling hen contest, which should present some interesting data. Twenty-five pens of fowls are represented in this contest. Besides the contest flocks there are numerous breeding pens.

We are informed that every hen and pullet on the plant is trapnested and every baby chick is pedigreed. The incubating equipment consists of a mammoth Candee, a mammoth Newtown, and several small incubators. About 2,000 chickens are reared each season.

With this article we reproduce views of the school plant which tell their own story. Students are offered their choice of three regular courses of study, the third being a combination of the first two, and also a special short course. In



T. E. QUISENBERRY,
President American School of Poultry Husbandry, Box 206, Leavenworth, Kan.

December, 1917, Mr. Quisenberry issued a special bulletin for students, entitled "Solving the Poultry Feeding Problem," an interesting booklet designed to render aid in reducing production costs under war-time conditions.

We trust that this answers the many readers who have asked us for personal information concerning this school and its correspondence courses, and the many others who

may be moved to inquire. As to the value of any course of study, bear in mind that depends largely upon the use you make of it.

Say, as Lincoln said, "I will study and get ready, and maybe my chance will come." Do not forget that "Your success depends upon three things—Concentration! Application!! Work!!!"

STARTING WITH A WAR-TIME FLOCK

Suggestions for Beginners Who Take Up Back-Lot Poultry Keeping As a Source of Food Supply.

By Prince T. Woods, M. D.

THE "big drive" to increase poultry production on farms and in back-yards now being conducted by the United States Department of Agriculture in co-operation with the State Agricultural Colleges, in which work a federal appropriation of nearly \$150,000 will be expended, is certain to cause a large number of beginners to start with a war-time flock. Back-lot war flocks are likely to become as much the fashion as were the home gardens of 1917, if the stimulating inoculation with the virus of "hen fever" takes as generally as the county agents are expected to make it.

One of the first questions that will occur to the beginner is "How shall I start?" In normal years the start might easily be made in the spring in any one of three ways, or a combination of all three, with breeding stock, with eggs for hatching, with baby chicks. This is not a normal year. Flocks have been greatly reduced by the unfavorable conditions of 1917. There was exceptionally heavy selling off of fowls and pullets last summer, fall and early winter. This does not mean that breeding stock cannot be had, but there is a scarcity of good breeding stock, both young and old. Breeders are offering a limited supply of breeding birds at reasonable prices, the quality of the stock and the season considered. Hens and pullets of utility quality for layers are not plentiful. It is easy to say "start with pullets," but if there should be any general movement in that direction it would be exceedingly difficult to get the pullets. Buyers must expect to pay higher prices than were usual in more normal times.

Breeders who have carried any considerable stock of fowls thru the 1917-18 fall and winter season did so in most cases because they had reasonable expectations of custom to take their output. A good many booked orders ahead for hatching eggs or arranged to supply near-by hatcheries. Eggs for hatching from the popular varieties are to be secured from breeders who advertise in this magazine, but the buyer should

place his order as early as possible to avoid disappointment and should expect to pay a fair price for eggs. Hatching egg orders for spring delivery should be booked this month. The beginner who decides to start with hatching eggs may not be able to secure a broody hen to do the work of incubating and rearing. There are a number of good small incubators and standard sized brooders that can be depended upon to do good work if operated carefully according to manufacturer's directions.

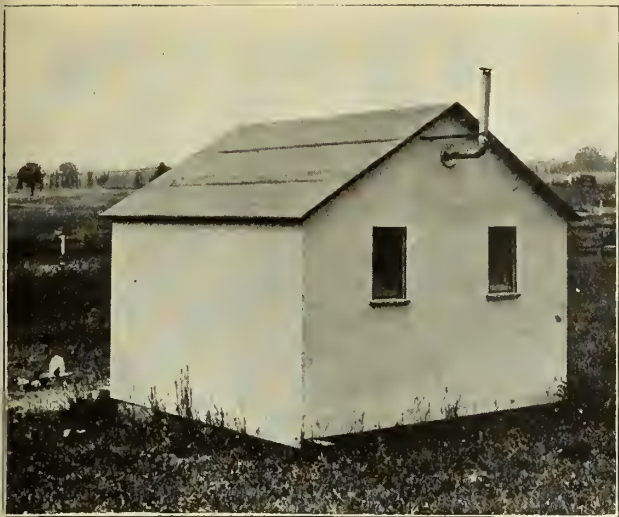
Baby chicks will be offered in considerable numbers this season. The big hatcheries contracted for their hatching eggs early and are reasonably sure of a good supply. The demand seems certain to be heavy. A good many breeders have taken up the baby chick end of the business and will dispose of a large part of their product as newly hatched chicks rather than as hatching eggs. Some will supply customers with brood hens and broods in limited numbers at a fair price. Baby chicks travel very nicely for any distance within 72 hours express journey from the hatchery. Allowance will have to be made for present-day transportation difficulties and delays. The hatchery men are making an earnest effort to secure preferred shipment and prompt delivery on all orders for baby chicks or eggs for hatching.

In starting with baby chicks, when a brood hen is not supplied, it is necessary to have dependable brooding equipment. The individual brooders with rated standard capacity of 100 chicks are small enough to buy and are most economically operated with a brood of not over 50 chicks. We do not advise buying less than 25 baby chicks at one time. Many back-lotters will find it just as easy and more economical to start with a brood of 50 chicks. Where flocks of from 200 to 400 chicks are to be reared, the coal-burning brooder stove operated in a building about 12x12 feet gives very satisfactory results. Portable buildings may be purchased for this purpose at reasonable cost and may be used for housing the flock after the brood is grown. All shippers of baby chicks send out advance notice of when shipment may be expected and most of them supply directions for brooding and care of the chicks.

When ordering either hatching eggs or baby chicks, the beginner must make sure that he is ready for his order when delivery is made. The incubator or the broody hens must be in readiness to receive the eggs soon after their arrival. In the case of the incubator it should be thoroly warmed up and carefully regulated—running it empty for a few days to make sure it is properly adjusted—before eggs are trusted to it. Brooders must be warm and ready when chicks arrive. Brooding equipment must be warmed up and regulated and run thru at least two nights to make sure that it can be depended upon to keep the chicks comfortable. Where baby chicks are to be given to broody hens, the hens should have been sitting for several days on nest eggs. The hen should be fed before she receives the chicks. It is best to place the chicks under her after dark; but if necessary to give them to her by daylight, the nest should be darkened and, if possible, the room in which nest is should also be dark. Care must be taken in giving incubator-hatched chicks to a broody hen or the hen may refuse to mother them. There are many details of poultry keeping with which the beginner should make himself familiar when starting with poultry—too many to be included in a monthly article—and we recommend that each beginner secure and study "How to Raise Chicks," which



View of colony brooder house using coal-burning brooder stove, U. S. Government poultry farm, Beltsville, Maryland. Yard of portable fencing is shown in front of house. Building instructions may be secured from Poultry Investigations, Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C.



Rear view of Uncle Sam's colony brooder house using coal-burning brooder stove, in use at Government farm, Beltsville, Maryland.

may be obtained of the AMERICAN POULTRY JOURNAL book department. This book tells plainly in a practical manner how to select and manage breeding fowls, what you want to know about foods and feeding, how to get hatchable eggs, how to hatch with hens, how to hatch with incubators, how to test eggs, how to brood and raise chicks, helps to successful poultry keeping adapted to needs of beginners.

Many beginners ask, "What breed shall I select?" With so many good ones to choose from, it is not possible for us to recommend any particular one. All of the popular varieties are good; all are capable of excellent egg production; all will furnish good meat for the family table, altho some make best table poultry as young chickens*, others are good at any age†, while others do not spend to good advantage as table poultry until nearly full grown°. The smaller, active varieties, like the Leghorns, Campines and Anconas, are naturally included in the first class*; the Plymouth Rocks, Rhode Island Reds, Wyandottes, Javas, Dominiques, Orpingtons and Sussex in the second class†; and the Langshans, Brahmans and Cochins in the third class°. Black fowl or the darker parti-colored varieties usually make the best appearance on city and town lots in soft-coal districts where the air is sooty. White varieties or the ermine-clothed Brahmans and Columbians make the most attractive picture on green grass ranges, and any of the popular Standard-breds will look well and do well on the farm. Where Leghorns or other high flyers are kept, high fences are necessary or the run must be wire covered. Most of the heavier breeds can be kept easily inside of a 4-ft. wire fence.

Housing the family flock of adult layers need not be a difficult or expensive problem. Usually anyone with a little ability to use carpenter's tools can build a small poultry house cheaply from second-hand lumber or box boards. Good portable houses for use on rented land can be purchased at reasonable cost. The size of the house required will depend upon the size of the flock, but it is not wise to use too small a house. An open-front house 6 feet wide by 10 feet deep will accommodate from 6 to 12 layers. We would not want a smaller house for laying and breeding stock. The 8-ft. by 14-ft. house gives very comfortable quarters for from 15 to 25 birds in one flock; while the 10-ft. by 16-ft. house is a very convenient size for flocks of all sizes up to 40 hens. For 100 layers or breeders in one flock, we use a 20-ft. by 20-ft. open-front house, and when we have plenty of house room we have used this size building for flocks of from 50 to 80. When crowded for house room we have successfully wintered 150 Leghorns in a 20 x 20 open-front house.

"How large a flock do I need to supply the family table with eggs? With poultry meat, also?" To answer that question one would have to know the size of the family and its normal consumption of poultry and eggs. We would not advise anyone to keep less than ten laying hens or pullets. Such a flock would furnish only a scant supply of eggs for a small

family. While small flocks generally show better average egg production than large flocks, we have to consider the general average for all hens when figuring our expectations. It is the safest way to avoid disappointment. The average annual egg yield per hen for the entire United States is under rather than over 7 dozen eggs per hen. Even on well conducted egg farms a recent canvass showed an average of only 97 eggs per hen per year in a good poultry state. It is an excellent flock that will yield an average of 10 dozen eggs per hen a year, and a particularly good flock that can be depended upon to shell out 144 eggs per hen in 12 months. Some flocks will better this yield, but the owner earns and is entitled to the increase. If the beginner wishes to count his eggs before they are laid, he will be wise not to count over 10 dozen eggs a year for each hen, and he will make a safer estimate if he figures on a basis of 100 eggs per hen.

For a small family flock of layers we would prefer fifteen or one dozen hens rather than a flock of ten. Personally we would not keep less than 25 to 30 layers and would prefer 50. We like to have plenty of eggs, some broilers and fryers and roasting chickens and fowls for the home table. With our little family of four we would not know how to get along with less than 30 layers and the raising of at least 150 chickens each season. We have always carried much larger flocks than these and have come to depend so much upon our home supply of eggs and poultry to take the place of meat from the butcher, that we should find difficulty in doing without a good-sized home flock. However, unless conditions mend very materially, and soon, we do not intend to conduct our poultry plant during the coming season even at 25 percent of its capacity, for the production of market poultry and eggs for sale to others. We have had quite enough of producing food to sell to consumers for less than it cost us, and until consumers show willingness to pay us a fair and just price we will be obliged to go slow. Manufacturers, tradesmen, merchants, butchers, bakers and candlestick-makers are not expected to produce and sell at a loss or to "go busted" supporting the rest of the public; so, we cannot see why it should be expected of the food producer. We are very glad to do what we can to produce such part of our own food supply as we are able to grow or raise, but in order to pay the production costs and to buy such other necessaries as must be secured, we are entitled to and must have a just profit to pay for our work of production when producing for others. We know that there are many of our readers who can remember when the family on the farm had to subsist on the skim milk that the butter might be sold, when most things marketable had to be sold to pay the bills



Close-up view of brooder house used on Uncle Sam's poultry farm, Beltsville, Maryland. Door is open, showing hover of the coal-burning brooder stove. Feeding boards and drinking fountain are shown in foreground. Directions for building this house can be secured from Poultry Investigations, Bureau of Animal Industry, United States Department of Agriculture, Washington, D. C.

and the family got along somehow on whatever was left, when every member of the family had to do his or her bit without pay, in order to make ends meet—which they frequently did not. It was small wonder that the children would not stay on the farm. There are not many girls or boys nowadays who are willing to milk 15 cows before breakfast and callus their hands at hard labor, without payment, so that the milk can be sold at less than the cost of the feed the cows consume. Present and coming generations are bound to be wise enough to demand justice and get it. Those who would eat will have to produce food for themselves, pay a fair profit over production costs for purchased supplies, or experience an uncomfortable touch of the "belly pinch." And it looks very much as if we would get a sample of the latter, in spite of the best that can be done, before we wake up to the situation and find a remedy.

"What should I feed the layers?" There is not a great deal of choice at the present time. Commercial ready-mixed



Champion Black Orpington hen at Great Heart of America Show, Kansas City, Mo., 1917. Owned by Dr. G. H. Humphrey, Woodbine, Ia.

scratch feeds and mashes prepared by reliable manufacturers will usually fill the bill for back-lotters who do not find it convenient to prepare their own mixtures. We are using a mixture of whole corn and whole oats, bushel for bushel, for our hard or scratch grain ration. We feed liberally, giving at one meal all they will clean up thru the day, and at the same time consume about an equal quantity by weight of mash (weight dry). With smaller flocks than we now have, if we had time for it, we would probably divide up the hard grain into two daily feedings, morning and night, giving the mash at noon. Commercial ready-mixed mashes containing a fair percentage of fish meal generally give excellent results. If the mash is fed moist, such table scraps as are available may be used in it. There should not be many table scraps nowadays. We doubt if the table scraps from our family in one year would keep three husky hens from starvation. Sprouted oats may be fed daily with excellent results. Occasional feeds of boiled or scalded oats give variety to the ration and are relished by the fowls. A good home-mixed mash may be prepared as follows: 10 pounds each of wheat

bran, flour middlings, corn meal, ground oats, and 7 pounds of either fish meal or fine ground beef scrap. This mash may be fed moist or dry. If waste vegetables are obtainable, same may be boiled soft and then mixed with the mash.

"What shall I feed the baby chicks?" This is going to prove a problem the present season. We do not believe that much, if any, of the new corn is going to be safe to feed to small chicks. Some of the most dependable manufacturers of chick foods put in a good stock of old corn to be used in their food mixtures for small and growing chicks. We would not want chick food made from kiln-dried new corn. If we can get good, sound oats and barley with some old corn and a small amount of fairly sound wheat, we shall grind this at home into chick food size, and use it and the resulting meal for small chick feeding. The meal from this grinding we shall mix with a mash mixture similar to that advised for adult stock, using equal parts of this meal from the chick food and of the mash mixture. For first feed we shall use cracker crumbs or stale bread crumbs rubbed up with hard-boiled infertile eggs—or fresh eggs if we have no infertile ones. The eggs should be well boiled. We will also feed small quantities of cooked cracked rice occasionally as variety food. Small amounts of rolled oats will be fed until the chicks are well started on the home-ground chick food. As soon as the chicks begin to get busy scratching in the litter, they should have a little box of sprouted oats daily to scratch in. Remove any wilted and withered sprouted oats which may remain at close of day and give a fresh supply each morning. Keep clean water before the chicks in a sanitary fountain that they cannot upset or fall into. Keep fine grit and fine oyster shells as well as chick size granulated charcoal before them.

"What is best litter for the brooder?" We prefer good bright cut clover or clean hay-mow chaff. Cut alfalfa will answer. We first sand the brooder floor with dry sand, then litter it with clover or chaff.

"What is the proper temperature for the hover?" The brooding temperature must always be a matter of judgment on the part of the operator. All brooder directions give a table of temperatures. Individual brooders lose heat rapidly in cold weather. Coal-heated stove brooders are usually operated in buildings which have thin walls and a good deal of heat is lost thru necessary ventilation. We believe that the best guide to temperature is the comfort of the chicks. It should not be less than 95 degrees under the hover before the chicks are put in. In severe February and March weather it is often necessary to let the hover temperature run up to 100 or even 110 degrees in order to have the chicks comfortable and active. So long as they can get away from the heated hover into the cooler part of the brooder, chicks will be safe enough. At night the heat should be sufficient to keep them close to the outer rim of the hover or with heads outside. If they bunch and huddle together they are not warm enough.

In training or "hover breaking" baby chicks it must be remembered that the little fellows have everything to learn and it is up to the operator to be patient. Tuck them under the hover often at first. Do not leave them long at a time until they learn to run back to the hover to warm up. A little care and patience at the start will break them in very quickly. Keep them quite close to the hover at first, as they learn to take care of themselves give them greater liberty but not too much at a time nor for too long at a time. Usually by the third or fourth day they will be ready to have still greater freedom and to learn to use a cooler exercise room or scratching shed. Frequent feedings are necessary the first day or two; after that four feedings a day will be sufficient.

A good dry mash to keep before small chicks may be made of coarse corn meal, bran, middlings, crushed oats, mixed with about 5 percent fine fish meal.

Many people who never before operated an incubator or brooder will use such dependable modern hatching and rearing equipment this season. Hatch and raise chickens the easiest, cleanest and most convenient way. Beginners report fine success with first attempt at artificial hatching and rearing. Join the army of food producers who will help win the war with quickly grown chickens.

MADISON SQUARE GARDEN POULTRY SHOW

By Prince T. Woods, M. D.

THE twenty-ninth annual exhibition of the New York Poultry and Pigeon Association was held in Madison Square Garden, New York City, December 28, 1917, to January 1, 1918, inclusive. The Garden Show is recognized as "America's Leading Show." Naturally, there has been much speculation as to how it would be affected by the war. Now that the great exhibition is a matter of history, we believe that it will be conceded that it was not so hard hit by war as by the unusually severe cold weather and by transportation difficulties.

It was a good big show. The cataloged poultry entries were several hundred less than last year, and, owing to difficulties of transportation, there were some empty cages due to non-arrival of the birds. Extreme cold weather thruout show week, the fuel shortage resulting in a cold exhibition hall and colder hotels, the upset condition of all kinds of transportation, all had their effect on attendance and the gate receipts were considerably below normal. Opening day was one of the best days of the show. In spite of the short attendance, or because those who would brave such weather conditions to attend a show must indeed possess a great interest in Standard-bred poultry, breeders and manufacturers exhibiting reported good business and some excellent sales.

Quality of exhibits was decidedly mixed. In some classes the quality was uncommonly good; in others there was a considerable falling off, and in some the birds below first place did not show the quality or contrast that might naturally be expected.

The United States Department of Agriculture had its usual educational exhibit in charge of Harry M. Lamon. No poultry exhibit was made by the Government farms this year, the exhibit being confined to models of poultry houses, poultry portraits, charts, transparencies, eggs at various stages of incubation and chick embryos shown at different ages. State experiment stations had the usual exhibits in the lecture hall. The poultry institute conducted by representatives of both Federal and State Government poultry husbandry departments included lectures both afternoon and evening, which were well attended. Besides illustrating and explaining various phases of poultry work, much attention was given to the stimulation of greater poultry production on farms and in back yards. Attention was called to the meat shortage, both in the United States and abroad. Increased production of poultry was urged as a patriotic duty rather than as a source of profit, that more poultry means more eggs and poultry meat, a vitally necessary food supply which is greatly needed during the coming year, and that poultry can be brought to maturity and made productive much more quickly than any other kind of live stock. Stress was put upon the great need of more eggs and more poultry meat to save beef and pork, which are required for our fighting forces and our allies.

There were less poultry journal booths than common at the Garden. Exhibits by manufacturers and dealers in feeds, poultry equipment, brooders, incubators, portable houses, etc., were about as usual.

The poultry judges were:

W. M. Anderson, Saratoga Springs, N. Y.—Anconas, Buttercups and Red Caps. W. B. Atherton, Randolph, Mass.—Cochins, Buff Plymouth Rocks and Dominiques. R. N. Barnum, Lime Rock, Conn.—Black Orpingtons. L. C. Bonfoey, Plainfield, N. J.—White Plymouth Rocks, Javas, Missouri Fluffs, Buff, Red Pyle and A. O. V. Leghorns. A. J. Braun, Syracuse, N. Y.—Polish, Sumatras and Malays. Newton Cosh, Vineland, N. J.—Barred Plymouth Rocks and Barred Wyandottes. F. H. Davey, Vineyard Haven, Mass.—Silver and Golden Wyandottes. J. H. Drevenstedt, Schenectady, N. Y.—Silver Penciled Wyandottes, Cornish and Rhinelanders. A. J. Fell, West Point, Pa.—White and Black Wyandottes. James Glasgow, Mahwah, N. J.—Game Bantams. L. G. Jarvis, Canada—Hamburgs, Dorkings, Faverolles and Silkies. John C. Kriner, Settlersville, Pa.—Exhibition and Pit Games, turkeys, geese and miscellaneous. H. L. Mapes, New York City—Rhode Island Reds and Buckeyes. W. G. Minich, Carlisle, Pa.—Blue Andalusians,

ducks and guineas. Richard Oke, London, Canada—Sussex and all Orpingtons except Black. F. W. Otte, Peekskill, N. Y.—Columbian and Silver Penciled Plymouth Rocks and all Feather-Legged Bantams. Irving F. Rice, Cortland, N. Y.—White and Blue Leghorns. A. O. Schilling, Buffalo, N. Y.—Campines, Partridge Plymouth Rocks and Columbian Leghorns. Henry P. Schwab, Rochester, N. Y.—Langshans, Brown Leghorns, Buff and Columbian Wyandottes. Daniel P. Shove, Fall River, Mass.—Dark Brahmans, Houdans and Buckeyes. William J. Stanton, New York City—Light Brahmans. George L. Young, Brooklyn, N. Y.—Clean-Legged Bantams, except Game. J. C. Williams, Fullerton, Cal.—Minorcas, W. F. Black Spanish and Black Leghorns.

Barred Plymouth Rocks were strong classes, showing remarkable uniformity and great strength of color, barring and



FIRST PRIZE WHITE PLYMOUTH ROCK HEN
MADISON SQUARE GARDEN N.Y. 1917-18. Bred & Owned By
WILBURTHA POLTRY FARMS TRENTON JUNCTION N.J.

Standard type—or perhaps we should say type and uniformity rather in advance of Standard requirements. Most of the specimens were lusty, healthy, vigorous birds, with that beautiful finish which can only be secured by careful breeding and rearing combined with skilled conditioning and grooming. In these classes there were many fine specimens, both in and out of the ribbons. Classes included 16 cocks, 13 hens, 36 cockerels, 13 pullets, 6 pens. Cockerel classes larger than last year, other classes slightly smaller except pens, which were same in number.

White Plymouth Rock classes showed excellent quality with competition strong and prizes well divided. Classes included 11 cocks, 12 hens, 18 cockerels, 19 pullets, 4 pens. About half as many specimens shown as at last Garden exhibit.

Silver Penciled Plymouth Rocks, only one cock and one hen shown. Partridge Plymouth Rocks, quality good in the blue and red ribbons; 3 cocks, 6 hens, 8 cockerels, 4 pullets, 1 pen.

Buff Plymouth Rocks were good classes with some fine color and type shown. Prizes well divided among the exhib-

itors. Classes included 12 cocks, 13 hens, 11 cockerels, 13 pullets, 3 pens. This variety about held its own with last year's exhibit.

Columbian Plymouth Rocks included 2 cocks, 2 hens, 4 cockerels, 2 pullets. R. C. Barred Plymouth Rocks, 1 cock, 2 hens, 2 cockerels, 4 pullets.

Silver Wyandottes made a good showing with type and quality excellent in hen, cockerel and pullet classes; 1 cock, 4 hens, 3 cockerels, 6 pullets. Golden Wyandottes, small classes.

White Wyandottes showed well filled classes with fine type and quality. Classes included 18 cocks, 14 hens, 22 cockerels, 21 pullets, 7 pens. Prizes well divided among exhibitors. Total of classes only a few specimens short of last year.

Black Wyandottes included 1 cock, 3 hens, 2 cockerels, 3 pullets, 1 pen. Barred Wyandottes, 2 cocks, 2 hens, 4 cockerels, 3 pullets, 2 pens. Silver Penciled Wyandottes, quality excellent in the blue ribbons; 3 cocks, 2 hens, 2 cockerels, 3 pullets.

Buff Wyandottes well represented by 6 cocks, 5 hens, 5

too common, especially in males. A few of the young females showed pinched tails and greater effort to secure tails well spread at base would be followed by improvement in appearance and perhaps in practical values as well. Classes included 32 cocks, 22 hens, 50 cockerels, 36 pullets, 10 pens. Prizes well divided.

R. C. Rhode Island Reds were strong classes of fine quality. The same criticism which applies in the Single Comb variety will apply here. Taking the classes as a whole, the color does not run quite as uniform and there were a number of birds with hackle too light or too dark for body color. Birds in the blue showed remarkable color and good type. Classes included 17 cocks, 11 hens, 19 cockerels, 19 pullets, 7 pens. Prizes well divided among exhibitors.

Light Brahmas were remarkable classes. This fine old variety has come back stronger than ever. In type, size and quality the majority of the specimens in all classes were excellent and the prizes were pretty well distributed. Some of the cockerels shown were wonderful in size of frame and breadth and depth of body, altho not fat nor in full flesh. If Uncle Sam is looking for beef substitutes he should not overlook the prolific and hardy Light Brahma—we do not know of any other breed that will give an equal amount of soft-meated flesh within six months from the shell in return for skilled feeding. Classes included 16 cocks, 16 hens, 15 cockerels, 18 pullets, 11 pens. More than twice as many birds shown as at last Garden show. In a display cage a Light Brahma hen, "Mollie Wellington," was shown with statement that she has a record of 325 eggs in 365 days. She came across the continent from Los Angeles, California, to make her bow to Garden Show visitors. She is a fairly good utility Brahma in appearance, tho not quite the equal in quality of the famous Hartnest Farm Light Brahma record layer of the late 'Nineties. No poultry show seems to be complete nowadays without its phenomenal layer of some variety and it is apparent that 300-eggers may occur in any breed. We do not dispute the records, tho we believe that such remarkable freak layers are few and far between. The only thing about the craze for record breaking which surprises us is that some enterprising poultry enthusiast does not come forward with a hen that lays every day in the year and adds an extra egg or two on Sundays and holidays. Meanwhile, when we consider that recent investigations in Connecticut disclosed that the average annual egg yield on forty-two leading poultry farms was only 97 eggs per hen, the good old 10-dozen and 12-dozen eggs per year hens look very good to us.

Dark Brahmas showed 2 cocks, 2 hens, 4 cockerels, 4 pullets, 1 pen. Quality good. Buff Cochins included 2 cocks, 3 hens, 2 cockerels, 2 pullets, 1 pen. Quality good, Partridge Cochins, 1 cockerel, 1 pullet.

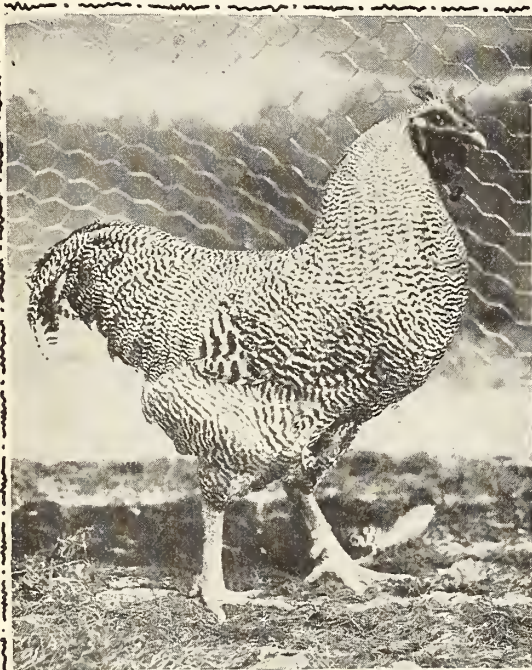
Black Langshans made an excellent showing. Type and color fine. We were glad to note among these real thorobreds that very few specimens showed any trace of white tipping in flights. As a whole, the color was good and solid thruout. Classes included 8 cocks, 8 hens, 7 cockerels, 6 pullets, 1 pen. Numbers about the same as last year. These fine birds were shown at a great disadvantage in the ordinary cages; they do not show off to advantage in such cramped quarters.

S. C. Brown Leghorns made a strong showing and were fine in type and color in all classes. Classes included 8 cocks, 12 hens, 20 cockerels, 15 pullets, 6 pens. In numbers more than last year.

S. C. White Leghorns as good or better than the Garden's best and a fine strong exhibit thru all classes. Some splendid birds in the ribbons and some wonderfully good ones unplaced. Classes included 26 cocks, 29 hens, 36 cockerels, 31 pullets, 12 pens. Not as many birds shown as last year, but quality superior as a whole.

S. C. Buff Leghorns good strong classes. Quality as a whole quite good; color not sufficiently uniform, too much tendency to beefy combs and pinched tails. We have seen better type and color at the Garden in past seasons. Classes included 9 cocks, 12 hens, 14 cockerels, 11 pullets, 4 pens.

S. C. Black Leghorns good in quality and color, with fine yellow legs in leading winners. Cockerel classes larger than last year; 2 cocks, 5 hens, 9 cockerels, 4 pullets, 2 pens. S. C. Silver Leghorns, 2 hens, 2 chl., 2 pl. (Continued on Page 227)



UNRETOUCHED FROM LIFE 1916,
BRED AND OWNED BY C. N. MYERS, HANOVER, PA.

cockerels, 5 pullets, 3 pens. A larger exhibit than last year. Partridge Wyandottes, 4 cocks, 5 hens, 4 cockerels, 4 pullets, 3 pens, totaling more specimens than last year's exhibit.

Columbian Wyandottes were strong classes showing good quality; 10 cocks, 7 hens, 13 cockerels, 10 pullets, 5 pens. A stronger exhibit than last year; competition keen and prizes well divided.

Black Javas, only one hen shown. The friends of this fine old variety should get busy and show more often. It is a pity to let so excellent a breed and one of the progenitors of some of our most popular fowls go into the discard.

Dominiques were represented by 4 cocks, 3 hens, 2 cockerels and 1 pullet. This fine old breed is still much in favor with those who want a farm or back-yard flock fowl which possesses a good combination of beauty and practical qualities. It seems to be holding its own in spite of the newer rose combed barred varieties.

S. C. Rhode Island Reds were stronger and better classes than last year, both in numbers and in quality. The tendency toward dark color—rather too dark, we think—still continues. In all classes there were splendid birds, both in and out of the ribbons. While in most sections improvement and progress is shown, there appears evidence of carelessness in the matter of deformed wings, the defect being altogether

The Fancier and His Place in the Sun

The Work Which the Fancier Has Done May Appear Trifling to Some, But About Everything Worth While Has Been Acquired by the Same Devotion to An Ideal. First Prize Article in Monthly Contest.

By E. H. Johns

IT IS NOT an infrequent occurrence in this workaday world to find real genius unheralded. I have thought of this frequently while in attendance at some of our big poultry shows. Who among us can gaze at the pen after pen of wonderfully feathered birds, the countless specimens of marvelous grace and beauty displayed in our various breeds of poultry and not wonder at the skill of man who has so perfected them? Last year, while standing in front of a pen of beautiful Barred Rocks, a man beside me remarked, "I wouldn't think those bars *could* be so even and perfect, unless a man did it himself—painted 'em right on."

The remark set me to thinking. In the first place I liked the speaker's admiration and enthusiasm in regard to the pen of fowls, but I liked equally well the thought which his admiration aroused, for certainly those bars were even, and nearly, if not quite, perfect, because a man "did it himself."

We have but to look at the cuts of poultry which were made and published as representing or idealizing the various breeds twenty or thirty years ago to appreciate what man has done to improve poultry, for we cannot doubt that the extent to which poultry has advanced in both beauty and utility is the direct result of man's painstaking and work.

There are those who laugh when the fancier "gets started on his hobby"—the perfecting of his breed. They say he is more or less one-sided, he is prejudiced, bigoted, and when you talk to him about other breeds he does not half hear what you say. His mind is filled with his own Light Brahmas, his White Leghorns or his Barred Rocks, as the case may be, and the perfecting of this breed he keeps continually in mind. He is not viewing it in the light of today but in its perfection of ten years hence. We, the poor, uninspired mortals who see the beauty of the specimen before us are scarcely aware of its slight imperfections, but not so the true fancier, since he carries ever before him the ideal toward which he is working, and nothing short of it will satisfy him. He is not doing this work on a dollar and cents basis. He is simply responding to the call from his inmost heart for the creation of the beautiful. Other lines of work may be more lucrative or demand less of his time, but that of breeding fine fowls calls him, and he focuses his best efforts upon the work.

Some may ask, "Is it worth while?" Or, "Isn't the process a narrowing one? Does it lead anywhere?" We shall not have to think on the matter at any great length to discover that but for just such enthusiasts as the breeder of fine fowls we should never have advanced a step forward in any undertaking. Not so very many years ago, a hen was a hen, and it did not matter if she was all colors mottled together, misshapen and unproductive; she was just a dunghill fowl, not much good to her owner but convenient to have when wild birds were not plentiful. We owe the present array of beautiful breeds of fowls and their increased productiveness to the innumerable and untiring efforts of a legion of small seekers, most of whom no doubt appear narrow-minded and overenthusiastic to the uninitiated. The work of perfecting the barring on a bird's wing or the graceful outline of an exhibition bird's carriage may appear a trifling and insignificant thing in itself, but about everything worth while has been acquired thus.

At one of the big shows a year ago I met an old man who had been breeding pigeons practically all his life. Perfecting a breed of pigeons had become the passion of his years and the success which had responded to his efforts but urged him on in renewed endeavor. It was interesting to watch him as he took one after another of his wonderfully beautiful birds from the coops and pointed out how perfection had been bred into the strain. "The whole thing," he said, "is in giving your best attention to the work. Of course, there must exist an undying interest in the undertaking or the attention will waver and you will not accomplish anything."

"And you call this the secret of your success in breeding fine show specimens that you were interested in and that you gave your best attention to the work?" I asked him.

"Breeding fine birds is just like any other trade or profession. If you are interested in anything you can learn how to do it, no matter how difficult it may appear. The breeder of the best birds is the man who has best focused his attention on the work. If my competitor's birds win over mine in the show-room, I know that his attention to the science of breeding has been more concentrated than mine. He has given more vital thought and effort to his work than I and he has won the honors. I have known this to happen time and time again and I believe it to be an unfailing law."

"Then you believe a man has been unsuccessful in the show-room as a result of insufficient interest?"

"Whenever my birds have failed to win in the show-room—



"Dorothea." A 10-lb. S. C. Black Minorca hen of exceptional type. Owned by Chas. G. Pape, Ft. Wayne, Ind.

and they have a good many times—I have looked upon my competitor not as the owner of better birds but possessed of a better faculty to give his undivided attention to breeding good birds, and I have gone home to my flock with a renewed interest in the possibilities of breeding fine fowls. With the force within him of a good, lively interest, almost any man can exceed accepted limits in his line of work. In the breeding of birds I believe the field to be limitless, because the interest of the true fanciers remains unflagging."

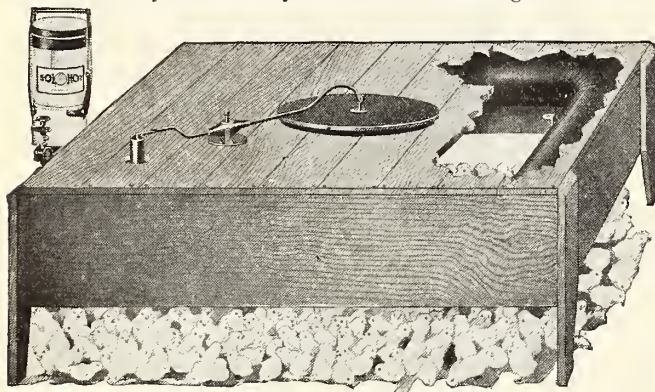
Here, then, is the secret of the marvel which fanciers have performed in perfecting breeds of fowls to their present state of beauty and economic worth. It is the old story of great oaks growing from little acorns. In the fall the seed falls to the ground; at springtime it sprouts, and little by little and most imperceptibly it grows. To the onlooker it appears to be a very trifling thing, hardly worth his attention, but thru the long years by virtue of its continuity, its destiny is wrought. Behold the glory of the mighty oak—the king of the forest! Long live the fancier!

Advancement of Poultry Interests

Inquiring Minds of Practical Men Are Bent Upon the Progress of the Industry. Second Prize Article in Monthly Contest. *By H. E. Noyst*

THERE is nothing more interesting in the history of any good which has been brought about than the fact that it comes as a result of expressed incredulity of existing beliefs. The only advance which has been made in any science or walk of life has been made by this method. The sole reason for the present wobbly foundation of the poultry industry is that we have taken the "say so" of those in authoritative places and neglected to conduct a little private experimentation on our own farms. We have allowed those who produce poultry at public expense to assume the authority of telling us the cost of producing poultry. The hope of the present situation is that producers in all sections of the country are beginning to question the "official figures" by comparing them with actual figures on their books.

The average human being finds it a great deal easier to believe what is told him than to sit down and figure it out for himself, because for many centuries his ancestors did so. In those days no one questioned the authority of those higher up. If it was announced that the moon was made of green cheese, the admiring populace nodded their heads in accord, saying, "Why, certainly; of course, it must be made of green cheese, for when the moon is full, is it not the exact shape of a round cheese?" Then and there, the question of the composition of the moon was decided until the human race produced a man with sufficient initiative to question the truth of such a statement. Other minds saw the wisdom of his incredulity and as they went about reasoning the matter



Liberty Colony Brooder Equipment made by H. M. Sheer Co., Quincy, Ill.

out, they found the only foundation for the belief was that someone in an authoritative position had made the announcement after having noted a greenish cast to the moon on a certain semi-cloudy evening, just after having cut into a round cheese which was slightly tinged with greenish mold. The incredulous man appearing on the scene, a few generations later, smashed the green cheese theory to bits by a little common sense reasoning. No doubt, in those days it was uncommon sense reasoning, tho today the reasoning sense should be common in all walks of life. The knowledge, however, probably did not become well diffused in those days for some time, because, of course, those in authority did not wish to have their decisions on important matters so lightly set aside, but in the end the incredulous man won out and established the fact that the moon was not made of green cheese.

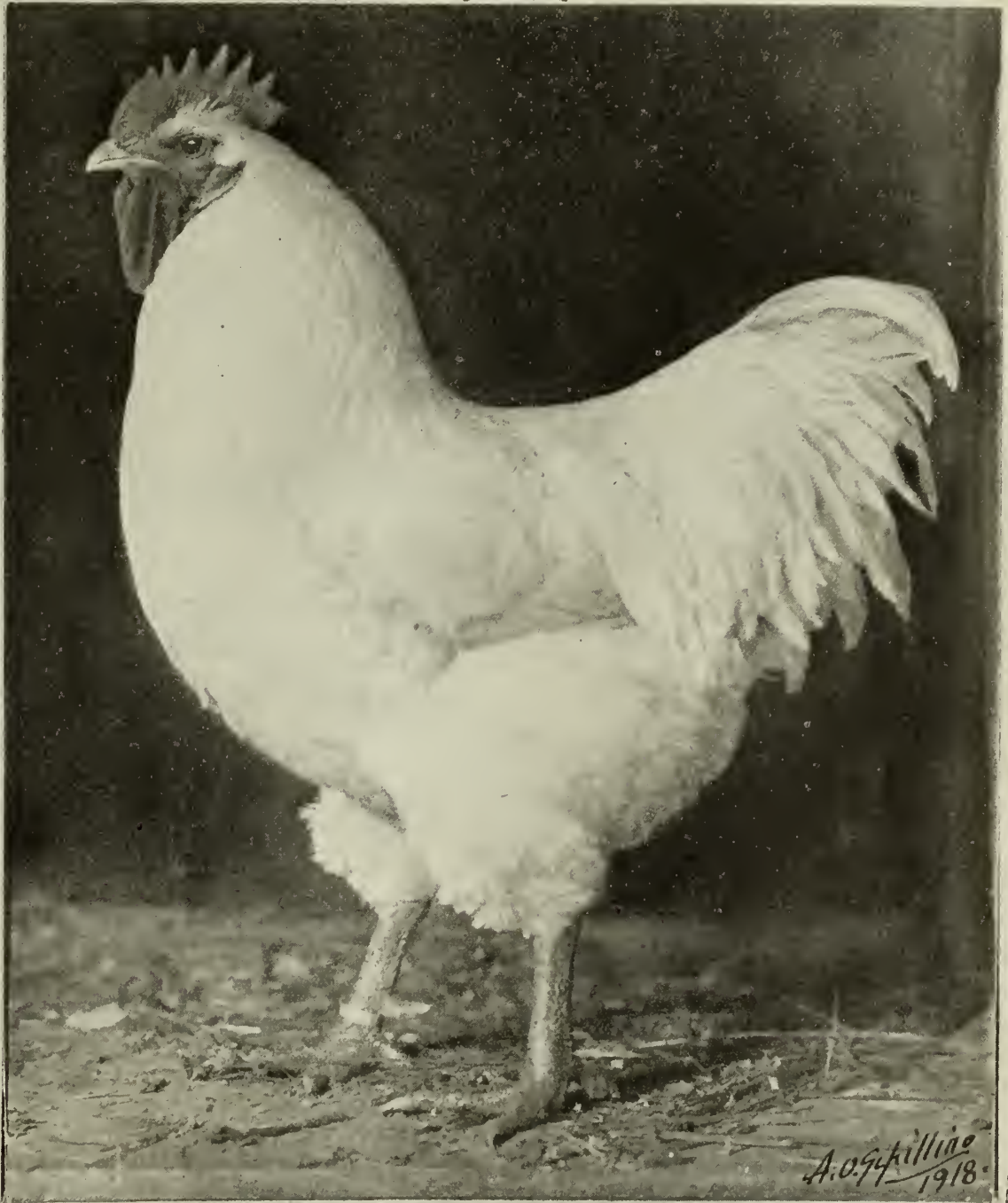
During the past year I have been reminded of this incident a good many times while reading various poultry publications and bulletins. Many of those in authority have been telling us how cheaply we can feed poultry and what huge profits we can make producing poultry and eggs, under present conditions. I read the same things in the daily papers in regard to milk production. The authorities take up the matter, investigate it and finally end by saying the moon is made of green cheese. There are a great many ways in which this statement can be made. A governor might say it one way, an inspector another, and an experimenter another, but

when we investigate these statements carefully in the light of reason, we find them all to mean that "*we have always had cheap milk and cheap eggs and cheap poultry, and we don't want a change.*" An official says that away back in his boyhood on the farm, his parents used to sell eggs for 10 cents a dozen—and just see where their son is today, a politician ranking high in that calling! The incredulous man likewise recalls his boyhood, how they drank the skim milk in order to save the cream to make butter to sell for 20 cents a pound; and he reasons rightfully that in doing so they were taking needed nourishment from themselves that others might buy food at a low price. He starts a doubt as to the wisdom of this plan. He has known what it means to be fed on skim milk, salt pork and specked potatoes in order that people in authoritative places should have cream, the best meats and vegetables, without paying much for the privilege, and he becomes instrumental in determining the cause. By this means individual experience is gleaned from various sources and the "say-sos" which have been handed around as facts are discovered to be no more than the good or bad guesses of influential persons.

I have read a number of articles from time to time in which figures were given to show immense profits in poultry raising. These figures were no doubt accepted as truth by those unacquainted with facts. They may continue to entice the unwary into the field of poultry culture for a time, but it should not be supposed that a method so plainly defeating its own ends can continue to exist. So long as these flowery statements as to immense profits were made and doubt was seldom expressed as to their veracity, the prospect for the continuance of the method was well and good. But when doubt is beginning to make itself heard on all sides, and the spirit of inquiry, as to the basic facts of these statements, bobs up its head at every corner, we may rest assured that the truth of the matter has even now been brought to light and will presently be blazoned to the world. For, in the natural order of things, following inquiry comes discovery, and immediately a fallacy is corrected the work of construction may be begun. That we are well on the way in reconstructing the poultry industry, there should exist little doubt, for while the past year has looked dark to many poultrymen, the light is beginning to break and may be observed in the written and spoken word of those in authority. For progress in poultry culture springs from the force for betterment exercised by the producer. Daily he works out his problems and in time the advances which he makes are adopted by experimenters and become widely diffused. During the past few years poultry producers in widely separated sections of the world have demanded the necessity of sane cost accounting in poultry keeping as an important step toward placing the business upon a sound basis. This is undoubtedly the most progressive step which has been taken by poultrymen for many years. When it has been put in actual operation during coming years, poultry production will be increased because it is an honest business in which a man may earn a living—and not on the slogan of the past which says to raise poultry because it is needed for food. The hope of the future lies in the fact that on every side poultrymen are working out actual problems and forming their opinions accordingly, which, regardless of their apparent insignificance, will ultimately govern the future status of the poultry industry. No amount of paid influence can stay this progress. It is as inevitable as the coming of morning, since it is the result of inquiring minds of practical men bent upon the progress of the industry. With the producer on the right road to progress, the long line of experts and experimenters, whom he supports, must follow.

The problem which confronts poultry producers is more than half solved. If we can but consider today's misfortunes in the light of the ultimate results which they will bring about, we will regard present-day losses as a fortunate circumstance.

STARKS
FARM



FIRST PRIZE WHITE PLYMOUTH ROCK COCK
MADISON SQUARE GARDEN NEW YORK — 1917-'18.
STARKS FARM STARKS ONEIDA CO. WIS.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

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United States, Cuba, Mexico and United States Possessions (except Chicago).....	1 Year 12 issues	3 Years 36 issues
Canada .....	.85	1.75
Foreign	1.10	2.50
Chicago .....	.75	1.50

Chicago, Canadian and Foreign subscriptions require additional postage and therefore the slight difference in prices.

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TRADE MARK REGISTERED,
No. 74,059.

Issued the first of each month.
Published by

**American Poultry Journal
Publishing Co.**

JAS. W. BELL, President,
542 So. Dearborn St., Chicago, Ill.

Editors.

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Advertising Representative,
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60,000 American Poultry Journals for
February, 1918.

State of Illinois, County of Cook, ss.:

Chas. S. Peterson, secretary of the Regan Printing House, Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 60,000 copies of the February, 1918, issue.

CHAS. S. PETERSON.

Subscribed and sworn to before me this
22nd day of January, 1918.

(SEAL)

ALICE A. SHEHAN

Notary Public.

The Busy Season Begins

Now that the big shows are over, the breeding pens ready for business, the early hatches started, the busy season for poultrymen has indeed begun in earnest.

We believe that it is going to prove a very busy season indeed, with good business for those with sufficient initiative and energy to go after it in the right way. Vigorous, aggressive business methods, truthful advertising, and a square deal with satisfaction for all customers, should be the rule.

Remember that the rule of the big mail-order houses, and the most successful big department stores, is that "the customer is always right," no matter how unreasonable he may seem to be. That rule works out best in the end. Most people are honest. If they were not, the jails couldn't hold the crush that would overrun them. Satisfy the customer first, last and all the time. Even if he is "trickey" and has tried to take advantage of you, you lose nothing by "making good" with him, and you may shame him into being the greatest "booster" for you that ever happened in his home town.

This is going to be a year of big expenses and heavy taxes. The Government is going to need money and more money. The Red Cross, and other worth while causes, are going to call on you for still larger contributions. You must do your bit. You can only do your bit by doing business and still more business, business to the limit of your capacity, business at a profit. The more profits you can show in the business the more you can do to help win the war.

It is all well enough to talk about thrift and economy. Both are good in their place and both are now necessary to a

degree. But we must buy and sell, we must keep spending, keep money in circulation, keep business going to the utmost limit of our ability. If business stops everything else will have to stop, for there will be nothing to go on with. Thrift and economy are good if practiced with practical common sense, but we cannot afford to confuse them with parsimony. This is no time for "cheese paring methods" and "stocking bank hoarding." We must be good producers, good buyers, good spenders, in order to keep business up to concert pitch.

Be careful how you list things as non-essentials and attempt cutting them out. Every business hinges on every other business, all our individual interests overlap and intimately concern one another. The sooner we learn that we are all one big family, dependent upon each other's success, the better it will be for us all. Things that were non-essential in grandfather's day, or even in dad's day, are necessities today, often vital necessities in every-day work and business. Go slow in condemning non-essentials. Money is one of the things most needed to win this war. We think we are spending big sums now, but when we really get started we are going to open our eyes—wide! No legitimate business is non-essential if it can make money. Food and money are the sinews of war—quite as important as man power. Do not forget that!

Will Make New Fanciers

Uncle Sam has started recruiting stations thruout the country that are certain to bring new "rookies" into the poultry fancy, who will make new fanciers. Of course our Uncle Samuel's extension poultry husbandmen and county agents, who are recruiting back-lotters and farm-



ers into the ranks to "raise more poultry," are seeking chiefly to increase food production, to get maximum results with needed quick-grown food in the shortest possible time, but *they are recommending Standardbred poultry.*

Every time a flock of Standardbred poultry is placed in a back-yard or on the farm it helps the Standardbred poultry industry. Once you get a man or woman inoculated with the real "hen fever"—and it certainly is very contagious—there you have a potential fancier. Develop the prospect in the right way, help the beginner to succeed, and you have added strength to the foundation of the poultry industry. The new recruit may not qualify or he may quit, but in most cases with proper encouragement he will "come back." Once well bitten with the "hen fever bug" there is no cure. Sow a little of the seed of real-fancier-interest in any fertile mind and the plant will thrive and flourish while life lasts. You cannot kill it. It may fade and seem to pass for a time, but it crops out again stronger than ever. We can count many friends who are still with us, or who have passed beyond, whose enthusiasm in poultry is one of life-long interest. If the whole fraternity could only get together, develop unity of purpose and effort in efficient co-operation for the good of all, put just a share of the enthusiasm of each into common sense team work for the safe and sane development of the Standardbred poultry industry, poultry would "go over the top" to the greatest success and progressive accomplishment, taking its proper place in the productive world on a firm and lasting foundation.

Much will depend upon how we meet and treat the beginners, the new recruits who are fanciers in the making. Let us not forget the good old-time fancier-breeders of the early 'eighties, their kindly and helpful interest in novices, their efforts to help beginners to succeed both as breeders and exhibitors. We are greatly in need of more of that same kindly and helpful interest today. These are busy and strenuous times, everybody is speeding up, and the cry is ever "more speed," but we need to take time for others, to give a little more thought for others, and to lend a helping hand.

Real Fanciers and Others

We particularly enjoy the big poultry shows. One learns much at these big exhibits besides the progress of the fashions in Standardbred poultry.

The recent Madison Square Garden Show was no exception to the rule. In spite of the unfavorable war and weather conditions under which it was held, one could not help gaining renewed interest and belief in the progress which must come in the poultry breeding of the future.

One had ample opportunity this year to study the various exhibitors and their methods, more time than usual because of the light attendance and the freedom from big crowds. It was a fine opportunity to observe and compare the real fanciers with the other kind. The uncommonly cold weather and the chilly exhibition hall added to our opportunity for sizing up men and methods as well as their birds.

Most of us have been too ready to accept the often expressed opinion that some of the big breeders are not fanciers but are really commercial poultrymen who place the dollar sign above all else. That

opinion needs revision. There have often been unpleasant remarks about men who win on their exhibits season after season, and some have doubted the judges. Were not these remarks and doubts prompted more by envy and jealousy than any sound reasoning? We believe so.

We followed closely several of the consistent winners and noted their methods, listened to their discussion of their birds. One could not doubt such sincere enthusiasm and engrossment in the birds of their fancy. You could not get them away from the subject of their "chickens" and their plans for progressive development. They sought out minute defects that would pass unnoticed even by an ordinarily skilled observer. This was true not only of some big breeders, "master breeders" if you please, but clung like a mantle to the shoulders of many of the younger fanciers who were still new to the pleasurable excitement of making a good win at the big show.

Actions speak louder than words and this occasion was no exception. These men, big breeders and little breeders, proved their right to the title of fancier by the way they cared for their exhibits in that cold and uncomfortable exhibition hall. Before the judging all exhibits received abundant care and attention, but afterward—that told the story. The real fanciers continued the care and attention throughout the whole show; they carried it up to the time of closing, and afterward made sure that their birds were properly and comfortably prepared for shipment home and safely started on the way. And some of these big exhibitors and little exhibitors, who have been criticised as "commercial," qualified then and there as real fanciers, whose interest in their birds is not wholly concerned with the advertising value of the winnings.

But, we are sorry to say, there were others—men who like to class themselves as fanciers but who failed in the test and did not qualify. When the coveted prizes failed to come their way they lost interest in their birds, the cages were neglected and left to the mercy of the show attendants, there was none of that solicitude for the fowls when night closed the show, little care and consideration for the birds when the show was over and the poor things, who were not to blame for their failure to get inside the most coveted ribbons, were hustled unceremoniously into their shipping coops and left to the tender mercies of the expressmen with little or no kindly care and preparation for the difficult and unpleasant home journey.

There are many things which may be noted and learned at the big shows, and not the least of these is the difference in men and the wide difference between real fanciers and the other kind.

Egg Famine Predicted

Press dispatches dated January 2, 1918, contained a statement said to have been issued that night by W. S. Priebe, head of the poultry and eggs division of the Federal Food Administration, to the effect that an egg famine threatens the United States.

This statement declared that from September 1 to January 1, 85 percent of the supply of cold storage eggs was consumed and that the other 15 percent will soon be gone, with no relief in sight, as the supply cannot meet the demand. Cold weather added to the difficulty. Another explanation of the

shortage was a statement to the effect that "the cost of feed for each hen has jumped over 100 percent."

The following is given as Mr. Priebe's advice as best way to meet this situation: "We have got to cut down egg consumption or else suffer a fast approaching famine. The people in the cities should do like the country folk, not buy eggs when the price is out of reach. When eggs are scarce the country folk only serve them once a week and then on Sunday morning. The people must have eggs and there is no relief in sight."

We certainly do not agree with Mr. Priebe's plan to ward off an egg famine by cutting down consumption. If people stop buying eggs now because prices are higher than in normal times, altho present egg prices barely pay cost of feed consumed, now that the egg flow

is making the usual January increase, and in some cases do not pay back the cost of feed, then we will indeed have a most serious egg famine. The only way to prevent an egg famine is to stimulate consumption, to encourage people to eat more eggs, to substitute eggs for meat where possible, for eggs at present prices are cheaper than meat and better food value for the money. Stimulate the demand for eggs to get increased production. It is not true in our section that "country folk" are eating less eggs; we believe that more eggs are being eaten at or close to point of production this winter than usual, for those who produce eggs realize that eggs are about as cheap food as can be found in the market at present prices.

Mr. Priebe's view is quite a natural one for a man with his experience and

TO OUR READERS.

Our subscribers are our friends and we use every effort to protect them in every way. We believe that every advertisement in this issue is signed by trustworthy people, and to prove our faith we will make good to our subscribers any loss sustained by virtue of their having purchased fowls or goods from one of our display advertisers.

All we ask is, that in ordering the fowls or goods, you mention to the advertiser that you saw the ad in American Poultry Journal; also that the purchase be made during the month or months in which the ad is inserted, and in case of loss notify us of the fraudulent misrepresentation of the advertiser, giving us full particulars as soon as it occurs. In all cases in writing to advertisers say, "I saw your ad in American Poultry Journal."

training. Before he took a responsible and thankless job at one dollar a year with the Food Administration, his business was buying eggs and poultry as cheaply as possible and selling them at a profit. A legitimate and necessary business, but not exactly in sympathetic understanding with the poultry producer's difficulties. He is president and manager of the firm of W. F. Priebe & Co., Chicago, dealers in poultry and eggs, middlemen, with a big string of poultry packing houses in Missouri, Iowa and Illinois. This concern handles millions of pounds of poultry and millions of dozens of eggs annually. Very naturally they exert a bearish influence on the egg market at this season of the year, for later on they will want to get eggs into cold storage at as low a price as possible in order to keep up the profits in their business. No concern representing "big business," such as these packers conduct, is feeling any great patriotic itch to do business at a loss, no matter what may be expected of the men who really produce the eggs and poultry.

When any man leaves his big business interests to volunteer in a responsible and much criticised government job, that means much hard work and only a dollar a year compensation, it is a safe bet that he is either very sincere and enthusiastically patriotic, or he sees an opportunity to protect and benefit the particular business in which he is vitally interested. Possibly a little of both, but in the latter case alone it is a very natural and human instinct. Self preservation is a natural law and are we not told, "Where our treasure is, there is out heart also?"

Eastern cold storage dealers do not agree with Mr. Priebe's view of the situation. They call attention to the fact that cold storage eggs in the East are more plentiful than usual, that Government figures for December 15 show



A description of my

Single Comb White Leghorns

Extra Special Matings, Pens 1 to 5

The choicest matings, I believe, in all America. Each and every individual in these five matings has been critically selected and carefully mated to produce the highest possible excellence attainable. These matings have produced the majority of the many winners furnished my numerous customers during the past season and the winners in my own hands at the great National All Leghorn Show, November, 1917, and are practically, with but few exceptions, exactly the same birds I had mated in these pens last season. These are the pens that will produce my champions for the coming season; they will produce that long, wide back, with low well-spread tail, neat five-point combs, pure white almond small lobes, pearly, absolutely white plumage—**and size**; all of the females in these matings weigh from 4 1/2 to 5 1/2 pounds each. The males are great big, husky, vigorous fellows and have the best disposition I ever saw in a White Leghorn. If your flock needs improvement in size, in type, in color, and especially in head points, it will be to your entire advantage to place your order for a few matings of these eggs. Egg records range 245 to 292. Eggs—\$15 per setting of fifteen. Chix—\$2 each.

I have other quality matings at \$10 and \$5 per setting, and special utility egg matings at \$2.50 per setting. For a complete description of my many winnings in the show room, as well as the egg laying contests, write for my beautifully illustrated catalog, which is now ready for distribution. Do it today, right after you finish reading this ad., so you will not forget about it.

HILLVIEW FARM Box 27, LINCOLN, MO.
C. J. LABAHN, Owner. TOM COCHRAN, Manager.



First Display, Chicago 29 Birds Shown 29 Birds WON



With 29 White Orpingtons at Chicago Coliseum, Dec. 3-8, at the American White Orpington Club Show, Woolery Farm won the most coveted prize—Best Display. 29 birds shown and 29 birds winning is our proof of uniformity in Woolery Farm STRAIN. No other breeder has equaled such a record as this. For ten years we have line bred for Standard Quality—Stay White Color and 200-egg record hens. TODAY we offer YOU an established STRAIN that will reproduce uniformly

THE BEST WHITE ORPINGTONS

They lay and win because they are BRED to do it. Send to us for Cock, Hen, Cockerel, Pullet or Pen for breeding or any show. We have the birds at prices that will please you. Eggs to hatch your next season's winners now ready for delivery from the best White Orpington pens ever mated. Catalog-mating list free.

WOOLERY FARM Box A **BLOOMINGTON, INDIANA**



Fashion Plate Buffs

Eggs Eggs Eggs

We have the finest lot of birds mated that we ever owned—this means much to you.

\$15 eggs for \$10, \$10 eggs for \$5, \$5 eggs for \$3 per setting of 15
Incubator lots of 50 from well mated yards \$8, lots of 100 \$15

Order direct from from this ad. *Catalog Free.* 70 well finished cockerels of excellent quality, \$10, \$15, \$20 and \$25 each. Plenty of hens and pullets. Let us supply you.

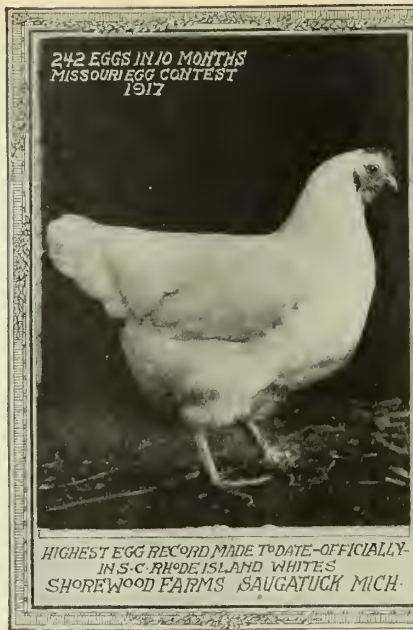
A. E. MARTZ Buff Orpington Specialist and Judge **Box A, ARCADIA, IND.**

an increase in holdings of storage eggs of more than 20 percent over holdings of same date a year ago. In Boston the holdings of cold storage eggs are stated as more than double those of last year on same dates. While new-laid eggs are holding at prices from 30 percent to 40 percent higher than same January dates in 1917, the market is fairly firm and demand and supply are about equal. Altho there is undoubtedly a very considerable shortage of hens and pullets, receipts of fresh eggs are improving somewhat. Mr. Priebe's advice to consumers to use fewer eggs is considered unnecessary here from the marketman's viewpoint. From the producer's point of view, the Food Administration should do all in its power to increase the consumption of eggs and poultry and so encourage producers. A falling off in demand at this time, when incubators are being started up to hatch chicks for early pullets, is certain to discourage producers and to result in decreased production in 1918. If our production meets further discouragement then we may indeed look for an egg famine before the close of the present year.

It is most unfortunate that, with the Department of Agriculture making extraordinary effort to stimulate and increase production of poultry and eggs, the Food Administration should do anything which may result in discouraging production. Production and prices are very closely related. It is a great pity that our national work on production and prices is not under one efficient authoritative head, instead of having one department to promote production without regard to prices and another department devoted to an effort to make prices lower to consumers. We are going to learn something by experience, but we may have to pay a very costly price for the lesson.

Union or Sectionalism, Which?

Most of the troubles in this world come from misunderstandings. The better we know one another, the better we understand one another and the conditions under which each lives, the less likely we are to develop bitter differences. Human nature is pretty much the same wherever found, even the uncivilized savage is a pretty good fellow when you get to know and understand him. Every man is a champion for his particular locality; the Boston man looks upon his favorite city as the source of everything that is desirable—at least he appears to do so when traveling in other parts—the St. Louis man feels and acts the same way about his own town. We are all of us prone to develop very easily



more than a trace of sectionalism. If we did not use a common language we might easily go to much greater lengths.

In the beginning the whole earth was of one language, but when imagination and ambition led to the attempt to build the Tower of Babel, "whose top may reach

into heaven," a confusion of tongues was placed upon the people preventing the work, because they could no longer understand one another and they were scattered abroad upon the face of all the earth. Even at that early date it was recognized that a people with one lan-

Smith's White Leghorns

ELEVEN of the winners in the single classes and four of the winning pens at the *Chicago Coliseum Show, December, 1917*, including three firsts and two seconds, were either furnished by me direct or hatched from eggs I furnished customers. This, together with my win of all six firsts, best display and best cockerel in the show (all varieties competing) at *St. Louis, January, 1918*; and my win of four firsts, best display and grand champion male (all varieties competing) at *Greater Chicago Show, January, 1917*, should convince you of the real quality of my strain. My matings for 1918 are even better than last year, and they will produce winners for you! New catalog sent free upon request. Eugene Smith, 317 Galena Blvd., Aurora, Ill.

Myers' Barred Plymouth Rocks

Lady Beautiful Strain



A 1917 "Lady Beautiful" Pullet.

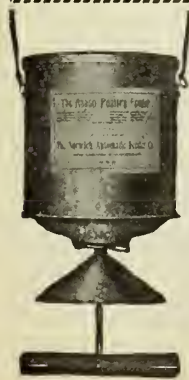
Win annually at Madison Square Garden, New York, Philadelphia and Hagerstown.

If you want to raise winners, I can furnish you breeding birds to produce them. Personal attention given to mating pens and trios to produce exhibition females. Mention A. P. J.

C. N. MYERS

BOX A

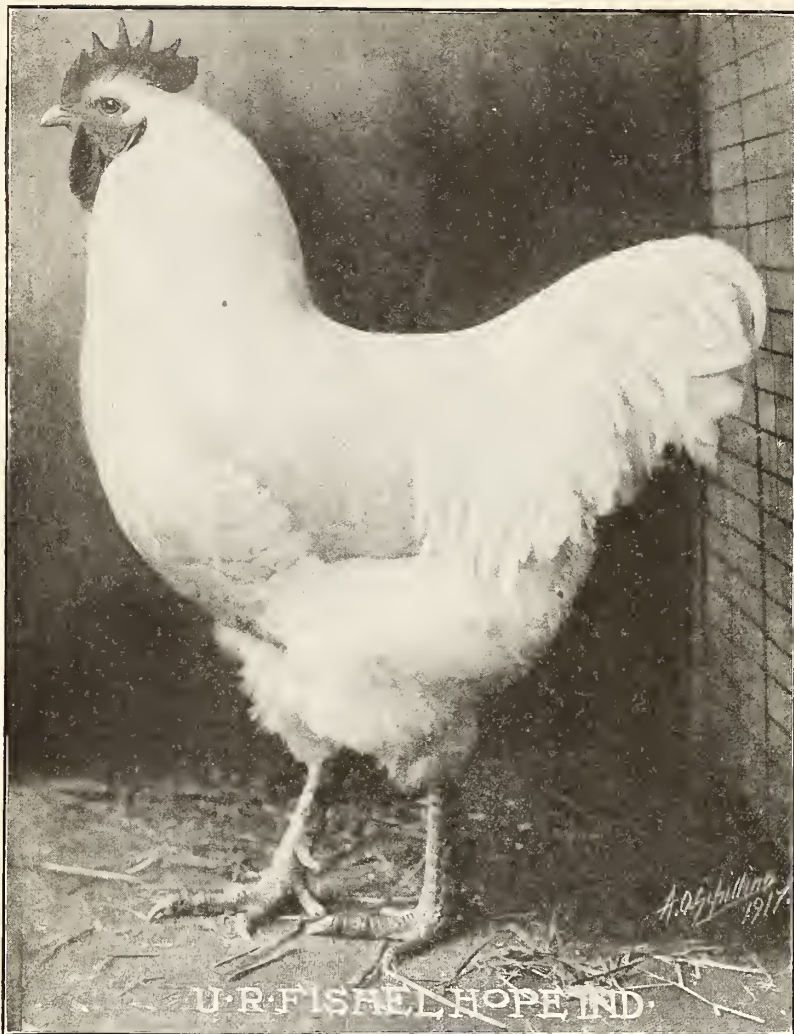
HANOVER, PA.



APACO
Automatic Poultry Feeder
SAVES
feed, labor, time, worry
GUARANTEED

Order from your dealer—direct from us if necessary
Complete catalog FREE

The Norwich Automatic Feeder Company
21 Trumbull St.
New London Conn.



First prize White Plymouth Rock cock, Chicago Coliseum Show, December, 1917. Owned by U. R. Fishel, Hope, Ind.

guage is one people and that they may not be restrained from whatever they have imagined to do. Different languages, a confusion of tongues, is a mighty power to divide and scatter peoples and cause misunderstandings.

Do we want a united or a divided America? There would seem to be but one answer to that question. In this time of unprecedented national peril we certainly need the strength of unity, to be in fact and thought a united people.

Our law makers appear to have made a great mistake, probably unwittingly, but nevertheless a grave error which may lead to splitting up America into "half a dozen sections weak with the ills and evils of sectionalism." Divide the people in this way and shortly we will have confusion, misunderstandings, and another Babel. The present revenue bill, now up for reconsideration, carried with it an unfortunate bit of postal legislation, which divides the country up into "zones" and increases the average carrying charge upon magazines and periodicals from 50 to 900 percent. This will destroy a large part of the periodicals of the country. Readers will lose many magazines which have kept them informed on national matters, kept them in touch with other readers in various parts of the country, helped in their work, and created better understanding and greater unity of our whole people. The new law is virtually a fine upon the reader, penalizing him for living at a distance from a great publishing center. If the "zone" system law prevails it will result in splitting the country up into sections, each developing sectional ideas. We, who now through our magazines and periodicals are one big national family, will be divided and scattered because of less opportunity for mutual intercourse through nation-binding periodicals which serve us all alike and disseminate helpful ideas among us all.

Do we want a united America, strong in the strength of unity and like interests, understanding and working cooperatively with one another, "One for All and All for One?" If so, we should not let our post office department be used as a tax gathering contrivance when it was designed to give equal service to all at the same rate. Put a tax upon "profits" even if it must take all profits beyond the cost of keeping busi-

S. C. White LEGHORNS AN UP-TO-DATE 1918 WINNING

20 birds out of 26 entered placed at the Greater Chicago Show at Dexter Pavilion, January, 1918. We operate a large commercial plant, as well as breed exhibition birds. We produced 176,022 eggs during 1917 and of this amount 30,010 were produced during the winter months of January, February, October, November and December. We have exhibition and breeding stock for sale. Place your order early for baby chicks and hatching eggs, as the demand is sure to exceed the supply.

MEADOW LARK FARM

T. W. Taft, Prop.

Box 3, Route 3, ELGIN, ILLINOIS

Regal Dorcas White Wyandottes

Profit or Loss

These are strenuous times for the Poultryman and to make your Fowls show a profit requires more careful management than ever before.

Regal Dorcas White Wyandottes, with generations of vigor, prepotency and heavy egg production back of them, are showing a good profit in the hands of thousands of poultry keepers all over America. One customer, who kept the Regal strain and one other leading strain in his yards, writes me that from his advertisement in the poultry journals he received twelve times as many inquiries for birds of the Regal strain as he did for the other strain. He therefore decided to keep nothing but the Regal strain. I have had scores of letters from customers with similar experiences, proving that the Regal strain today leads all others in popularity.

If you find difficulty in selling your surplus stock and if your birds are not showing a profit, why not give the Regals a trial? They have been a profitable investment for others and they will be for you.

5000 Cocks, Hens, Cockerels and Pullets For Sale 5000

SPECIAL—500 beautiful exhibition cockerels and pullets ready now to win the blue ribbon for you. 300 well matured cockerels from my heavy laying Dorcas line, \$8.00, \$10.00, \$15.00, \$20.00 and \$25.00 each. Dorcas pullets, \$4.00 and \$5.00 each. Breeding pens (male and four females) \$20.00, \$25.00, \$35.00 and \$50.00. Vigorous utility cockerels, \$4.00 and \$5.00. Order at once and get first selection.

Send one dime for the Regal White Wyandotte Book, telling all about the Regal strain. **FREE**—My catalog and mating list is free if you will send me your name.

JOHN S. MARTIN

Box 51

Port Dover, Ontario, Canada



First Prize Cock at Madison Square Garden, December, 1916

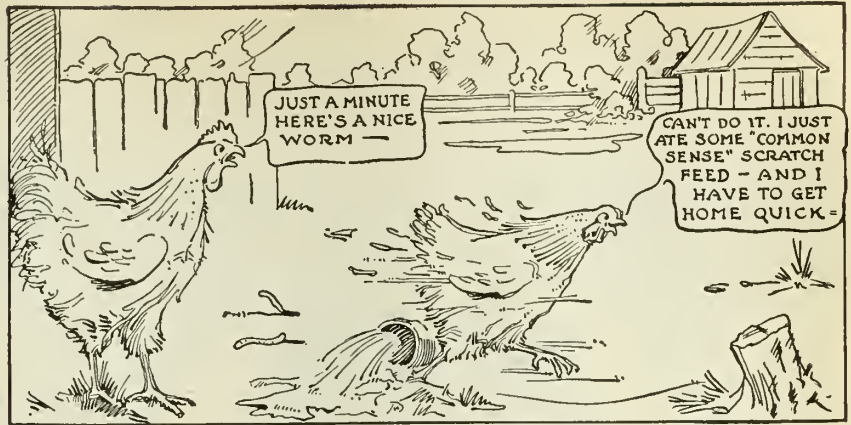
ness going, but do not deprive the people of the clean publications which have helped to educate them, bring about better understanding of one another, developed unity and national strength. If you want a united America, an America undivided and strong in the strength of unity, then use your influence with congressmen and senators to that end.

Modern peoples are bound together by ideas, by fundamental ideas held in common by all, by the exchange of thought, ideas, and experience, so that distantly placed people may understand, appreciate and sympathize with each other. With all its faults the press of today is the greatest instrument and medium for the dissemination of ideas which bind us together and make us a united people. The press has made it possible for the "under dog" to get a chance in the world, it has been a great leveler of caste and classes. Without the help of our educational press we might be confined in the prison of sectionalism or even stuck fast in the ancient mire of medieval feudalism.

We cannot afford to economize in our reading matter. We should read more rather than less, in order that we may better understand one another and make greater progress in the world. One of the greatest educational factors of the present time, the thing that beyond all else will help to cement all peoples together in a bond of unity and understanding, is the broadcasting of helpful publications and the exchange of ideas and experiences therein. Read more. Write more often for publication. Exchange experiences and ideas with your fellow workers. Do your bit to promote and develop your own trade publications. A united people, of one language, may not be restrained from whatever they have undertaken to do.

Easier Grain Prices.

LAST November and again in December, W. F. Priebe, of the United States Food Administration, publicly expressed the belief that "poultry feed will be from 40 percent to 50 percent lower by January 1 and thereafter." This statement was amplified to convey the impression that at present time—January 10, 1918—poultry feeds would be selling



More Eggs—More Profits

Two years ago it cost about 18c to produce a dozen eggs that sold for 40c. Now it costs about 30c to produce a dozen eggs that sell for 65 to 70c.

Figure it out yourself. Does it pay to be a poultry raiser today? The answer is—it pays just about double what it ever did before.

Common Sense Scratch Feed and Egg Mash Are Guaranteed to Increase Egg Yields

They contain the proteins, carbohydrates, fats, etc. of which eggs are made. Just "pick-up" feeds or feeds mixed without regard to food balance do not give maximum results. They cannot for they do not contain the stuff from which eggs come.

A guarantee of better results goes with every bag of Common Sense Feed. If you don't get the better results we buy back the feed and pay all charges for transportation.

Common Sense Prices

(Subject to change without notice. Refund allowed on market decline)

Common Sense Scratch Feed	Common Sense Egg Mash
\$3.75 per 100 lbs. in ton lots	\$3.25 per 100 lbs. in ton lots
3.80 per 100 lbs. in 1000 lb. lots	3.30 per 100 lbs. in 1000 lb. lots
3.85 per 100 lbs. in less than 1000 lb. lots	3.35 per 100 lbs. in less than 1000 lb. lots

THE FAMABELLA COMPANY

(Incorporated)

Dept. 4 1105 Grand River Ave. Detroit, Michigan

OUR NEW POULTRYMAN'S ACCOUNT BOOK will help you keep a daily record of your flock for one year. Price 25c American Poultry Journal, 542 S. Dearborn St., Chicago.

Yes, Parks' Bred-To-Lay Barred Plymouth Rocks Have Been Bred for Eggs Since 1889



That's why they are conceded to be America's Oldest Laying Strain. They easily out-layed the 2600 birds in the five Missouri Laying Contests, officially making them America's Greatest Layers, as these contests were made up of the best layers from 37 states and eight foreign countries. Also **Winners of the Three Silver Cups for Heaviest Winter Laying**—December, January and February. After all it's really the winter laying that counts. The sparrows lay in summer. You've read our advertisements longer than any other bred-to-lay breeders. That hundreds with broader laying claims than ours should come and go seems strange. Yes, Parks' Rocks are now being fed by the third generation of Joes. High normal laying is our stronghold. A flock of 128 averaged 208 eggs in a year. In phenomenal laying they have records up to 290 eggs and the greatest sworn continuous laying record of 148 eggs in 148 days was made by a Parks' Rock. Heavy laying is bred in the strain and the name Joe in the family.

We've Got the Utility and Standard Qualities in the One Nest

At Johnstown, Pa., Jan. 8-12, we won: 1st utility pen, 1st heaviest brown eggs, 2nd best brown eggs, 1st and 2nd exhibition hens, 2nd and 3rd cocks (82 Barred Rocks competing.) They are at Washington, D. C., Jan. 15-19 and Rochester, N. Y., Jan. 25-29. Watch their winnings in both Utility and Exhibition Classes.

CHOICE COCKERELS and BREEDERS—Shipped the new way, insuring prompt delivery.
EGGS FOR HATCHING—Scientifically packed, guaranteed safe delivery.
DAY-OLD CHICKS—Shipped at your risk. Where possible we advise buying eggs.

Orders booked on 20 per cent deposit. Stock circular, Egg and Chick Circular Free. 40-page Catalog a Dime.

J. W. PARKS

Box J

ALTOONA, PA.

at about half the prices asked in the late summer and early fall of 1917.

We are still waiting for the fulfillment of this prophecy. Corn is somewhat easier in price, but the quality is

much inferior to the old corn. On January 9 there was further talk of lifting the maximum price limit of \$1.28 placed on corn futures by Chicago Board of Trade some time ago. No one can pre-

dict with any certainty what future grain prices will be, but unless price-fixing interferes, which is quite possible under present conditions, we cannot look for any great change. We had hoped that we would have less price fixing rather than more of it. The fixing of maximum prices always has a discouraging effect and a tendency to make it difficult to secure supplies. The plan has not seemed to work well in Britain and we are told that right now the food and feed shortage in both England and France is the worst it has been since the war began. There is strong probability that there will be compulsory rationing of the people. Lower prices will not do us any good in this country if the price fixing makes it difficult or impossible to secure supplies, as well as having a discouraging effect upon production.

While the corn situation in the mid-west corn belt is disappointing, the news from southern states is encouraging, for several sections there report good harvests and unusual grain production. Crop reports dated the last of December give following returns in brief:

Illinois—Considerably more soft corn than at first believed. Soft corn bringing \$1.15 per bushel. Good sound corn selling as high as \$2.18 per bushel.

Indiana—From 30 percent to 50 percent of corn soft. New Corn \$1.25 per bushel. Old corn \$2.25 per bushel.

Ohio—A large part of corn crop unhusked. A good deal of soft corn in all sections.

Kansas—A large percentage of soft corn.

Oklahoma—Shortage of feedstuffs.

Mississippi—Corn fair and bringing good prices.

Missouri—Crop reported equal to average in southern half of state. A good deal of corn still in the field. Considerable soft corn in northern part of state which is being shipped out at \$1 per bushel.

Michigan—New corn poor, difficulty experienced in securing corn good enough for seed.

Alabama—Good corn crop reported, price \$1.55 per bushel.

Maryland—Good corn crop.

Wisconsin—Much poor corn.

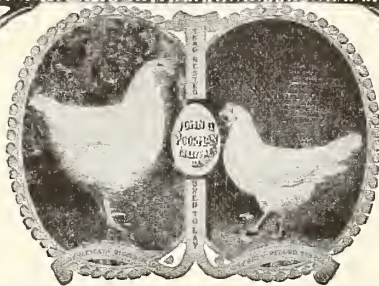
Nebraska—Corn crop poor and much not yet harvested.

Minnesota—Very little of corn matured sufficiently to keep. Soft corn being shipped in from Iowa for stock feeding.

Iowa—Ninety percent of corn crop harvested. Very large percentage of soft corn. Much spoiled and moldy. Very little corn that can be carried over into warm weather.

POORMAN'S 200 EGG STRAINS

THE
WORLD'S
BEST
LAYERS



LADY ALFARATA BUSY BESS
Record 301 Eggs Record 285 Eggs

TRAP-
NESTED
200 EGG
STRAIN

Stock, Eggs & Baby Chicks

from my Improved Laying Strains of

White and Barred Plymouth Rocks

Rose and Single Comb Reds

White and Buff Orpingtons

S. C. White Leghorns

White Wyandottes

and your careful attention will mean your success. I am offering you Stock, Eggs and Baby Chicks from the same stock that has proven entirely satisfactory to thousands of my customers in this and many foreign countries.

My 18 Years

of practical poultry experience has been incorporated into my bred-to-lay strains in such a manner that brings forth unsolicited hundreds of repeat orders from customers of many years standing. My catalog contains descriptions of my plant by representatives of the leading poultry publications, reports from many of my customers, and also my methods of breeding, care, and management. It is fully illustrated, and very instructive, and will prove to you that my prices on eggs at 15c and 30c each, baby chicks at 25c and 50c each, and breeding and laying stock at \$2.50 and up, are very reasonable.

Start right, by writing for my instructive catalog today. — It has helped others and will undoubtedly help you.

JOHN G. POORMAN, Box 100, Tinley Park, Ill., U. S. A.

WYCKOFF'S S. C. WHITE LEGHORNS

Acknowledged Everywhere the World's Greatest Laying Strain—Unequaled in Standard Qualities

Remember that we are the originators and for 35 years specialty breeders of the justly celebrated WYCKOFF Strain of S. C. White Leghorns, the most profitable strain of poultry in America today. Place your orders at headquarters and make no mistake.

Eggs for Hatching

from the most carefully selected matings. Our breeding pens this season are made up with the finest lot of stock that we have ever owned. For size, strength, vigor and laying qualities, together with the true Leghorn type, they are unequalled. Place your order early and get in line with the most profitable era ever known in the poultry business. Send for free catalog, giving prices and complete description of the stock, together with testimonials from satisfied customers in all sections of the country. Address

C. H. WYCKOFF & SON

AURORA, CAYUGA CO., NEW YORK

South Dakota—Considerable poor and soft corn. Crop not in as bad condition as at first believed.

Shortage of farm labor is reported everywhere and much talk of seeding down to grass and less acreage in crops.

January 9, Chicago cash corn prices were \$1.65 for No. 4 corn and from \$1.40 to \$1.55 per bushel for lower grades. Oats were from 80c to 82c per bushel. These being wholesale car lot quotations. Wholesale price in eastern markets on corn to ship from west was \$2.05 per bushel; oats 95c per bushel.

On January 10, at Anchorage Farm, whole corn—new kiln dried No. 4—cost us \$2.26 per bushel; oats \$1 per bushel; middlings \$2.56 per 100-lb. bag; dry mash \$4.46 per 100-lb. bag. Our flocks shelling out eggs in fine shape, just about broke even on cost of feed consumed with eggs wholesaling at 70c per dozen, this being record for week ending on date named.

From the above it appears that Mr. Priebe as a grain price prophet has not helped us very much. Maybe the good is coming later, but we cannot see where in lower prices are going to help much in face of present conditions and world-wide shortage. High prices are necessary to bring about increased production which is greatly needed. There appears to be good and sufficient reason for high prices on grains as well as for other necessities. Instead of complaining it would be better to face the situation and make the best of it.

Corn is a bit easier, as the crop begins to move more rapidly in the market the prices may fall somewhat lower. But corn is not "cheaper" and it is not likely to be half last fall's price unless the price is so fixed arbitrarily. Soft corn at \$1.15 to \$1.50 per bushel, or new kiln-dried corn of No. 4 and No. 5 grades at from \$1.65 to \$1.90 per bushel, or same corn at \$2.26 per bushel—the price to eastern poultrymen—is not really cheaper than old corn has been when food value, keeping qualities and safety in feeding is considered.

From all present indications the poultryman may assume that conditions the coming season will remain much the same as during the latter part of 1917. We will have to plan our 1918 poultry raising and keeping to meet these conditions as best we can. Prices for poultry and eggs should not drop much below those prevailing at present, unless there is interference thru price-fixing. No one can tell how spring egg production may affect prices, how far-reaching the present attempts to lessen consumption may prove, how much the shortage of hens and the demand for hatching eggs will cut down the available supply of market eggs. But it is certain that in our Atlantic and Pacific coast markets, all markets far removed from the big grain producing sections, eggs should not sell for less than 70c per dozen at wholesale thruout the coming spring and summer if the poultryman is to have a square deal from the buying public.

Every effort should be made to stim-

ulate greater consumption of all poultry products. Poultry and eggs are the best of our nourishing food and are cheap food as food prices go in these days. Particularly are they low priced foods when war time production costs are considered.



How to Raise Chicks

128 pages, profusely illustrated. An a to z manual for everyone who keeps fowls. Written by Prince T. Woods, a man who knows how and how to teach others. Cloth bound, price 75c. American Poultry Journal Pub. Co., 542 S. Dearborn St., Chicago, Illinois.

POORMAN'S 200 EGG STRAINS

THE WORLD'S BEST LAYERS

Results

TRAP-NESTED 200 EGG STRAIN

HABANA, CUBA, November 2, 1917—Dear Sir: I beg to advise you that on the 27th ult. birds arrived in great condition and that I am very pleased with them. If I succeed in raising strong livable chicks from them, especially the Leghorns, I will send you a much larger order. Yours very truly, F. P. A.

GLEN ELDER, Kans., November 5, 1917—Dear Sir: We are very well pleased with the pullets and cockerel we purchased from you last winter, and we would like your prices for this season. Very respectfully, D. C. T.

ALLENVILLE, WIS., December 5, 1917—Dear Sir: Received the cock bird in first-class shape. He is a very fine bird in almost every way, but, as you say, he is in the molt and so does not look as nice as a bird in full plumage, but he is a strong, rugged fellow and has a nice head and shape and is not a little dumpy bird like most breeders are trying to get, or as they say, "cobby." When they breed such, they breed right against the egg type, which I can see you haven't, as he has a fine long and broad back, which is what I am going to try and breed into my flock. Yours respectfully, F. H. G.

TOFIELD, ALTA, CANADA, December 22, 1917—Dear Sir: I received my Grade A breeding yard of Buff Orpingtons in O. K. condition after a ten-day trip and arrived at 40 degrees below zero. I am very well pleased with this shipment and especially my 273-egg cockerel. He is a fine type of bird and a live one. Thanking you for your kind treatment and selection, I am, yours truly, E. M. H.

HERRIN, ILL., January 1, 1918—Dear Sir: I would be pleased to receive your 1918 catalog. I raised all of the baby chicks I bought of you last year and they surely are a fine looking flock. The pullets started to lay at six months and the cold weather don't stop them. They are on the job every day. I plan on getting some of your baby chicks this year. Respectfully, R. A. W.

SYRACUSE, N. Y., August 12, 1917—Dear Sir: It is a pleasure to report on the 50 Buff Orpington chicks received from you May 10. They are all alive and every one in fine vigorous condition, not fat, but growing nicely. I have never had as fine a flock, without a loss or a runt. In my estimation, a great ad. for the Poorman Strain. Wishing you and my 50 continued success, I am, very truly yours, J. S. E.

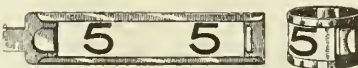
MANCHESTER, N. H., September 29, 1917—Dear Sir: Kindly send catalog and price list to me. I am anxious to secure some White Orpington pullets or perhaps White Leghorns. Have always had your breeds and I am thoroly satisfied. Yours truly, M. J. D.

With my Strains and your careful attention, the above results will be YOURS.

JOHN G. POORMAN, Box 100, Tinley Park, Ill., U. S. A.

System Spells Success

Know your birds. Be able to tell the breeding and age of every bird in your flock at a glance. Trapnest your layers and weed out the unprofitable ones and success is bound to follow.



BOURNE LEG BANDS

ARE EASY TO USE. They are made with large numbers printed on colored celluloid held in an aluminum band. Numbers easily read from a distance. Numbers from 1 to 100 have double numbers on a band, from 101 to 300 have single numbers on a band, printed on white, red, green, cerise, blue, yellow and pink celluloid. Numbers from 301 to 1,000 may be obtained on white only. Band will withstand weather and water. Sizes for all breeds, also for pigeons.

SEND FOR FREE SAMPLE, CIRCULAR AND PRICE LIST.

BOURNE MFG. COMPANY, 231 Howard St. MELROSE, MASS.

White AND Buff



SCOTT'S SHOW STOCK

ORPINGTONS Single comb. Won at Iowa State Fair. Show and utility stock for sale. Write your wants. P. L. SCOTT MASON CITY, IA.

Laying right through

1918		January						1918
SUN	MON	TUE	WED	THU	FRI	SAT		
1	2	3	4	5	6	7	8	
13	14	15	16	17	18	19	20	
27	28	29	30	31				



Anconas do!

They are great
Winter Layers
of Big white eggs

Sheppard's Famous Anconas are the greatest winter layers in the world. And if you want layers that will do business briskly all thru January as well as the other winter months you then should have

Sheppard's Famous Anconas

Page after page in my book "How to Gain Money and Prizes" proves this fact beyond a shadow of question. My birds hold

World's Record for Single Bird, 331

**World's Flock Laying Record
256 Average**

Anconas are beautiful, hardy, tame birds—with vitality and perseverance to lay steadily winter and summer. Write for free book now.

Win at the Shows

Put Anconas in your exhibition coops and you'll *take out* prizes. A number of very choice birds, show winners, ready for immediate shipment. Drop me a line at once. Or, wire your requirements.

H. CECILL SHEPPARD
BEREA, OHIO

Plan Your Garden Now.

THE spring and summer season of 1918 promises to be a busy one. We have the big drive to raise more poultry on farms and back yards. The keep a pig drive. The raise a calf drive. The raise more sheep drive. The meatless, wheatless, eatless, wearless, economy drives. The saving and loan drives. The corn and wheat drives. The big drive which must "go over the top" to win in Europe. The Red Cross and W. M. C. A. drives. The "can all you can" drives and many others. And the second year of the big have a family garden drive. Everybody will have ample opportunity for work, and everybody should and must work. There are many who would be benefited by getting acquainted with the 16-hour day.

Most poultrymen have a garden every year. All who can should have a garden. The time to plan a garden is now. Seed catalogs are now available. Did you get yours? Garden seeds of best and most desirable varieties are quite scarce. Orders should be placed early and in many cases it may be wise to make provision for second choice in case old favorites are not available. On these cold and blustery evenings there is a lot of satisfaction to be had planning the home garden for the coming season, while snug and warm by the family fire-side.

Plan a garden for the poultry as well as for the family. If you have room grow some grain for the poultry too. Corn, oats and wheat may be planted where location is favorable, tho corn is usually the most dependable. In New England we believe that Rhode Island white flint corn and Canada Cap yellow flint corn are two of the most reliable varieties. Mangels, stock carrots, cabbages, and pumpkins are all good crops to grow for poultry. Back-lotters will find Swiss chard and lettuce easily grown summer greens for both family and poultry. Where flocks are yarded, growing oats under a wire screen in the poultry yard supplies continuous growth of quickly produced green stuff. Waste from the garden is always acceptable to the poultry and even the weeds may be put to good use if delivered to the fowls.

We saved a good deal of our own seed last year, including peas, beans, squash, etc. We like the old reliable Notts' Excelsior peas and make successive plantings about two weeks apart. We use Silver Skin and Yellow Globe onion sets, and in our soil get better results with sets than with seed. Of course we have an asparagus bed, rhubarb, everbearing strawberries, blackberries and raspberries. If we did not have these we would set some out in the spring. It is a good plan to start a new strawberry patch anyway. We have had to dig up and burn all our currants and gooseberries; the authorities require it. Currants and gooseberries harbor the parasite of pine blister rust, a dangerous disease which threatens the growing white pine—so much as we like these small fruits they must go, as the white pine is much more valuable.

We always like to have a few radishes of the earliest sorts, not so much for the food value as because they are an agreeable relish and one of the quickest and earliest returns of the season. A hot bed and cold frame are very satisfactory means for securing early sup-



From Egg to Egg Basket

It's not the chicks you hatch but the chicks you raise that bring the profit

We have eliminated the "problem" in feeding. *First:* Blatchford's Milk Mash will push your little chicks forward with a sturdy, natural growth and you will avoid all loss from bowel trouble, leg weakness or white diarrhea.

Blatchford's

Milk Mash
saves the
baby chicks

Blatchford's Milk Mash

—composed of milk, milk substitutes, meat and grains, prepared for easy digestion—should be every chick's first feed. Keep it constantly before them until they are three months old, as it grows, matures or fattens

Then: by following at once with

Blatchford's "Fill the Basket" Egg Mash

the feeding system remains unbroken, and there is no "problem" to solve as to what the "next" feed shall be.

Sold by progressive feed dealers everywhere

Manufactured only by

Blatchford Calf Meal Company

POULTRY MASH DEPARTMENT

Waukegan, Illinois

Write us for name of nearest dealer

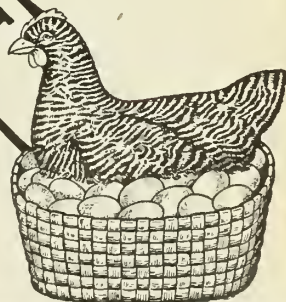
HERE I AM—START ME RIGHT—KEEP ME GOING—AND I WILL FILL YOUR BASKET



2 1/4 pounds at 8 weeks

It is the best starting, growing and developing food obtainable, carrying all kinds of young poultry safely through the danger periods of early life and assuring a profitable maturity—either for the laying-pen or market.

No fillers, by-products or waste materials being used in its manufacture, every bit is eaten up clean by the rapidly growing birds.



Profit in the Poultry Business

At the present time many are complaining bitterly that they are unable to make both ends meet. There is only one remedy for this condition. It is to

**Brown and Wh. Leghorns
Barred and White Rocks
Reds White Wyandottes
Orpingtons**

Raise Heavy Laying Birds

that will deliver a profitable number of eggs when prices are high. For 28 years I have been trapnesting and breeding for heavy egg production. Sunnyside birds are used to cold weather, as they are raised in the rigorous climate of Vermont. If you want to get started

on the right road, order some of our

Eggs and Baby Chicks

bred from trapnested, pedigreed stock—the only kind of birds that are worth raising. Book your order now so as to avoid much disappointment.

Breeders

Trapnested stock, regular \$5.00 values, birds that will give you an opportunity to make good profits selling hatching eggs, with records of

180 to 200 eggs, each	\$2.00
210 to 248 eggs, each	\$3.00
\$10 cock birds at	\$5.00 and less
Pullets, according to age and breeding	\$1.00 to \$3.00
Cockerels, according to records of dams.....	\$3.00 to \$10.00

Hatching Eggs

We guarantee safe delivery, and send you the same eggs as we use ourselves. Prices for January delivery and after:

From hens with records of 180 to 200 eggs	
100 eggs; any variety we have	\$10.00
200 eggs; any variety we have	19.00

From hens with records of 200 to 248 eggs	
100 eggs; any variety we have	12.00
200 eggs; any variety we have	23.00
Eggs from Show Birds and Record Layers combined.....	\$3.00 per 15



Baby Chicks

same high quality as our other stock, and we have kept our prices same as last season. Bred from birds with records of

180 to 200 eggs, chicks, per 100..	\$20.00
210 to 248 eggs, chicks, per 100..	25.00

**Order from this ad
or send for catalog**

SUNNYSIDE POULTRY FARM, R. C. Blodgett, Prop., Box 1002, BRISTOL, VERMONT

Madison Square WINNERS

At the last Madison Sq. Garden Show, Dec. 28 to Jan. 1, we won

- 1st, 2d, 3d Cockerel
- 1st, 2d, 3d Pullet
- 1st, 3d, 4th Pen
- 3d, 4th, 5th Cock
- 2d, 3d Hen

First Hen, Boston, 1918

First Cock, Boston, 1918

1st Display which gave us the Silver Challenge Cup offered by the American Campine Club, winning it outright, having won twice in succession at the Club Show. This cup has been up for five years.

"Homestead" THE VIGOROUS STRAIN Campines

If you are desirous of securing choice show birds, strengthening your flock, or starting with the best breed, do not delay writing us, stating just what you want. We have the goods and can please you.

At the New York State Fair

September 10-15, 1917, we won 1st and 2nd Cock; 1st and 4th Hen; 2nd, 3rd and 4th Cockerel; 1st, 2nd and 3rd Pullet; 1st and 2nd Pen; 1st Display. How's that!

This indicates that HOMESTEAD continues to DOMINATE in the world of CAMPINES

HOMESTEAD CAMPINE FARMS, Box A, WAYLAND, MASS.

AN EXTRAORDINARY CATALOG

We have issued a beautiful catalog giving the full description and history of this remarkable breed of fowl. No expense was spared in its production, and it is well worth many times the price, 15 cents.

plies and for starting lettuce, cabbage, spinach and tomato plants. Tomato plants can be very satisfactorily started in pots or boxes in the kitchen window.

For bush beans we like the Rustless Wax and the Stringless Green Pod and Dwarf Horticultural. Edmand's Early and Detroit Dark Red are excellent beets. The Danvers carrot always gives us a good crop. The mammoth White Belgian makes a fine stock carrot for poultry. Golden Bantam and Country Gentleman are our main reliance for sweet corn. Big Boston, Wayhead and Deacon lettuce can be counted upon for an all season supply, the first being best for early forcing and the last the surest in hot weather. The Offenham Market parsnip has never failed to give us a good crop. The summer Crookneck for early and the Hubbard squash for fall and winter generally make good with us and this is not good squash country as a rule. We like the Tenderloin tomato for home use because of its color and flavor, and the Dwarf Stone has done well for us. One of the finest yields we ever had was with the Ponderosa tomato, which is a very fine variety. For early table turnips we like both the White and Yellow Globe, while the Golden Neckless Rutabaga makes a fine sort for winter use. Early Rose and Green Mountain are our choice for potatoes.

There are a host of good things to be found in your seed catalog if you will only make a study of it. Melons make a splendid crop where conditions are favorable and the poultry will feast on the rinds after the family has had the best of the flesh. It is a lot more satisfactory to make your own selection of the seeds you need and can make good use of, than to buy the ready-made "collections" which contain more or less seeds not suited to your particular garden.

Plan your garden now and get your seed order in early.

Read the Advertisements.

IT WILL pay you to read the advertisements in this magazine. Read carefully. You will find many attractive offerings. You will find a surprising variety of good things offered at very reasonable prices. Reading the ads. will answer many questions which you frequently write to the editor about.

We know that many of our readers read AMERICAN POULTRY JOURNAL from "cover to cover, ads. and all," for they tell us so and their letters prove it. But there may be a few readers who do not realize what a big general mail-order market is opened to them in our advertising columns. There are advertisers who want to buy and those who want to exchange or trade, those who offer a wide variety of merchandise, as well as

POULTRY BANDS
Pigeon Bands—Nest Tags
All goods guaranteed to be just as represented.
ALUMINUM BANDS with raised figures, price postpaid, 10-15c, 25-25c, 50-35c, 100 60c.

SPIRAL CELLULOID BANDS. 10 different colors price postpaid, 12-15c 25-25c, 50-45c, 100-75c

COLORFUL CELLULOID, with Aluminum Back. Any color, two large black numbers in each band; price 12-30c, 25-50c, 50-90c, 100-\$1.65.

Please do not send postage stamps
The National Poultry Band Co.
Send for Catalog. NEWPORT, KY.

fine Standardbred poultry, eggs, and chicks for sale.

When you write advertisers, be sure to state "I saw your ad. in AMERICAN POULTRY JOURNAL." It helps you, it helps them and it will help us. You can buy anything from a fence post to an automobile from AMERICAN POULTRY JOURNAL advertisers, as well as the best of Standardbred poultry, eggs for hatching, and baby chicks, together with all necessary feeds and poultry equipment. You can sell anything on earth that is of use to civilized people thru the right sort of advertising in AMERICAN POULTRY JOURNAL. Our readers are good buyers and represent all walks in life on this continent. AMERICAN POULTRY JOURNAL is also a fine business getter in foreign lands, not only in Britain and Europe, but in the newer markets of South American, South Africa, Australia and New Zealand.

Incubators and Brooders.

Do not delay longer in your selection of incubators and brooders for this season's work. The time is short. The earlier you place your order, the less time it will take for delivery of your goods. Later in the season transportation will be much more congested than it is now.

Send today for incubator catalog. You will find that exceptionally good values are being offered in machines and equipment. Many of the manufacturers have made their catalogs unusually interesting and full of useful poultry information. Consult the advertising columns and write today for catalog, if you have not already done so. Don't wait. Do it now!

Make your selection of machines and equipment without unnecessary delay. Get your order in early, as soon as possible, so that there will be opportunity to get the incubators and brooders to you in good season. You will need incubators and brooders this season—or an incubator and brooder—in your work of helping Uncle Sam to increase poultry production. Do not put off ordering until some more convenient time or until near the time when you expect to use the machines. Freight deliveries take time, even express deliveries are not as speedy in the rush season as at other times. Get your order in promptly ahead of the rush.

The United States Department of Agriculture and the State Agricultural Colleges urge greatly increased production of poultry and eggs. The use of incubators and brooders will be absolutely necessary if this greatly increased production is to be accomplished. The

United States needs more eggs and poultry to save beef and pork. Uncle Sam asks everybody to do their bit to "raise more poultry to help win the war." He says: "More poultry means more eggs, and more eggs and poultry meat means a greater food supply. Poultry can be raised at a lower cost and brought to maturity quicker than any other kind of live stock."

Will you do your bit for Uncle Sam? Uncle Sam means "all of us," a united people with a unity of interests. We all need food, the Nation needs more food. Everybody must do his or her bit. More poultry means more food. Incubators and brooders help to get more poultry, which means more food. Get busy on that incubator and brooder order—now!

Back-lotters and war flock poultry keepers will find ready-mixed feeds both convenient and economical. The offerings are many. Feed manufacturers made the best of their opportunity to make up their stock of feeds before the sound old corn was all gone. This insures a better quality of feed. Sound old grain is best. Dependable, commercial ready-mixed feeds from reliable manufacturers will prove safer and better for feeding than new soft corn.

**E. B. Thompson's
Imperial "Ringlet"
Barred Plymouth Rocks**

are recognized throughout the world as the leaders of all Barred Rocks. Their record at Madison Square Garden, New York, 1918, is without a parallel. (See back cover page for this achievement).



You Want Eggs to Produce the Silver Cup and Blue Ribbon Winners for Next Season's Shows

No other Barred Rock eggs have ever produced the supreme high quality birds as my Imperial "Ringlets." Hundreds of old customers order eggs every year — these eggs have brought them rich rewards in Silver Cups and First Prizes, and proved the foundation for many a money-making business.

My Imperial "Ringlet" Eggs will Put You in Position to Win at Next Season's Shows

You may raise a single chick worth hundreds of dollars, hundreds of my customers have done this.

My Matings are Unequaled in All America

No such magnificent color and barring can be found on any other living birds. In my Imperial "Ringlet" eggs you get the best First Prize Sweepstakes Madison Square Garden winning blood, which you must have to win in the strongest competition. I want to help every customer get First Prize Winners—they know they get the finest eggs in America and consider it a privilege. You will share with me and have an equal chance of producing the finest First Prize Birds of the year.

MY EGGS ARE THE BEST MONEY CAN BUY—THEY PRODUCE FIRST PRIZE BIRDS

Mr. E. B. Thompson,

Clarksville, Iowa, January 15, 1917.

Dear Sir: I showed 16 birds at Hampton, Iowa, December 12th to 15th, and got 1st and 2d Cocks; 1st, 2d and 3d Cockerels; 1st, 2d, 3d, 4th and 5th Pullets; 1st, 2d, 4th and 5th Hens; 1st Young Pen; 1st Old Pen; Grand Special. That looks good for E. B. Thompson's strain. Yours truly, J. E. Weiss.

I WILL HELP YOU TO GREATER SUCCESS AND LARGER PROFITS
Richly illustrated catalogue mailed upon request.

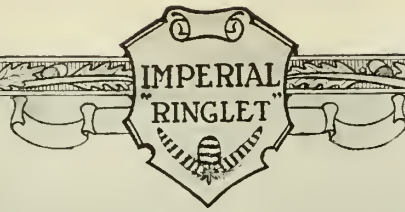
EGGS from the finest Exhibition Matings in the World; one setting, \$15; two settings, \$25; four settings, \$45; 100 Eggs, \$80.
Safe Arrival Guaranteed.

E. B. Thompson

Lock Box 510, Amenia, N. Y.



"IMPERIAL RINGLET"
 FIRST PRIZE COCKEREL AND CHAMPION MALE MADISON SQ GARDEN, N.Y. 1918
bred and owned by
 E. B. THOMPSON, AMENIA, NEW YORK.



"IMPERIAL RINGLET"
FIRST PRIZE PULLET AND CHAMPION FEMALE MADISON SQ GARDEN, N.Y. 1918.
bred and owned by
E. B. THOMPSON, AMENIA, NEW YORK.

SCOTT'S S. C. R. I. REDS World's Champions

Panama-Pacific, Best Display — Chicago Coliseum, Best Display — Greater Chicago Show, Blue Ribbon Winners. Recently at Minneapolis where the National Rhode Island Red Club meeting was held, I won 1st and 5th cock, 1st cockerel, 2d pullet, 7th, 8th and 10th hen, 2d, 7th and 8th young pen and 4th old pen. This is one of the largest Single Comb Reds that has been held this season, and my competitors were from all sections of the country.

EGGS — Special Discount — EGGS

I am going to give a special discount on egg orders booked before March 1st. My mating list, which gives a description of pens, will be sent on application.

Scott's Reds are being recognized from Coast to Coast as the Best.

C. P. SCOTT R. F. D. 36, Box A PEORIA, ILL.

DR. WOODS' NOTES AND COMMENT

Such dupes are men to custom, and so prone To reverence what is ancient, and can plead A course of long observance for its use, That even servitude, the worst of ills, Because deliver'd down from sire to son, Is kept and guarded as a sacred thing! —Cowper.

If the consumer demands more and more service, greater service, as is particularly the case in food production and distribution, how is he going to get that service unless he is willing to pay a fair and just price for it?

Increased production of food is going to be one of the most important problems of 1918. Everyone can do his bit by producing a part of the food needed for home supply in a well-managed garden and with a well-kept family flock of poultry. But this back-lot gardening and poultry keeping will only be a "drop in the bucket" in comparison with the great food supply needed to feed the hungry world. All branches of farming, live stock production and poultry growing on a large commercial scale, need to be encouraged and made profitable in order to secure the necessary increased production. Unfortunately the concentration of effort on the policy of comparatively low prices to the consumer has resulted in discouraging the producer, made some lines of production decidedly unprofitable, and resulted in much seeding down of land which should be cultivated, and in the reduction of live stock and poultry. We cannot hope for increased production of foodstuffs if we continue a policy which threatens the producers with bankruptcy. Low prices on various commodities will not help any if we are unable to secure a supply. It would be far better to pay higher war-prices cheerfully and get at least a fair supply of what is needed, even if the high cost does compel the greatest economy in the use of such supplies. Having had a brief experience with inefficiency which comes of trying to get "the cart before the horses," would it not be better to wake up now and get our team properly hitched, so that we may start our wagon in the direction of success, peace, plenty and prosperity, with some hope of getting there?



PAPE'S S. C. Black Minorcas

are a real factor in the conservation of food, producing profitable results everywhere. They are natural winter layers of large, white eggs; pullets laying at the average age of 5 1/2 months; cockerels as capons readily weigh 10 to 12 pounds and make a most delicious table fowl. Winning Championship Honors for 25 years at America's leading shows insures their exhibition quality. Am offering at popular prices,

EGGS THAT WILL HATCH CHICKS THAT WILL THRIVE

layers, breeders, males that will improve any flock. Mating list with suggestions on "Securing Winter Eggs" free. Please state requirements.

CHAS. G. PAPE B-74, Fort Wayne, Ind., U. S. A.

HOUSTONIA

Red Sussex

Light Sussex



American

Champions

Our birds delayed enroute to Madison Square Garden arrived after closing of this exhibition and regardless of the lack of care and attention for over ten days enroute, were entered for competition at Sussex Club Show, Cleveland, Ohio, Jan. 7-12, 1918, in the best classes we have seen to date and won as follows: RED SUSSEX, Cocks 1-2-3; Hens 1-2-3; Cockerels 1; Pullets 1-2-3; Old Pen 1; Young Pen 1. LIGHT SUSSEX, Cocks 1-2; Hens 1-2; Cockerels 1; Pullets 1-2; Old Pen 1; Young Pen, 1. Gold Watch for Best Display. EGGS FOR HATCHING from the finest of exhibition matings, \$10 per 15. From officially recorded high egg producers, \$3 per 15. Only a very limited number of birds for sale.

Houstonia Poultry Farm Dept. A South Charleston, Ohio



Every Breeder Trapnested

S. C. White Leghorns Barred Rocks
(Barrens Direct) (Bucks, Parks, Francis)

Day-Old Chix Eggs for Hatching

All males bred from 250 egg hens. 25 high record cockerels reasonable. Catalog free, stamps appreciated.

BAYVILLE FARMS Box A BAYVILLE, NEW JERSEY
Breeders of Superior "UTILITY POULTRY"

GREEN'S GREAT GROUP OF PRIZE-WINNING

White, Buff Leghorns	Barred Rocks
Single Comb Reds	White Wyandottes

Show or utility stock that will enhance the value of your flock and give it a reputation that will mean dollars in your pocket. They win—they lay—they pay. No stock for sale. Eggs, \$2.00 per setting; 3 settings for \$5.00. Book your orders now. FLOYD GREEN, 1026 June St., FREMONT, OHIO

GOLD COIN BUTTERCUPS

Chicago Coliseum Winners, 1917: 1st pullet, 3d, 4th and 5th cockerel. I have some fine cockerels for sale. Write your needs. Hatching Eggs. Baby Chicks. I will have eggs and chicks from pens containing these prize winners. Do not delay ordering. O. B. DISENROTH, LAWRENCE, MICH.

R. C. — QUALITY RHODE ISLAND REDS — S. C.
At the Great Cleveland Show, 1918, I won 2 firsts, 3 seconds, 4 thirds, 2 fourths and 2 fifths; 30 birds shown, 29 under the ribbons 150 exhibition and choice breeding cockerels at reduced prices for quick sales. Eggs for hatching. Send for mating list.
B. M. BILLINGS BOX A ELYRIA, OHIO



Light Brahmas

At Cleveland we won
1st and 2d Cock 1st Hen
1st Cockerel 1st Pullet

Exhibition and Breeding Stock from blue ribbon winners at reduced prices. Write GEO. C. WRIGHT & SON 2335 Riverside Road Lakewood, Ohio

Have you one of Our New Cut Catalogs?

A WONDERFUL VICTORY

AT THE
COLISEUM, CHICAGO, DECEMBER 4-9, 1917



THIS PHOTO
ABSOLUTELY UNRETOUCHED

Male in First Old Pen, Chicago Coliseum, December, 1917

Cocks	Hens	Cockerels	Pullets	Old Pens	Yg. Pens
1	2	1	2	1	2
2	4	4	3	3	4
4	7	5		4	5
5					
6					

I had 58 Leghorns entered; 45 were placed. If you wish exhibition stock or hatching eggs from the very best matings, write me today. I have the stock in quality and in quantity. I guarantee to satisfy my customers. I quote rock-bottom prices. Where else can you buy S. C. White Leghorns of an established strain that win year after year, both in the show-room and in egg-laying contests? Write me your wants today; I will guarantee to fill them.

Experts on My Great Victory

"I have photographed the best specimens of S. C. White Leghorns exhibited at the Coliseum Show for more than ten years, and I feel that I am entirely competent to speak of the quality of the Leghorns that have been exhibited there during that period. This year the class was stronger than at any time in the past. The specimens exhibited by Frank E. Hering—about 60 in number—were easily the best that have ever been exhibited at the Coliseum. His entries were uniformly strong. He has developed a type with splendid station and fine Leghorn lines that delight the eye of the true Leghorn breeder and fancier. Among Leghorn breeders, Mr. Hering must be assigned one of the foremost places."—Louis Stahmer, Artist of the American Poultry Journal.

"I have been a judge in one or another of the Leghorn varieties at the Coliseum, Chicago, for the last seven years. I consider the S. C. White Leghorn class of 1917 the very strongest that has ever been exhibited at the Coliseum. Frank E. Hering has won the Sweepstakes Championship for the third successive year. This year he had seven entries in each of the single classes and six pens. It is the simple truth to say that his Leghorns are considerably stronger in every class this year than ever before, and that is a mighty strong assertion. Mr. Hering has earned the right to be considered in the select class of the very foremost breeders of S. C. White Leghorns in the country."—Herman Rikhoff, A. P. A. Judge.

BUY MY LEGHORNS AND WIN IN THE SHOW-ROOM

1,000 head of young stock are now on my 15-acre poultry plant awaiting the pleasure of my customers. Every one of these Leghorns is from a pen headed by a Blue Ribbon Coliseum winner. The foremost judges in the country pronounce my 1918 matings the equal of any they have ever seen. My guarantee to satisfy you is given with every sale. Drop me a line today.

1918 - Hatching Eggs - 1918

Eggs from the finest exhibition S. C. White Leghorn matings:

- Per sitting of 15 eggs . . . \$10.00
- Three sittings for . . . 25.00
- One hundred eggs for . . . 50.00

In case eggs from special pens are designated, add 25% additional.

Eggs from other pens, headed by Coliseum Winners—but not Blue Ribbon Males:

- Per sitting of 15 eggs . . . \$ 5.00
- Three sittings for . . . 12.50
- One hundred eggs for . . . 25.00

My Guarantee

I will guarantee eleven fertile eggs out of every fifteen. Shipments are all carefully packed so as to provide against breakage as well as against extremes of weather. I ship to remote points of the country with excellent results.

WRITE FOR FREE MATING LIST TODAY

FRANK E. HERING

Desk B

South Bend, Indiana



A 1917 Chicago Coliseum Blue Ribbon Winner



First Cockerel, Madison Square Garden, 1918

EGGS



STOCK



First Pullet, Madison Square Garden, 1918

growth and will help out the summer and fall meat supply. February and March hatched pullets are dependable egg producers. Produce your share.

* * *

Frank L. Platt, newly fledged U. S. expert and extension poultry husbandman, tells the people of Illinois: "We want to increase the number of back-lot poultry keepers. *Two laying hens for every member of the family will mean a home supply of the city and town man.*"

Those hens which friend Platt has in his mind must be uncommonly productive; sort of theoretical hens laying theoretical eggs, as it were, but we are afraid that such visionary eggs would not be very filling as a home supply. We have four in our family, two adults and two children. We use an average of five eggs for breakfast every morning, total egg consumption in our family averages from eight to ten eggs daily the year 'round. We also average to consume three chickens a week thruout the year. How long would "two laying hens for every member of the family mean a home supply" for us? That would be a flock of only eight hens, which, even tho better than the average, could scarcely be expected to average above 3 eggs per day thru the year.

* * *

We believe that every family of two people, favorably situated, should keep a back-lot flock of not less than ten hens; fifteen would be better. Families where there are two growing children will need a home flock of from 25 to 30 fowls. Fifty birds, where plenty of room for them is available, make a good comfortable family flock that can be economically kept as a source of family food supply. Eggs and poultry make good food for everybody, particularly desirable for the growing youngsters. Increased consumption of poultry meat and eggs should be encouraged. There is very grave danger of a world-wide food shortage. Every family, having land available for the purpose, should produce a part of its required food by keeping a family flock of poultry and having a home garden. Now is the time to plan for both.

* * *

You, friend Reader, can help by securing a few recruits to family flock poultry keeping. But be careful how you go about it. Get the beginner started right. Do not encourage him to go into the work in expectation of big results or of making "profits." If you start him with that line of "great expectations" he is almost certain to be disappointed, may sour on poultry and put in a good deal of time talking against poultry keeping, with the result that he keeps a good many other people from attempting poultry keeping. We have never paid sufficient attention to getting beginners started right. They have been loaded up with matched—not mated—stock that would not breed true. They have been lectured

WINNERS

Below you will find a list of our winnings at the last Madison Square Garden Show. Our birds have taken the cream of the prizes for years at all leading shows.

LAYERS

In the American Laying Contest, 51 pens being entered, our pen of pullets is second. We have bred for years for heavy egg type.

Madison Square Winnings

1st and 3rd Cockerel
1st and 4th Pullet
Second Pen

2nd and 5th Cock
1st and 4th Hen
Best Display

Hatching Eggs

Many a setting of our eggs has won a valuable reputation for our customers. When you buy hatching eggs, it is false economy to purchase anything but the best. Our methods of honest dealing meet with the approval of our customers.

SEND FOR CATALOG

Morris Poultry Farm H. RAWNSLEY Mgr. **Lebanon, Ohio**

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THE PENN HATCHERY

POPULAR BREEDS — POPULAR PRICES

WE are experienced, successful producers of baby chicks and are now equipping a modern hatching establishment "in the heart of Philadelphia," near both railroad terminals, the subway and surface cars. *This is a public convenience.*

Baby chick buyers in Philadelphia and surrounding territory can conveniently visit us, inspect the chicks before purchasing and take them direct from the incubators to the brooders without delay, loss or additional expense. Mail orders can be filled by express by direct shipments in the shortest time.

Our hatchery and store will soon be open for public inspection and visitors are cordially invited. Due notice of opening will soon be made public.

Write us at once. We will place your order on our mailing list and send catalog and opening announcement shortly.

THE PENN HATCHERY Box 74 **Philadelphia, Pa.**

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BUTTERCUPS

101 BIRDS PLACED — 117 EXHIBITED

Is our record during the past season at Madison Square Garden, N. Y., State Fair, Oxford, N. Y. (Club Show), and other places. Largest breeders of Buttercups in New York and New England. 20 pens mated for breeding. 1918 Catalogue Free. Inquiries promptly answered.

HIDDENHURST BUTTERCUP YARDS, Box A2, SHARON STATION, NEW YORK

BUFF ROCKS

Won Every First Prize Offered at Kansas City Show. Pronounced by Judge Drenstedt best class he ever saw. Cocks, 1, 2, 3, 4, 5; Hens, 1, 4; Cockerels, 1, 2, 3, 4, 5, 6; Pullets, 1, 2, 4; Old Pen, 1; Young Pen, 1; Best Display in entire show. First Prize winners at City, World's Fair. Two pullets at Mountain Grove laid 229 and 201 eggs each. Get my catalog.

Madison Square Garden, N. Y. Palace, Chicago, Kansas Grove laid 229 and 201 eggs each. Get my catalog.

C. R. BAKER Box A ABILENE, KANSAS

VON CULIN INCUBATOR

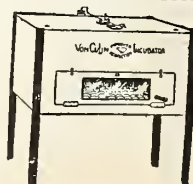
\$10.00

No Advance in Price

ABSOLUTELY FIREPROOF WRITE FOR CATALOGUE

Geo. Watson Beach, Mfr. Dept. 15

126 Liberty St. New York





STARKS WHITE ROCKS

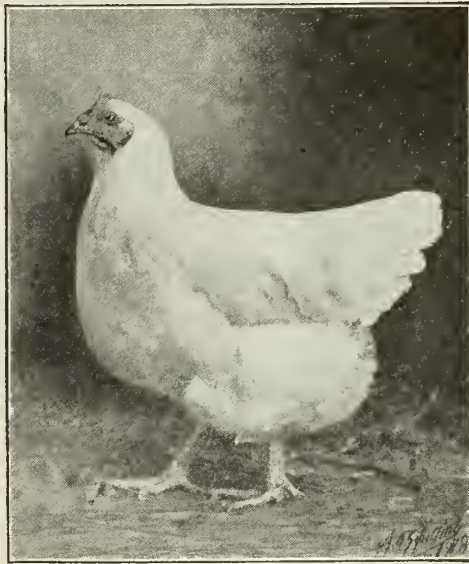
Unquestionably the best beauty-business strain of the greatest all-purpose fowls ever produced. A broad claim, but fully substantiated by the facts. Starks White Rocks are uniformly excellent in exhibition qualities; equally good at the nest and on the block. We have kept show and utility qualities in balance, never sacrificing one for the other. Hence these beautiful Rocks are truly

WINNERS and WORKERS



STARKS "GARDEN KING"
1st Cock, Madison Square Garden, 1917-18

This season we exhibited at two big Eastern shows: Hagerstown Fair, the leading fall show, and Madison Square Garden, the premier fanciers' show of America. At Hagerstown we won, on five entries, First, Second, Third, Fourth and Fifth hens; a clean sweep of the class. At the Garden our birds captured these prizes: Cock—First, Third, Fifth. Cockerel—Second, Fourth. Hen—Second, Third, Fifth. Pullet—Third. Pen—Third. **This is the greatest White Rock winning ever made at the Garden by a Western exhibitor.** The above, in addition to leading prizes formerly won at Chicago, Cleveland, Syracuse, Indianapolis and other well known shows, prove that Starks White Rocks are winners.



STARKS "WISCONSIN BELLE"
Certified Record 240 Eggs in Pullet Year

The hen shown above is a typical specimen of a remarkable family of heavy layers owned by Starks Farm. The other hens in the same pen made pullet-year egg records as follows: 247, 247, 246, 244, 244, 241, 240 and 239 eggs. The male that heads this pen is the son of a 240-egg hen and was sired by the son of a 226-egg hen. This notable group of show-quality, heavy-laying White Rocks probably cannot be duplicated elsewhere. While we have pens mated especially to produce show specimens of highest quality, we wish to particularly emphasize the fact that our birds are all above the average as egg producers.

Starks White Rocks are remarkably uniform in color, size and conformation. They have the true Rock shape, pure white plumage, rich yellow legs and beaks and red eyes. Further, they possess abounding vigor and vitality because they are bred in "the north country," a region of bracing summers and dry, cold winters. Altho distinctly superior in all the desirable qualities demanded alike by fanciers and utility poultrymen, Starks White Rocks are priced moderately. We still have a number of desirable breeders for sale. Write your wants and we will promptly send quotations. Hatching eggs will be supplied in season. We suggest early booking of egg orders.

Write now for complete catalog. It's free.

STARKS FARM Box 100 **STARKS, WIS.**

SPECKLED SUSSEX

at the Club Show, Cleveland, Ohio, were the highest quality ever seen in the world.

Our **Moraine's Delight**, 1st Cockerel at the Club Show, New York, 1917, was again awarded the **Blue** for 1st Cock at Cleveland, 1918. We also won 1st Cockerel two years in succession at the Club Meet. Our winnings are:

1st and 4th Cock **1st, 3d and 5th Young Pen**
1st and 3d Cockerel **5th Hen and 4th Pullet**

Our matings will contain *all* our winners. Write today for our new 1918 Mating List of Hatching Eggs and Baby Chicks.

MORAINE FARM Poultry Dept., R. R. 16 DAYTON, OHIO

Quality White Plymouth Rocks

Strong and vigorous chicks that will do their bit. Do your bit by sending us your order and help win the war. 25 for \$5, 50 for \$10, 100 for \$19. Chicks and eggs from exhibition pens, also several fine cockerels for sale. Orders booked for future delivery for 25 percent of order. Give us your order now and you will not be disappointed by not being able to get them later, as the supply will be short this season.

Address, **A. G. SPAHR** **Box 1240** **XENIA, OHIO**

What's a **CAPON** and Why?

A BOOK that explains everything you will ever want to know about CAPONS. 50 pictures from life show each step in the operation. List of Capon dealers' addresses. Tells how to prevent "sings" where to get the best and cheapest caponizing tools. Capons are immense eaters. Big profits realized. Get wise. This book tells how. Regular 50-cent copy, prepaid to your address (a short time only), for a dime in coin or stamps. **GEORGE BEUOY, R. R. No. 7, CEDAR VALE, KANSAS**

so much about "new blood" and about "breeding unrelated stock" that they have been constantly mating unrelated stock with most discouraging results—when every experienced breeder knows that it is only by skillful inbreeding of well mated birds that quality specimens can be produced. The beginner gets "hen fever" and goes into the new undertaking full of hope and enthusiasm. We cannot afford to neglect our opportunity to help him toward success. It is mighty poor policy to load him up with everything he will buy, whether he needs it or not, and then look around for "a new sucker." A successful beginner means a substantial addition to poultrydom and a steady customer for those who give him a square deal. He will bring in more recruits to develop the poultry industry. A discouraged and disappointed beginner may result in far-reaching injury to the business even tho his failure was apparently a very small matter. Help the beginner. Get him started right. Help him to become successful and to be an asset in a great co-operative federation of poultry keepers.

* * *

The periodical agitation against open-front or open-air poultry houses has bobbed up once more. Frightful tales are being told of the sufferings of fowls in cold houses and of birds "dropping dead from the roosts." Some of these opponents of the open-front poultry houses have very vivid imaginations, but evidently have had very little poultry experience. Representatives of the S. P. C. A. have investigated open-front poultry houses and found that even in

(Continued on Page 241)

Shoemaker Poultry Farm

Freeport Illinois

Established Over 28 Years

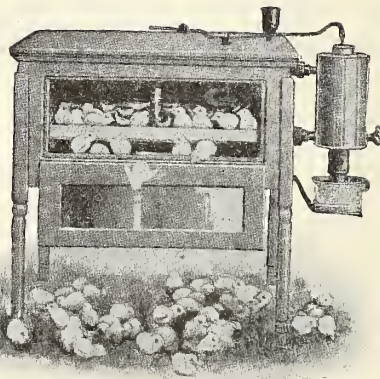
Don't endanger your success

by using a poor incubator. Your incubator will be the keystone of your season's efforts. If it fails you or does not give the maximum of efficiency you lose at least several weeks' time, or maybe the whole season. Incubators will be hard to get on short notice this spring, due to manufacturing and shipping difficulties, so prepare now.

Globe Incubators and Brooders

are not just "good enough." They are the best machines on the market today and we are willing to prove it. They are not mail order house machines, but are built to last and give satisfaction for a generation. No machine leaves the factory until it passes the most rigid examinations, for our good name is back of every one of them. Our motto is: "How good we can build them—not how cheap." The remarkable hatches which our customers obtain is positive proof that you can afford to buy but one incubator and that is the **GLOBE**.

Genuine success cannot be achieved in incubator work unless the work is completed by using a really good brooder. Compared with an incubator, a brooder is rather a simple apparatus, but nevertheless the work it has to do demands that it be thoroughly well made. Globe brooders are made with the same painstaking care as Globe incubators.



HATCHING EGGS

Book orders now for hatching eggs for spring delivery

We Breed 48 Varieties of Poultry

and can supply your wants. Our old customers come back year after year, which proves we give satisfaction. We believe in always giving them a bit more than they pay for. Don't delay your order for eggs. Remember, many unforeseen difficulties are constantly arising, and delay may mean serious loss.

Send for our Poultry Almanac today—all about Fowls and Incubators—Price 15c.

C. C. SHOEMAKER Breeder of Birds of Better Quality **BOX 605, FREEPORT, ILL.**

Poultry Almanac For 1918

It is a textbook of information. Tells about and shows pictures of the different varieties, incubators, brooders, poultry ills and how to cure them, what and how to feed, how to build poultry houses, etc. Write for it today, inclosing 15 cts.

WHAT CAN BE DONE FOR OUR SMALL POULTRY SHOWS?

By A. J. KYLE, Short Falls, N. H.

I AM WRITING this because I am interested in poultry and the future of the poultry business. It means a great deal to me, and if all the time and work I have put into the breeding of Barred Plymouth Rocks has been wasted I want to find it out now, before I go any deeper into it.

When a small boy, I had chicken-pox, and it must have struck in, for I have had hen fever ever since. I breed Barred Rocks because I like them best and think they are the one best breed. If I liked some other breed better I should breed it and call them the best. Our egg-laying contests have proved beyond a doubt that it's the strain, and not the breed, that makes for success or failure.

Now, after all these years of work and after success beyond my expectations, I read, and am told by men who ought to and do know more than I about the poultry business, that what I want



CASWELL SWELL
Registered Airedale dog, property of P. H. Sprague, Ave. I, Maywood, Ill.

to do, also what I have done, cannot, and never will, be done. I am always open to conviction, but I am hard to convince, I guess, for in spite of all I read and hear, I am going to continue as I have in the past, and when the time comes, if it ever does, that I have to give up and acknowledge that I was wrong, I will do so with as good grace as I can, but before that time comes I am going to try to get a few more breeders to go under with me.

Page after page is printed in our poultry magazines about double mating. More space is taken up by breeders arguing for and against splitting up the Barred Rocks into two separate breeds, light and dark, but never a word is said against the most pernicious system of double mating that has ever existed—the bred-to-lay and the exhibition mating. Is there any good reason why the fancier should not breed for eggs as well as feathers? None at all. Is there any reason in the world why the so-called utility breeder should not breed for standard points as well as high egg production? I think not.

When the breeders of this country make their strains both layers and lookers, the poultry business will have taken the biggest stride in its whole history.

There has recently come into my possession a copy of Geo. P. Burnham's book, "The History of the Hen Fever," published in 1855. It is a remarkable book in its way, and teaches a lesson that we well may profit by at the present time. It covers a period in the poultry business that few of us know any-

DR HESS POULTRY PAN-A-CE-A



Get winter eggs. Make your hens lay better. Dr. Hess Poultry Pan-a-ce-a has a direct action on the egg organs. It tones them up, makes more of the feed go toward egg-making. Feed it regularly to condition pullets and hens, to make them feel well and to give them a real laying disposition. Do this and keep your hens right on at steady laying all through the winter. Dr. Hess Poultry Pan-a-ce-a will do this for you under straight-out guarantee. If you find it does not, the dealer is authorized to refund your money. Packages 25c, 60c and \$1.25. 25-lb. pail, \$2.50; 100-lb. drum, \$9.00. Except in the far West and Canada.

Dr. HESS & CLARK
Ashland Ohio

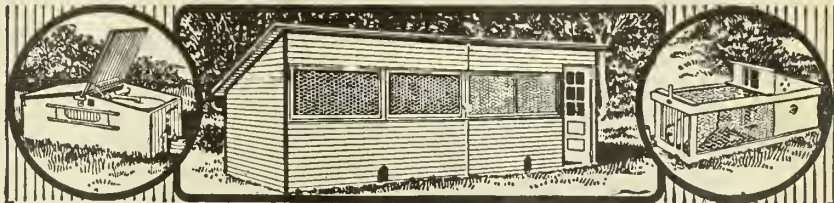
GREEN FEED Makes Hens Lay

Feed Sprouted Oats Easily—quickly—cleanly—economically produced in "Successful" Sectional Metal Grain Sprouter. Get greater fertility in winter laid eggs—earlier chicks. Make three bushels of tempting egg-making feed from one bushel of oats, wheat or rye—increase the egg yield at least 50 per cent—and at same time save one-third feeding cost. Write for catalog and 1918 offer we make on the

"SUCCESSFUL" SECTIONAL ALL-STEEL GRAIN SPROUTER

Made with double steel walls—metal trays—nothing in it to warp, shrink, swell or mold the food. Fireproof. Lasts a lifetime. Large glass doors. Made in sections so you can add more sections as your needs grow. There's a size for your needs whether you keep 50 or 600 hens. Thousands of poultry raisers say they would not be without this wonderful food maker. The newest, most reliable construction ever made in a grain sprouter. Not only turns idle hens into industrious layers but supplies feed for growing chicks—protects health—prevents chick loss. Booklet—"How to Raise 48 Out of 50 Chicks" 10 cents.

Write today for catalog and full details of 1918 offer
DES MOINES INCUBATOR CO., 561 Third St., Des Moines, Iowa



Brooder for 50 to 100 chicks

No. 3 Poultry House for 60 hens—2 units

Setting Coop

NOW that the government has urged the keeping of poultry, the thing to do is get started right and quick. So send for a Hodgson catalog. Then pick out the houses, coops and brooders you need and order. They will come to you in neatly painted, fitted sections

which can be put together in a jiffy by anyone. Hodgson Poultry Houses are arranged scientifically and made vermin-proof.

E. F. HODGSON CO., Room 332, 116 Washington St., Boston, Mass.—6 E. 39th St., New York City

HODGSON PORTABLE HOUSES

GOLDEN WYANDOTTES

Pedigree 200-egg strain. 18 years. Winners at Chicago, World's Fair and New York and Missouri Egg-Laying Contest. Cockerels, eggs and baby chicks for sale.

J. S. PENNINGTON

BOX A

PLAINFIELD, ILL.



A pair of bred-to-lay S. C. R. I. Reds on the farm of John G. Poorman, Box 100, Tinley Park, Ill.

thing about, from 1849 to 1855. Mr. Burnham attributes the failure of the poultry business at that time to the fact that chickens *did not pay*, and ate their heads off. From that time on breeding was carried on by a few fanciers who loved the birds. Grain was cheap, and they could afford to keep them just to show the one object was to breed a bird that would beat the other fellow at the show or to sell them to some other breeder for this purpose. During this period, and long before, there was the farmer who "kept hens." It is hard to tell just why he kept them, for they were classed as a nuisance and seldom paid their keep. As a rule they were a cross of every known breed, and some unknown ones for good measure.

Then, thanks to the fanciers who originated the new breeds and standardized them, came the poultry magazines, poultry associations, and, thanks to them, the departments of poultry husbandry at our state colleges. The farmers did not ask for them, I am sure. Next came the egg-laying contests, and with them the bred-to-lay breeder, and for the first time systematic breeding for increased egg production to any extent, tho a few breeders had started some time before this to trapnest and breed for eggs. Unfortunately, it was not the fanciers who did this, and the public as well as many of our experimental stations jumped at the conclusion that show birds could not be bred to lay and bred-to-lay birds could not

be bred to show. In 1914 came the war and the price of grain began to soar, the small fancier in our towns and villages sold his birds or ate them, for he could not afford to keep birds that did not pay their way. The true fancier who loved the birds for their beauty will never keep the bred-to-lay stock that the average breeder sells. The result is, his house is empty, and many of the smaller shows have had to be discontinued, and all of them have had coops to spare that had the courage to run shows this season; but you ask how about the thousands that have started a small flock of bred-to-lay birds to help out the high cost of living?

They are very enthusiastic at first, but the profit on ten or twenty hens



MAPLESIDE Bred-to-Lay Barred Plymouth Rocks

Regardless of what some may say who perhaps have never produced a phenomenal layer worth while, Mapleside produced the phenomenal layer Liberty Lass, record 268 eggs in one year. She was also a phenomenal breeder—90 percent of her eggs hatched. She also possessed phenomenal precocity, manifested generation after generation; twenty of her daughters laid 4,064 eggs in one year (one went 250); ten first granddaughters laid 2,123 eggs in one year (one went 249). Her son sired the six pullets that averaged 242 eggs each in one year (one went 261). One of her great-granddaughters so far laid 266 eggs in 10 months and 29 days, with no signs of quitting. Her blood and breeding permeates my entire flock. My catalog tells the rest; it's free.

STOCK, EGGS and Day-old CHIX with phenomenal laying trait at right prices.
O. F. MITTENDORFF Box F LINCOLN, ILLINOIS

ROSE COMB TOMPKINS' RHODE ISLAND REDS SINGLE COMB

Make a record win at Madison Square Garden, 1918. 6 first prizes out of a possible 10, including all firsts on cockerels, pullets and pens in both Single and Rose Combs. Best display of Reds in both combs and President's trophy for best display of Reds. Large stock of fine breeding and show birds to fit any pen or show room, and prices always reasonable. Write your wants fully to

HAROLD TOMPKINS - Box A - CONCORD, MASSACHUSETTS

is not enough to hold them long; they soon tire of the care and confinement and sell out. If they had the added incentive of being able to show their birds and win at the local show, they would stay and become true fanciers, for when we can combine both pleasure and profit, too, they will not tire of them.

Our colleges and farm papers are advising that we keep only pure-bred flocks. That is good as far as it goes, but what we want is standard-bred flocks.

Some of the shows are introducing the utility class. This may get them a few more birds, but otherwise does more harm than good. If there is any way that a judge can tell the number of eggs that a pullet will lay or that a hen has laid, it should be in the Standard of Perfection, and with 365 eggs as perfection, the birds should be cut and scored for this as well as for plumage, shape, etc.

After many years of trapnesting I can state that almost without exception our biggest layers have been standard weight and shape. I was told a short time ago that the poultry shows would have to go. If they do, it is our fault. The same party said the fancier had had his day. If he has, it is his fault.

I believe in trapnesting as the only sure way of breeding for increased egg production for the large breeder. For the small breeder it is, of course, cheaper, and, as a rule, better, to buy males, hatching eggs or chicks. There are too many exceptions to the many methods of picking the best layer. We have trapnested all our birds for years because we think it pays. It enabled us to breed Pen No. 6 at the last egg-laying contest at Storrs. This pen won the contest with an average of over 211 eggs. The sire of this pen was a sweep-stake winner as best parti-colored bird in the show at one of the largest shows in the state. Own sisters to the Storrs pen were in our winning pen at the state club meet last year. At a recent contest a White Rock laid 304 eggs, and scored well over 90, and yet we are told it cannot be done.

I have heard many men say, "I don't care what my hens look like as long as they lay," and in two minutes he will be trying to show you some hen that he thinks has extra good color. In spite of what he says, he likes the show bird, and if the show birds would lay as well as the others he would have them, for every breeder is a fancier at heart.

Get a good strain of the breed you want and breed them for eggs, and feathers, too. Don't lose sight of one in trying to get the other, for they are both important in their way.

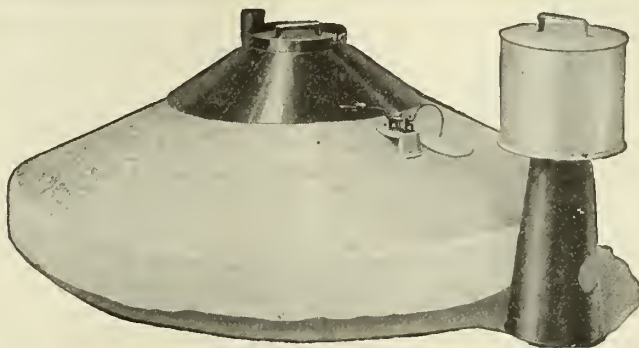
When you buy a bird ask for the egg record back of it, but ask for more than that, ask for shape and color. When there is a demand for layers and look-

ers combined, they will be bred, and when they are we will do away with the so-called utility class and double the size of our shows, as well as the attendance.

With exhibition birds bred to lay we will have the biggest and healthiest poultry boom we have ever had, and one

that will grow and grow, for if they lay everyone can afford them, and if they win everyone will want them.

Fine feathers make fine birds, and with eggs to pay the grain bill there will be no excuse for not keeping a few birds and doing your bit to help win the war.



Harrysbourg Colony Hover

Only Successful Blue Flame Oil Burning Hover on the Market

Burner absolutely wickless, burns like natural gas thruout the season without any attention in the way of cleaning. No ashes—no smoke—no soot.

Holds perfect temperature in mild and in cold weather; produces more heat from oil consumed than any other oil burner, burning 40 to 65 hours on six quarts of oil.

This burner, in connection with our ventilating system, produces wonderful results. Its use means strong, healthy chicks. The following letter from a large farm in Missouri explains the performance of this hover in few words:

Brandsville, Mo., October 29, 1917.

Gentlemen—Regarding your Blue Flame Hover, we are very much pleased with the results. It fills the need of a stove which will stay with the chicks all the way thru. A coal stove is with them upon retiring at night, but falls down before morning, while a stove of your type is right on the job every minute.

Haight Orchard and Developing Co.,
P. D. Farrington, Poultry Dept. Mgr.

Harrison, Ohio, October 2, 1917.

Gentlemen—In reply to yours of September 28th, will say that your new hover is a good one. The burner is indeed a perfect burner for this purpose, and it is a great heater.

Fraternally yours,
W. W. Brackenridge.

Redonda Beach, Cal., December 26, 1917.

Dear Sirs—The three burners you sent me for my coal brooders arrived and were at once put into action. I admit I was a trifle skeptical owing to the poor work of some of the local outfits, but I am perfectly satisfied. You have the right burner for the purpose. They certainly work fine. I shall be glad to show them to any prospective buyers who may care to investigate. Thank you for the prompt shipment. Very truly yours,

E. G. Panter.

Hover is made in two sizes: 40-inch canopy for brooding 100 to 300 chicks; large 50-inch canopy for brooding 100 to 600 chicks. Thirty-day guarantee. Send for catalog.

Change Your Coal Brooder Into a Perfect Blue Flame Oil Burner

Seventy-five percent of orders last year were from poultrymen dissatisfied with the coal brooder stove. Use our Blue Flame Burner with all connections ready to be installed in any coal brooder. Plenty of heat for a 52-inch canopy. Guaranteed to give perfect satisfaction or money refunded. Cut in this ad shows device connected to a coal brooder stove. Send for catalog.

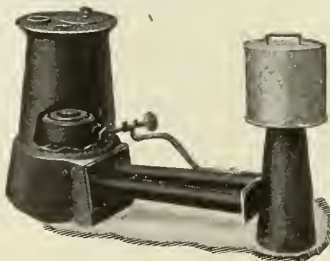
Dealers and Agents Wanted

We want live Representatives. Be the first in your territory. Our line is a Winner.

HARRYSBOURG POULTRY FARM

Incorporated

Dept. A - - - - Dunkirk, N. Y.



TYPEWRITERS

\$10 and up. All makes. Save \$25 to \$50

on rebuilt at the factory by the well-known "Young Process." Sold for low cash—installment or rented. Rental applies on purchase price. Write for full details and guarantee. Free trial.

YOUNG TYPEWRITER CO.
Dept. 532, Chicago



Mention the American Poultry Journal when writing to advertisers.



UNCLE SAM SAYS "RAISE MORE POULTRY PRODUCE MORE EGGS"

"Keep more backyard flocks
and larger general farm flocks"

"The quickest and cheapest way of adding to our meat supply is to increase poultry and egg production. We cannot increase any of the meat animals as rapidly or economically as poultry. The United States Department of Agriculture wishes every farmer to understand the importance of doubling our poultry production this year."

The American School of Poultry Husbandry offers you

a complete poultry education for the price of a small incubator or two sittings of eggs. Now is the time to make your back lot profitable, to increase the cash income from your farm or reap a harvest in the poultry business. *Start today but start right!*

It is our earnest desire to enable every man or woman who is interested in poultry keeping to secure a real, useful, practical poultry education. We wish to see more and better poultry raised—to see more people make money with chickens—we desire to eliminate the loss and disappointments that so many poultrymen experience—we want to help you solve your poultry problems—and we can do it.



Nowhere Else in the World Can You Secure So Much Poultry Knowledge At Such Slight Cost

WHY SUFFER LOSS AND FAILURE It is no longer necessary to blunder along and learn practical poultry husbandry in the expensive school of experience. We have made it possible for you to obtain, right in your own home, during spare time, complete, thorough and practical knowledge of poultry husbandry, such as you could get nowhere else except at an Agricultural College. The cost is slight and absolute satisfaction guaranteed.

In a course of lessons taught by mail, we completely cover the science of poultry husbandry and make it so plain and simple that any one can understand and apply it. This course contains the knowledge gained through over 30 years of actual experience by Professor Quisenberry and other poultry experts, and from the results of official investigations and experiments which have cost the United States Government and State Experiment Stations practically \$1,000,000. This great course is now being used by thousands of successful poultrymen in every State in the Union and in fourteen foreign countries.

Graduate Makes Money On City Lot

Would \$50 to \$500 or more profit from a side line, conducted in your spare time, be an object to you? You can easily make that amount from hens without interfering with your regular work, provided you possess the necessary knowledge of the business.

Read the experience of Mr. Clunie. Note the illustration of his neat and attractive backyard plant, built according to our instructions. Among our students are hundreds of backyard poultry raisers who are cutting down the high cost of living by producing much of the meat and all of the eggs required for their family and a surplus for sale at good prices to their less progressive neighbors.



Russell Clunie of Wisconsin writes: "I am more than satisfied with the course and with the instruction and help given me. I am at present getting more eggs and better eggs than any one around here. Also have reduced my feed bill 10 to 15% as a result of the knowledge obtained from your lessons. I now have 100 pullets, some six months old, that have been laying for a month. Some of my White Wyandottes started to lay at 4½ months. I also have 30 hens averaging a 50% egg yield or over in October. I certainly have enjoyed taking my course and am sorry that it is now finished."

"Dollars And Sense In The Poultry Business"

is the title of our Free Book which fully explains how we can help you make more money raising chickens. It discusses the poultry industry in detail, contains many interesting pictures and tells just what our lessons will teach you and what we can do for you. Our new bulletin entitled "How To Solve The Poultry Feeding Problem," contains many practical, money-saving hints. These publications are free, but we will appreciate 10c to cover mailing cost. Write for them today.



We Teach the Quisenberry Way

AMERICAN SCHOOL OF POULTRY HUSBANDRY

Box 206

Leavenworth, Kansas

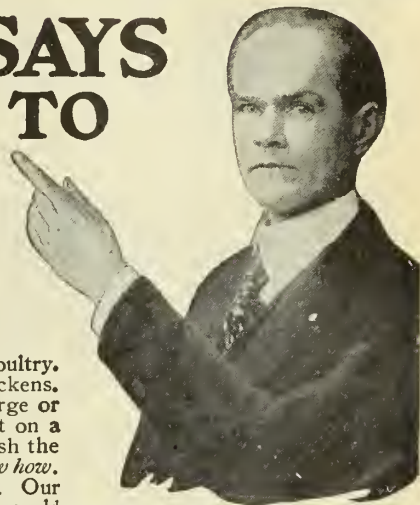




T. E. QUISENBERRY SAYS "I CAN SHOW YOU HOW TO

GET
MORE EGGS
AND RAISE

MORE CHICKS"



Thousands of people are making a good portion of their livelihood from poultry. Thousands of other people reduce their living expenses 25 per cent. or more from chickens. There are many sound reasons for the popularity of poultry raising on either a large or small scale. First, there is good money in chickens. Second, they may be kept on a limited space of ground. Third, they reduce the cost of living. Fourth, they furnish the most profitable side line a person can pursue. But if you are to succeed you must know how.

The first few dollars which you spend should be spent in learning the business. Our Practical Course in Poultry Husbandry will teach you more in thirty days than you would learn in two years by experimenting for yourself. We show you how to easily and cheaply construct the necessary coops or houses; how to feed and to save on your feed bill; how to select your best laying hens and get rid of the drones; how to manage your poultry so as to make the most out of it on a limited area; how to avoid disease and cure most diseases; how to make money from broilers; how to get fertile eggs and avoid death in shell; how to caponize; how to make two pounds of gain on young chickens where ordinary poultrymen get one; how to use the waste space in your backyard for a healthful occupation that brings happiness and good money; just how to insure your success in any branch of the poultry business. *We guarantee to satisfy you or return your money.* In addition to the books and lessons we give each student five years' free personal help. This alone is worth more than the price of the course.



These Lessons And Our Personal Help Are Your Protection Against Failure And Your Guarantee Of Success With Poultry

OUR GUARANTEE—Money Back If Not Satisfied Every student who enrolls in the American School of Poultry Husbandry must be satisfied. Whether you pay cash in advance or enroll on the installment plan, if upon completion of the course you are not *entirely satisfied*, both with the course and the assistance given you, we will make an effort to satisfy you in every way or your money will be promptly and cheerfully refunded.

If we didn't think we could help you; if we were not positive that we could save you from financial loss and perhaps save you from sinking a lot of money in the poultry business; if we did not feel that we could help you to avoid mistakes and teach you a lot of things that you should know we would not want your money. We have nothing to misrepresent. We would like to have you on our "roll of honor" as one of our progressive and wide-awake students, but if we did not feel and know that we could help and benefit you we would not want you to enroll. There are thousands of people who cannot attend or avail themselves of the advantages of an Agricultural College to one who can do so. It is not necessary for you to give up a good position or to sacrifice your income and your present business to take this course.

Special Low Cash Prices This Month

(This is One-Half of Regular Price if the Coupon below is Used)

- Short Practical Course (12 Books, 21 Lessons) \$15.00
- Complete " " (23 Books, 38 Lessons) 25.00
- " Judging " (7 Books, 18 Lessons) 20.00
- Complete Practical and Judging Courses (25 Books, 48 Lessons) . . . 35.00

These are the reduced cash prices. A slight additional cost if taken on the installment plan. On receipt of cash or first installment of \$5.00, lessons will be sent. These prices also include five years' free personal help by T. E. Quisenberry and a corps of poultry experts.

These lessons pay for themselves many times each season. If you are not satisfied you do not pay. We urge every one to take the full and complete practical course, for that is the one which

Farmer's Wife Makes \$1,782.91



gives you a complete and thorough knowledge of the poultry business and makes your success more certain. However, you will be pleased with either of the courses.

Mrs. GEO. RUSSELL, a Missouri farmer's wife, who raises and handles her chickens the "Quisenberry Way," states that: "Last year I kept 365 Brown Leghorns 'The Quisenberry Way' and the cash sales from my flock were \$1,782.91 and I now have 200 head additional stock besides." Geo. HATCH of California says: "Following your teachings I turned \$275 worth of feed into \$667 worth of eggs last month."

Hundreds of other farmers, farmers' wives and commercial poultrymen are succeeding with our methods. WHY TAKE CHANCES?

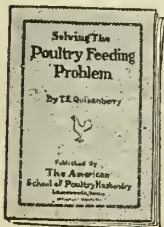
Get This Bulletin on Poultry Feeding FREE! It presents the solution of the feeding problem, the most serious question before poultrymen today. It will enable you to save from 50c to \$1.50 per hundred on your feed. Our book—"Dollars and Sense in the Poultry Business"—contains 72 pages of poultry facts and attractive pictures.

Every poultry keeper should secure these inspiring, helpful books. Valuable alike to fancier and utility breeder, "back-yarder" and professional poultry farmer. They point the road to success. The books are free but we will appreciate 10c in stamps to pay mailing costs.

AMERICAN SCHOOL OF POULTRY HUSBANDRY

Box 206

Leavenworth, Kansas



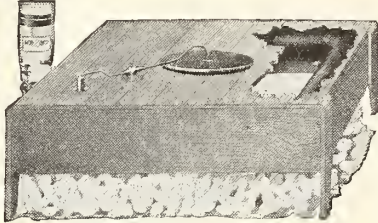
American School of Poultry Husbandry, Box 206, Leavenworth, Kan.
 I herewith enclose \$..... as (full) payment on your.....
 course in Poultry Husbandry, with the desire of understanding that I am to have
 the full range of the above special price and that I have completed the les-
 sons. I am not satisfied with the information furnished and the treatment
 received, that every dollar of my money will be returned.
 Name.....
 Address.....
 Town.....
 State.....
 R. F. D.....

Enlist!

in the Poultry Producers Brigade



And help win the war by raising chickens in a



Liberty Colony Brooder

Build it yourself. Easy! Requires a few feet of lumber, a few joints of stovepipe. We send complete plans and all equipment. Gives you a brooder 44 inches square with all space under canopy available for brooding purposes. Has capacity of average coal-heated brooder. Uses Sol-Hot Oil Lamp and stovepipe hot air system.

Writes: "Have your Colony Brooder running. 410 chicks under it. It's a splendid Brooder. Work is less than with coal stoves." Equipment consisting of Sol-Hot Lamp, Regulator and Thermometer, \$5.00.

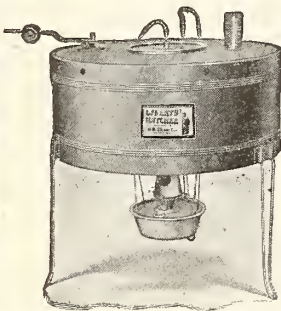
SOL-HOT WICKLESS BLUE FLAME OIL GAS LAMP

Burns coal oil but by combining about 95% air with 5% vapor from this inexpensive oil, produces a perfect blue and Sol-Hot flame. New automatic oil filter enables it to burn low grade oil perfectly. Visible oil feed gives absolute flame regulation and prevents flaring or creeping of flame. Equipped with safety shut-off and automatic flame control. Leaves no residue, smoke or soot. No wicks to trim—no danger. Made in three sizes. Will increase the efficiency of any standard incubator or brooder. Write for booklet describing it.



Liberty Hatcher

is made in two sizes, 70-egg and 100-egg capacity. Nest type. Eggs held in circular rows by inclined rings in deep hatching tray. Chicks drop into nursery beneath as they hatch. Combined damper and flame regulation and construction of egg chamber give uniform heat and save fuel. Surplus heat and foul gases escape automatically. Has standard first class equipment. Durable built-in heating system welded by electricity. Costs little—takes little space. Try for one hatching. If not satisfied, return and money will be refunded.



Write for literature on Liberty Hatcher, Liberty Colony Brooder, Sol-Hot Lamp, Regulators, Lamps, Tanks, Heaters, etc. Free plans for building your own incubators and brooders.

H. M. SHEER CO.

Dept. A Quincy, Ill.

Manufacturers of Incubators and Incubator Equipment for More than 30 Years

Why We Breed S. C. W. Leghorns.

WE BREED S. C. W. Leghorns because they have given us greater returns for the care, attention and feed given them than other breeds have done.

What I am about to tell you, many others have told. However, the merits of this most popular breed should be constantly placed before our readers.

At one time the writer bred White Wyandottes, but soon discovered that they were not the kind wanted. They were not as lively as we cared to have them, consumed a considerable quantity of feed for the return in eggs, and as soon as warmer weather set in, they became broody. Consequently no eggs and no money coming in.

While I kept Wyandottes, my mother kept Barred Rocks.

She cared for them as well as she does now for White Leghorns, but the results were not satisfactory. They, like the Wyandottes, were not active enough, would not work for their feed, which would have given the exercise needed for them to produce eggs in sufficient quantity.

Let me say right here that eggs are the surest source of profit in poultry. I believe I am safe in saying that there are many more egg-farms paying a profit than there are farms whose business is to produce poultry meat. In this connection I also believe that nine-tenths of these egg-farms are stocked with S. C. W. Leghorns. Why? Because they pay best. And in this connection let me refer you to page 97 of the January, 1918, issue of AMERICAN POULTRY JOURNAL, where you will find a report from the egg-laying contest at Storrs, showing the quantity of feed consumed, together with the number of eggs produced. There you will find the Leghorns consumed less feed and produced more eggs than the other varieties.

As a table fowl, I find them a splendid variety. Their meat being of elegant flavor and of fine grain. While they are not as heavy as the meat breeds, one can practically raise two Leghorns to one of the heavier for the same cost. In other words, if one does not satisfy your appetite, kill two.

The S. C. W. Leghorn has given me greater satisfaction from the time the egg was placed for incubation until I parted with the old fowl.

Leghorn eggs run very high in fertility, hatch well, and the chicks are easily raised.

The young cockerels make excellent broilers and bring a good price in the market. They will pay handsome returns when sold at a weight from one to one and one-half pounds. These broilers will usually pay the cost of all hatching eggs and feed until the pullets are from three to four months of age.

While we find the White Leghorns excel as a utility fowl, they have no superiors as an exhibition bird.

Show me, gentle reader, where there is a fowl whose appearance in the show room, or otherwise, is more pleasing than that of the S. C. W. Leghorn.

Breed S. C. W. Leghorns and possess that thing of beauty and a joy forever.

JOHN W. KLEIN

Box 363, Kiel, Wis.



Wendell's

Metal inside and out, heavy case well padded and double walls, automatic as far as can be constructed. A cracken good one.

INCUBATORS

We have specialized on brooders for the past 15 years.

We make all sizes, all metal, Hot Water Heat, Warm Flannel to Lay on Chick's Back. The best on the market. We have not raised our prices this year. 25 to 50 chick brooder for \$2.50—50 to 75, \$3.00—75 to 125, \$4.00. It will pay you to

Send Postal Today for free book
WENDELL INCUBATOR CO., Holly, Mich.

TEN YEARS AGO

10TH YEAR

SEE THAT "XX" ?
POINTS THE WAY.
START RIGHT
YOU END RIGHT

and every day since we have challenged any person to hatch one egg the Magic Egg Tester registers unhatchable before incubation. 2d. We challenge anyone to produce evidence of one 200 egg layer that was not hatched from an egg rated good by the Magic Egg Tester. Unimpeachable testimonials. You save and make money when the Magic Egg Tester picks out the eggs for hatching. Best regulator of correct moisture. No candle nor light. Absolutely scientific, showing register of every egg in plain figures. Circular on request. Price \$2.00 and no expense to use. Latest methods of incubation with every tester. One year's trial. Money back if not satisfied. Orders filled by Insured Parcel Post the same day of receipt.

Magic Egg Tester Works, Dept. B, Buffalo, N. Y.; also Bridgeburg, Canada

*Don't
Delay*

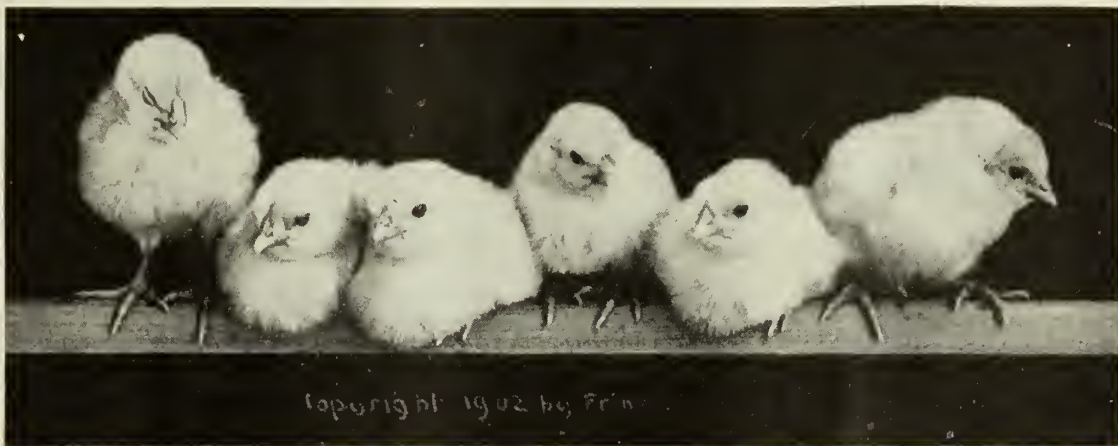
*Send
Today*

The

S. C. W. Leghorn

will save the poultry business of America

*The Only Breed to
Make a Profit in 1917*



Copyright 1917 by F. W. Lord

WE ARE better prepared than ever to furnish the trade with more high quality S. C. W. Leghorn day-old chicks than ever before. We have increased our breeders over 50 percent, and at the present time are building four mammoth brooder houses at a cost of over \$10,000 to take care of the increased W. Leghorn business we believe is coming. We recommend you to follow our example because eggs will be scarcer than ever until long after the present war is over. There will be good profits in Leghorns this year. Grain will be lower and eggs will be higher. If you made any kind of a profit last year you are bound to beat it this year. This is no time for cold feet in the poultry business.

We are selling chicks this year as low as 16½¢ in thousand lots. Our next grade is 19¢, and our A grade is only 22¢, the finest utility mating, we believe, in America at the price.

We now have a hatching capacity of over 100,000 eggs at one time, and large farms that wish to purchase in 1,000 to 10,000 lots will find that we have every facility for handling such orders promptly.

Our strain of Leghorns is known in every state and county, and practically every town east of the Mississippi River. Go where you will and you will find the Lord Farms Leghorns. Scores of plants thru the Eastern states that are now doing a good W. Leghorn business themselves get their start from our stock. We believe there is no other plant in America selling baby chicks whose customers have received better satisfaction from the stock they have purchased. From a small beginning we have steadily grown to our present size, and this has been accomplished entirely by good service to the trade. Our idea from the start has been to deliver uniform shipments of the highest class utility Leghorns.

Don't forget that your profits for the coming season depend to a great extent on where you place your order for chicks.

Our catalog, mating and price list
mailed immediately upon request.

*It's Sure
To Pay*

LORD FARMS, Inc.
Box 240-M
METHUEN, MASSACHUSETTS

*What Do
You Say?*

McOMBER'S
Black Langshans



Won Best Display in Langshans, Chicago Coliseum, 1916.

Hutching Eggs from my best pens \$5 for 15

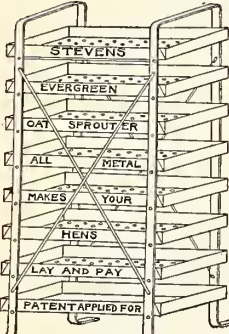
G. O. McOMBER
 Box 83
 Berrien Springs, Mich.

1st Cock Chicago Coliseum 1916

ANOTHER BACKLOTTER'S EXPERIENCE.

I HAVE been interested in reading the experiences published in The Journal of those keeping poultry in a small way in towns and cities. Perhaps others will be interested in mine.

taken care of their poultry, I cleaned out and thoroly disinfected the house and limed and spaded up the yard. We bought six Rhode Island Red hens, three or four of them broody, but broody hens were what we wanted. We then bought four settings of eggs, three of Reds and one of White Rocks. We got nearly a

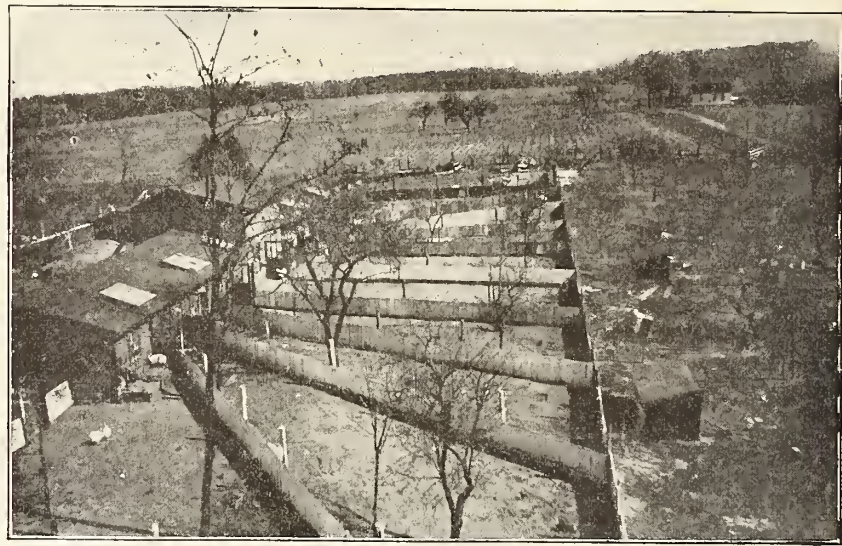


STEVENS
"Ever Green" Oat Sprouter
 All Metal

8-Pans 11x15 in. for only \$3.75
 5-Pans 11x15 in. \$3.00
 8-Pans 11x30 in. \$7.50

A little more west of Mississippi river. Order one direct from this adv. or send for circular. Satisfaction guaranteed.

H. A. Stevens
 146 E. Main St.
 Batavia, Ill.



One of the breeding houses on the White Wyandotte Farm of Chas. V. Keeler, R. F. D. 11, Winamac, Ind.



Celluloid Bands
 Wholesale
FRANK CROSS
 Manufacturer
 BOX 506, MONTAGUE, MASS.

In the spring of last year we moved to a place in a small city in another state. There was a small henhouse, about 6x8 feet, on the place, with a yard about 15x25 feet. As I didn't know how well the former tenants had 100-percent hatch from the Reds, but not so good from the Rocks, a lack of vitality, I think, in that particular batch of eggs. We did not lose a Red on the way to maturity, but several of the Rocks died.

You Can't Go Wrong If You Buy A Newtown Colony Brooder

- Coal-Burning
- Self-Feeding
- Self-Regulating
- Efficient
- Economical
- Durable
- Safe



The first successful coal-burning colony brooder. Imitated but never equalled.

The modern coal-burning colony brooder is the most satisfactory brooding equipment ever produced. And the Newtown is acknowledged to be *the most efficient brooder of this type.* In all parts of the world, under all conditions, the Newtown *"raises the most chicks, the best chicks, with least labor and at lowest cost."* Ask any Newtown owner!

The Newtown was the first successful coal-burning colony brooder on the market. The first Newtown was a wonderful brooder, but through years of experience we have improved it in various details until today it is scientifically and mechanically perfect—the *one perfect brooder.*

Made in five sizes, for any number of chicks to 1000. Carefully constructed of superior materials, built to last for years. Burns coal, either hard or soft. (Gas burner can be furnished.) Fuel self-feeding. Self-regulating. Freely ventilated. Safe. Easy to install. Requires no special building. Simple in operation. Efficient to the highest degree. **GUARANTEED.**

Not the cheapest brooder in price or construction. But priced moderately and greatest value for the money. Tell us about how many chicks you plan to grow this year and we will mail brooder catalog free.

The Newtown Giant Incubator, like the Newtown Colony Brooder, is the choice of the most successful poultry raisers. Built in many sizes, 600 to 24,000 egg capacity. Let us know which size interests you and we will promptly forward full information regarding it.

I made individual coops or boxes for each hen and her brood, staking the hen within reach of her box and allowing the young chicks the freedom of the yard until half grown or large enough to be of some damage to our garden. We brought these chicks along on wheat, bran and middlings and on such chick food as we could find in the town. The pullets came into laying about the first of December. We had not intended keeping any cockerels, so used them on the table. We now had the six hens, six nice White Rock pullets and fifteen Red pullets, twenty-seven in all; but from broodiness or colds, thru the winter there were probably not more than twenty-five layers at any one time.

We kept a careful record of receipts and expenses from the time we bought the six hens to the 10th of the following May, when we left the place and had to sell our little flock.

The following is the egg record—for the summer, of course—only from the hens until the pullets commenced laying (June missing): July, 36; August, 98; September, 101; October, 53; November, 39; December, 60; January, 183; February, 277; March, 506; April, 507; to May 10th, 200; total, 2,060. The daily lay in the best months was from 12 to 22, the last number being laid on one of the coldest days of the winter. Our method of feeding was about as follows: In the morning, a mixture of whole oats (the oats soaked over night), wheat and a little corn; at noon only the table scraps, unless these were scant, when a little moistened bran and middlings were added; at night, corn, wheat and a little sunflower seed.

For green stuff, we fed lawn clippings, kale, cabbage, beet leaves, mangels, etc. Fowls are very fond of the large leaves of kale. Grit, oyster shell and charcoal were before them all the time, in a home-made feeder, with the proper compartments. Also, we saved the shells of all eggs used and, when perfectly dry, pounded them up and fed to the flock with the oyster shell. I also made a feeder in which we aimed to keep heavy bran all the time, but they ate it so fast that I sometimes let them go without.

Always—morning, noon and night—I saw to it that they had fresh water, given in a box made water tight by a coating of cement. This matter of water is of as much importance to poultry as feed. Watch a flock after feeding and you will see that this is so. But ask some poultry keepers and they will tell you sometimes their hens get water and sometimes they do not. But

S.C.W. Leghorn and White Rock

EGGS for HATCHING AND BABY CHICKS

from America's greatest layers. Trapnest records of 200 to 264 eggs guaranteed. This is not a hatchery, but a real poultry farm and we own and know every fowl and the record and condition of it. Vigor, vitality, full count, safe arrival and absolute satisfaction guaranteed. 40,000 chix for 1918. Orders being booked every day for April, May, June and July deliveries. Order now if you want to get in on this wonderful bargain.

Prices—Eggs, \$6 to \$9 per 100. Chix, \$12 to \$18 per 100. Write for free catalog today.

MAPLESIDE POULTRY FARM
U. A. Christensen, Prop. Lost Nation, Iowa

FERRIS HIGHEST QUALITY SUPPLIES

EVERYTHING FOR POULTRY

EGG CARTONS AT LOWEST PRICES Three row cartons, \$1.00 per 100. \$6.50 per 1,000. \$52.00 per 10,000. Two row cartons, \$1.40 per 100. \$9.00 per 1,000. \$70.00 per 10,000. Printed with your name and address at slight additional cost. Catalog gives full particulars.		
CHICK SHIPPING BOXES 25 chick size, \$1.90 doz., \$12.50 per 100. 50 chick size, \$2.65 doz., \$18.00 per 100. 100 chick size, \$3.35 doz., \$24.00 per 100.	HATCHING EGG BOXES 15 egg size, \$1.50 doz., \$10.00 per 100. 30 egg size, \$2.15 doz., \$14.00 per 100. 50 egg size, \$3.35 doz., \$24.00 per 100. 100 egg size, \$4.25 doz., \$30.00 per 100. Special prices on larger lots.	
Market Crates Standard size 2 ft. by 3 ft. 12 inches high. 45c each. \$40.00 per 100. See catalog for other sizes and kinds.	SHIPPING COOPS For Fancy Stock. Lightest and strongest coop on the market. Weighs only 10 lbs. 12 x 24 x 20 in. high, \$4.80 per doz., \$35.00 per 100. 18 x 24 x 20 in. high, \$5.70 per doz., \$42.00 per 100.	
BROOD COOPS Two styles as illustrated. Size 17 x 23 inches. Made of heavy galvanized iron. Price \$2.50 each, 1/2 doz, \$13.00, 1 doz, \$25.00. Catalog describes Setting Coops, Chick Runways, Colony Coops and all the equipment you need to raise chicks successfully.		
Electric Incubators All sizes from 60 to 500 eggs. Also lamp heated incubators from 60 to 2500 egg capacity. We guarantee them to hatch good.	BROODERS All kinds - Fireless, Coal Burning, Oil Burning, Electric. Capacities from 50 to 1000 chicks. Prices \$2.75 up.	
EGG CANDLERS We carry a complete line at all prices from 35c to \$7.50. Be sure to send for catalog describing them.	THERMOMETERS For any make of incubator or brooder. Price 85c each. Also thermometers with electric light attachments and others that ring bell if temperature gets too high.	
EGG STAMP Name and address with dates \$1.75. Without dates \$1.35.	LICE KILLING NEST EGG Place in nests and rid your fowls of lice. 75 cents per dozen.	
Celluloid Leg Bands For Chicks, 10c doz., 50c per 100. For Hens, 15c doz., 75c per 100. Catalog describes 14 kinds of bands.	TOE PUNCH For marking little chicks. As illustrated for only 25 cents. Several other styles at low prices.	
WATER FOUNTAIN For Chicks Used in connection with an ordinary Mason Jar. Price 15c each, \$1.50 per doz.	<h2 style="margin: 0;">Satisfaction or Money Back</h2> <p style="margin: 0;">If you are not fully satisfied with any articles you buy from us you can return them at our expense and we will refund your money. We carry only the best quality goods—the kind we can recommend and guarantee. We buy in carload lots, sell for cash, and quote lowest prices. Prompt shipment is one of our features, all orders being filled within 24 hours. Eighteen years of steadily increasing business assure you careful attention to all orders you send us.</p>	
Feeding Troughs For Feed, Wet Mash or Water. Three sizes — 12, 18 and 24 inches long. Lowest prices.	NESTS Metal or wood. Several kinds at lowest prices. See catalog for particulars.	
FEED HOPPERS We have so many kinds of hoppers and grit and shell boxes that there isn't space to list them here.	TRAP NEST (front) Fastens to orange crate or other box. Price 50c each, \$5.50 doz. Wood and metal trap nests—all kinds.	
HOPPER with Rain Guard For outdoor use. 20 quart capacity. Price \$3.50.	ROOSTING OUTFITS Equip your poultry house with these outfits. Several styles. Also lice proof roosts.	
Crockery Fountains Never wear out. Sizes from one quart at 35c to two gallon at 60c.	CLOVER CUTTERS Root Cutters, Cut Sprouters. Every modern method of supplying your fowls with green food.	
Thermos Fountains Keep water cool in summer and warm in winter. Three sizes. Catalog gives particulars.	GRINDING MILLS Grind your oyster shell, grain, etc., in one of these mills. Price only \$3.75.	
Round CHICK FEEDER A great feed saver as the chicks cannot get into it. Large size, 35c each, \$4.00 per doz. Small size, 20c each, \$2.25 per doz.	FEED MIXERS Several styles — both hand and power. Properly mized mash gives best results.	
AUTOMATIC FEEDERS If you do not have time to feed your birds regularly, you need these feeders. Several sizes and kinds from \$1.65 up.	FEED COOKERS Several different kinds, from the cauldron cooker as illustrated, at \$13.50 to steam cookers at \$15.	
DISINFECTANTS and Lice Destroyers Get our prices before you buy. We have several kinds. Our Carbolineum Lice Killer at \$1.35 a gallon will keep mites away an entire year with one application.	BONE CUTTERS Fresh cut bone is better and cheaper than meat scrap. One of these cutters will soon pay for itself.	

Get Your Copy of This Free Catalog

No matter what you may need in the line of poultry supplies we have it. The items listed above are only a few of the several hundred articles that are described in the catalog. Our prices are low, and we guarantee everything you buy to give complete satisfaction. If you order anything that is not just what you want you can return it at our expense and get your money back. We also ship C. O. D. if desired. Send for your copy of the catalog now — you are sure to need some of the articles described.

GEORGE B. FERRIS, 605 Shirley St., Grand Rapids, Mich.



Eggs and Broilers are the reasons why you raise chickens. To get the most of either you must have strong, healthy, vigorous birds in your flock. Healthy birds come from healthy chicks—not from chicks whose vitality is sapped by lice and mites and contagious disease germs. Nothing—not even feeding—contributes more to success with poultry than clean, sanitary, living quarters. The houses may be built of old packing cases or of finest matched lumber and according to most modern plans, but they must be kept clean and sanitary, and free from lice, mites, and disease germs in order to get satisfactory results.



You can make your houses sanitary—free from lice and mites—and prevent the germs of contagious diseases—such as white diarrhea, roup, etc.—from getting a start and spreading through your flock, and at the same operation you can paint the houses a clear, snow-white, making them lighter, brighter and more attractive looking. Follow the example of thousands of poultrymen and many U. S. Experiment Stations, large dairy and stock farms, and use

CARBOLA

The Disinfecting White Paint

Carbola comes in powder form and there is a size package to suit your needs. Just mix the powder in a pail with cold water and it is ready to use—no waiting, straining or bother. One pound with a gallon of water covers about 250 square feet. You can put it on with a whitewash brush or a spray pump, to wood, brick, stone or cement or over whitewash. It will not clog the sprayer, nor blister, flake or peel off. Has no disagreeable odor and is harmless to the smallest chick. The dry powder is unexcelled as a lice powder.

Carbola Dries A Clear Snow White
Use Carbola to disinfect your incubators and all your poultry buildings, stables, dairies and piggeries. It makes work easier and gives better results. Give it a trial and save time, money and labor. Money back if it is not what we claim.

10 lbs. (10 gals.) \$1 and postage 20 lbs. (20 gals.) \$2 delivered
50 lbs. (50 gals.) \$4 delivered
Trial package to cover 250 sq. ft., and booklet.
The Disinfectant that Paints—For 25c postpaid.
Carbola is sold by hardware, seed, paint and drug stores. If your dealer has none send his name and your order direct.
Carbola Chemical Co. Inc. Dept. I 7 East 42nd St. New York



Harrington
Delaware

March 4, 1917.

Carbola Chemical Co.,
New York City

Gentleman:

Enclosed find check and my order for Carbola.

Because of lack of room I am forced to use my brooder houses in winter for layers. It doesn't worry me though because I put on Carbola every spring. I would hate to raise young chicks without it

Yours very truly,
P. MORTIMER BROWN



the hens get even with them by laying fewer eggs.

You will notice but little variety in the grains we fed, as we had to feed just what we could get. We could get no kafir, and most all winter no corn, just what we needed for cold weather.

In the following account I charged ourselves at the market rate for all cockerels and eggs we used on the table. Thus:

Cockerels and cull pullets used..	\$17.90
Eggs used.....	33.90
Eggs sold.....	15.45
The flock of 27 sold.....	27.00

Total income of the venture... \$94.25

We paid out from beginning to end, including the six hens as a starter, for occasional remedies, 95c; for wire to enlarge yard, feed for chicks and mature stock, \$50.63, leaving us to the good \$43.62. And the labor was really an asset in pleasure. A. W. BEALE, Manhattan, Kans.

Types of Incubators.

THAT every poultryman or woman should own and operate at least one incubator is a certainty. The nation needs the additional meat supply and every right-minded poultry keeper will surely recognize the need for all the incubator capacity he can use. The question of what kind of an incubator to use is one which puzzles many and a helpful explanation of the various types and kinds of incubators will probably be welcome. For convenience, incubators are classed as "mammoth" machines and small machines. The mammoth incubators run in sizes from 1,200-egg upward as high as 10,000 or 20,000-egg capacity and sometimes higher. They are usually sectional in construction, heated by hot water and using one coal-burning heater for the source of fuel. Gas or oil is used as fuel in some types and there are various distinctive features peculiar to the kind or make of incubator in question. The use of mammoth incubators is practically confined to the larger poultry breeding plants and those making a specialty of hatching in very large quantities.

The so-called small incubators range in size from 30 or 40-egg capacity up to 200, 300, 400 and even 600 or 800-egg capacity. The machines holding over 400 eggs or thereabouts are frequently called semi- or baby-mammoth sizes, because of their relative size. The small machines are commonly called as "hot water" or "hot air" types, which refers to the manner in which the egg chamber is heated. The "hot water" incubators depend upon the principle of radiation to distribute the heat, somewhat on the order of the hot water systems in homes. A metal tank or pipe system, usually made of copper, is built in fixed position into the incubator and is filled with water heated by a lamp attached to the machine. The heat radiates to the eggs on the tray in the egg-chamber, keeping them at the required temperature during the hatch. In the "hot air" type of incubator there are some variations in the exact principle of heating. In some makes warm air is introduced into the egg chamber and diffuses over the eggs, in others the heated air does not enter directly into the egg chamber, but is confined first to a metal tank from which

"SUNLIGHT" POULTRY FARM S-C-W-LEGHORNS



I Want Your Chick and Egg Business this Year

Place your order NOW if you want to get the special early dates. The demand for my Leghorns far exceeds my output from year to year. The majority of my customers place such reliance on my chicks and eggs that the demand for them has proven beyond my capacity. I invite you especially to place your order now, and just see for one season what

"Sunlight" S. C. W. Leghorns

will do for you. I don't claim them to be world beaters, but just the kind of hens that average to make a good all around profit at the end of the year. I have never tried to get business in the past by exaggerated advertising. I could easily claim my birds to be a 250-egg strain, as lots of others do. My chicks are the cheapest to buy at any price, because they are so easily raised. Really 90 percent of my customers raise 90 percent of the chicks I ship, which proves the vitality and stamina in my stock. Remember, I don't simply run a "hatchery" here. Every chick and egg shipped from here are from my stock here on the farm. Breeding stock for sale. Write me for prices and state your wants plainly today. Catalog free.

SUNLIGHT POULTRY FARM, Box 200, Lynchburg, O.

Here is the Feeder and the Fountain

for which every poultryman has been looking. It combines all the good qualities of the ordinary Mason jar fountain and feeder with the good qualities of the best baby chick feeders on the market. The bottom of the feed pan slopes from the center to the edges, thereby insuring a free flow of feed from the jar to the edge of the pan, where the chicks can reach it thru the openings. The small openings prevent dirt from getting into the pan—prevent the chicks from getting into the feed or water and prevent them from crowding too close around the feeder, thereby giving the weaker chicks an equal chance with the stronger ones. This overcomes every objection to the ordinary open pan Mason jar feeder and fountain. It fits any Mason jar.



2 for 35c

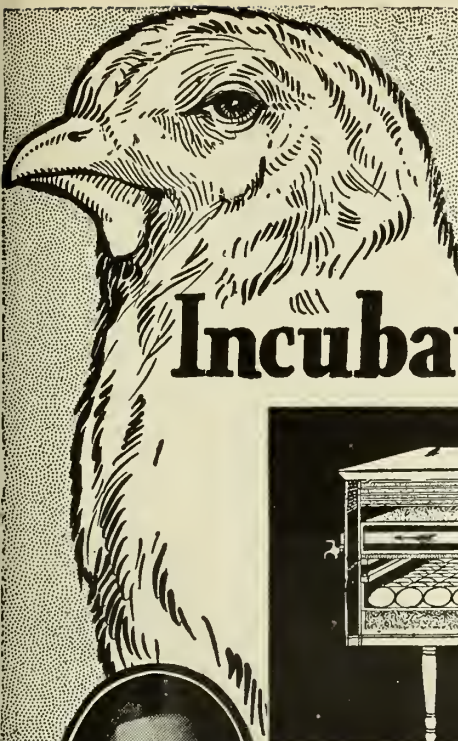


3 for 50c

The top of the pan can be removed in a second to clean or fill. It is the most inexpensive, most practical and most sanitary feeding and watering device on the market and is fully covered by U. S. letters of patent. If ordered from this ad we will send them postpaid to any address in the United States. **SIMPLEX SUPPLY HOUSE 1300 Pontiac Bldg. CHICAGO, ILLINOIS** Send for our complete Catalog of Poultry Supplies and find out about our marvelous Feather Brooders; also Automatic Grain Feeders and Non-Freezing Water Fountains.

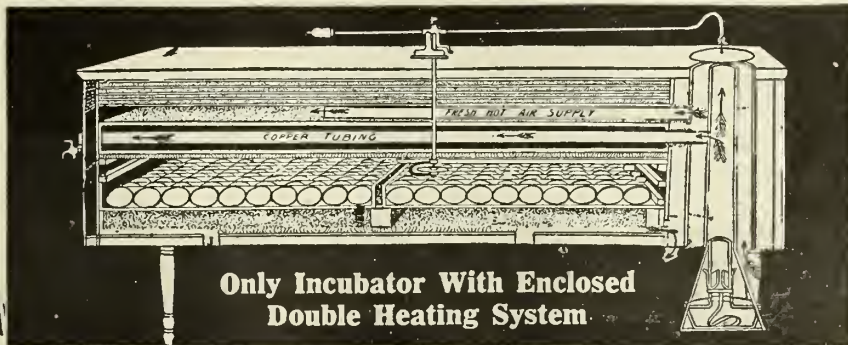
Barred Plymouth Rocks Large and Prolific LAYING STRAIN

Bred for Eggs, Size and Perfection for 20 years. A fine lot of Cockerels for sale at once, from extra good laying hens. Eggs at all times. **Wm. J. Davis, Eaton, Indiana, Rural Route No. 1**



STANDARD RELIABLE

Incubators and Brooders



Only Incubator With Enclosed Double Heating System

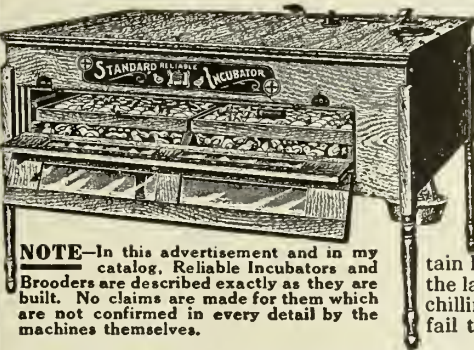
Poultrymen: It Will Pay You to Study This Illustration

If you contemplate getting into the big "Poultry Drive" this year by increasing your hatching capacity, or if you are about to start in the business, it will pay you to give a few minutes' attention to the cross section view of the Standard Reliable Incubator case shown above.

This illustration shows in detail the Reliable system of automatic moisture supply and ventilation; also the enclosed double heating system, one of the important exclusive features that distinguish the Standard Reliable over all other incubators and make it the



J. W. MYERS, Pres.
America's Largest
Incubator Factory.
40 Years' Practical Experience
in Poultry Raising.



NOTE—In this advertisement and in my catalog, Reliable Incubators and Brooders are described exactly as they are built. No claims are made for them which are not confirmed in every detail by the machines themselves.

Fuel Economy is an important item in these days of high cost, especially if you are using a number of machines. The Reliable has a record of saving half the fuel at every hatch, because it utilizes the heat from the lamp more completely.

Cold Weather Hatching is made doubly sure, for the Reliable double system of heating always supplies ample heat and is a double safeguard against chilling in case of sudden changes in outside temperature.

Patent Heat Regulator, with thermometer tested by U.S. Government standard; automatic moisture supply and ventilation, are the most perfect that science and skill can produce—make the Reliable practically trouble proof and failure proof.

Solid, Heavy Construction Insures Life-Time Service

Built by specialists in incubator construction, who take pride in every detail of their work. Case of air dried redwood, finely finished; top and bottom tongued and grooved; double walls and top heavily insulated; double glass doors, strong legs; has roomy chick nursery with removable inner floor for easy cleaning.

All sizes and styles to suit your needs or preferences—from 80 eggs to 2,000; hot water or hot air. Shipped ready to start, except attaching legs, which are detached to make more compact package and save freight charges.

Large output and up-to-date manufacturing facilities enable me to place the Reliable on the market at an attractive price.

New 100-page Poultry Book FREE on request. The coupon or a post card brings it to you. J. W. MYERS, Pres.

RELIABLE INCUBATOR & BROODER CO.
Dept. A-1 Quincy, Ill.

Most Successful and Economical Hatching Machine in the World

Note that *all heat from the lamp* passes directly into and through the machine. It radiates from hot air pipes and at the same time heats the water in copper tank, both extending full length of egg chamber.

The hot air system alone would maintain hatching temperature, if necessary; and the large body of hot water would prevent chilling should the hot air system temporarily fail through neglect.

\$5 brings you this high quality 60-egg Reliable Special Incubator. Built with same care and has same perfect regulating system as the Standard Reliable. Double walls, outer wall of thoroughly seasoned wood; mahogany finished, hot air heated. Guaranteed to hatch any egg the hen can hatch.



A real bargain—good work for years. I'm responsible and stand behind it. Order now! Send cash or P. O. order.

Enclosed find \$5 (cash, money order, check) for which please send me one Reliable Special Incubator, money to be returned to me if machine is not as represented. Send Free Poultry Book and prices on Standard Reliable Incubators and Brooders. (A-1)

My Name.....
P. O.
State

RELIABLE BROODERS

pay for themselves in saving young chicks. Hover chicks better than the hen—keep them dry and free from vermin. Built in all sizes, for outdoor or indoor use.

Get High-Priced Winter Eggs

Prove it at My Expense



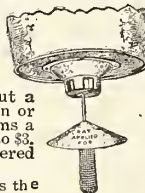
The Collins Oat Sprouter doubles the egg yield, cuts the feed bill 50%, makes hens healthy. Heavy galvanized iron throughout. Pans lift off separately, exact perforations to prevent mold. No dirt, no trouble, simply set beside stove, furnace, or in sunny window. Water top pan. In a few days you will have fine growth of green for your hens. You cannot afford to keep chickens with grain so high without a Collins Oat Sprouter. Even with metal and labor so high we sell you

8 pans, 11x15 inches, Popular Size, for only **\$4.00**
 5 pans, 11x15 inches, Back-yard Size, \$3.00
 8 pans, 11x32 inches, Big Breeders, \$8.00

Delivery charges paid. West of Mississippi River add 50c; West of Rockies add \$1.
 "I like the Sprouter fine; it makes the hens sing."—Miss Ada Bird, Ringoes, N. J.

Collins Exerciser and Feeder 50c

No more wasting of high priced grain; no lazy, overfat, non-laying hens if you own and use a Collins Labor-Reducing, Time-Saving Exerciser and Feeder. No waster; reduces feed cost;



rat and bird proof; makes for better hens. Increases egg yield; improves fertility. None better made.

This Helps Win the War and you get more eggs at less cost. Just cut a five-inch hole in the bottom of an old wooden or metal pail (leave the new metal for the Government). Attach the feeder; the cup forms a funnel, and you have for 50c a feeder and exerciser that would ordinarily cost from \$1 to \$3. Strong, well put together, of heavy galvanized iron with steel rod. Only 50c when ordered with Sprouter. Separately, add 10c for parcel post.

"The Feeder and Exerciser I ordered of you is all right. I have three different kinds but yours is the cheapest and best."—Clarence Lester, Centralia, Ill.

Yes, of course, I have circulars, but don't write for them. I want you to see and use my Sprouter or Exerciser and Feeder. So if interested as either poultryman or agent, order a Sprouter or Exerciser, and Feeder or both, use 10 days, if not the grandest thing you've ever used in the poultry line, return and I will refund money.

DEALERS: ORDER SAMPLES TODAY:
 Display cards, circulars and electros furnished

W. H. COLLINS, Manufacturer and Inventor 20-G Harrison Street NEW YORK, N. Y.



THE UHL HATCHERY

When an organization can announce, as we do,

OUR EIGHTEENTH SUCCESSFUL SEASON
 It means that we have satisfied our customers—given them honest value and fair treatment.
 This year we are again ready to supply

40,000 CHICKS per WEEK

If you want the best there is in Baby Chicks, for show or utility, we can supply you at the most reasonable prices—Barred, White and Buff Rocks; R. and S. C. Reds; White and Silver Wyandottes; Buff and White Orpingtons; S. C. and R. C. White Leghorns; S. C. and R. C. Brown Leghorns; S. C. Buff Leghorns; Mottled Anconas; S. C. Black Minorcas; W. F. Black Spanish; Light Brahmas;

L & CO. Box A NEW WASHINGTON, OHIO

PALMER'S BARRED ROCKS

One of America's Supreme Strains

proven by their remarkable winnings at the leading shows all over America this year as well as they have done almost every year for over 25 years. Write for mating list and prices of eggs for 1918.

SPECIAL BARGAIN PRICES ON FINE BREEDING STOCK

D. F. PALMER & SON - Box 35 - YORKVILLE, ILL.



AT COLUMBUS in THE WHITE ROCK CLUB SHOW last Month, NOBILITY WHITE ROCKS WON for US

1st, 2nd and 4th cockerel; 3rd and 4th cock; 2nd, 4th and 5th pullet. Special for whitest Rock male and National White Rock Club cup for best display. Write us for prices on breeding birds, show winners and eggs for hatching. All pens will be headed by either a first or second prize male bird at Cleveland or Columbus.

PIERCE & CUSHION - Wellington, Ohio

heat radiates to the eggs, and in still others a combination is employed.

There are several modifications of these heating principles in the different kinds of dependable incubators sold on the market. The advantages claimed by each manufacturer are carefully described in their catalogs and it is always best to thoroly study the literature to be familiar with them and make an intelligent choice.

The source of heat is commonly an oil-burning lamp. Some electric incubators are on the market and giving good satisfaction, but they are less common and can be used only where electricity is available.

Various manufacturers locate the lamp differently in their incubators. Some attach the lamp and heater on the side of the machine, some locate it under the machine near one end, and others place it in the center beneath the egg chamber. There are reasons for doing so in each case, according to the distinctive type of incubator.

You will find both round and rectangular shapes in different incubators sold today, each distinctive in design and obtainable in various sizes. Some machines are all-metal, some are metal covered over wood, and others are all-wood in construction. Some also are made of material similar to the pulp wall board used as a substitute for lath and plaster in building construction.

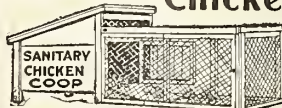
The big majority of incubators are completely assembled before leaving the factory, with the exception of the legs, the lamp bracket and lamp, and the regulator. These are carefully placed inside the machine and the whole carefully crated for shipment. It is possible, on the other hand, for one to buy the plans and separate parts and build his own incubator if he chooses. Such opportunities are offered, and appeal to many who like to do such work. On a third hand, some incubators are assembled only in part, shipped crated to the customer knocked-down flat, and have to be put together before they can be used.

Incubators are sold everywhere in the country thru local dealers or direct by mail, according to the selling plan of the manufacturer. Inquiry with any of the responsible advertisers will give you explicit information on their product and their methods.

Next to your choice of a good hatcher, the decision as to the best size suitable for your needs is of greatest importance. Do not make the mistake of buying too large an incubator for your needs. It is generally conceded that two smaller machines, for instance of 150-egg capacity each, are more preferable than one 300-egg size, unless the larger one can be filled with eggs not more than a week or ten days old when put into the machine. The fresher the eggs, the more even and satisfactory will be the hatch. Determine the egg capacity you need by the egg supply you will have and equip yourself accordingly.

HUBERT D. WHITE.

Sanitary Chicken Coop



All wood, made of Cypress, easy to clean. Shipped, knocked down. A labor saver. Price low. Send for circular.

SANITARY CHICKEN COOP CO. GREENFIELD Box A INDIANA

Why I Breed Single Comb Brown Leghorns.

HAVING bred this variety for more than a quarter of a century, I should be able to give a very good reason why I have bred them so long. If I were breeding Brown Leghorns simply for the dollars I could make out of them, I might choose some larger and meatier breed, but there must be more than profit in a chicken to satisfy me. I find pleasure, recreation and a field for all the skill and ingenuity of which I am capable of exercising. To breed high-class Brown Leghorns, such as are shown at our best exhibitions, good enough to win, requires a skill and perseverance that will tax to the utmost anyone who undertakes the job. If first-class exhibition Brown Leghorns were more easily produced, I have no doubt there would be more breeders. On the other hand, if every one who calls themselves a fancier were capable of producing good exhibition birds in large numbers, they would be so plentiful that they would become cheap, from a commercial standpoint. Last season I purchased some eggs said to be from a strain with a very heavy egg production, when they grew up they did not prove to be much better layers than my own. They seemed to mature quicker, but they are much smaller. The males have large combs and high tails, with color apparently between the light and dark Brown Leghorn, while the females are just Leghorns, so far as color is concerned. I confess that the few eggs they might lay more than my exhibition-bred stock, if they laid any more, would be a very trifling recompense to me for the many other points in which they fail. The high-class Brown Leghorn male has a perfection of color possessed by few other varieties. A careful examination will show every feather, from the top of the head to the base of the tail, distinctly striped with a lustrous black and every feather laced with rich brilliant red; the two colors being as sharply defined as if drawn with the genius of an artist. The striping and lacing varying in shape and width in each section, but always holding that sharply defined margin. This is one of the nice points in breeding Brown Leghorn males. Too many of them are bred with the colors running into each other, losing their brilliancy and beauty. This color a breeder can produce, but it takes a fancier to produce the first-named color. In the female we find entirely different color problems. A correctly colored Brown Leghorn female is a thing of rare beauty and is as hard to secure and hold as the color of any other variety. To secure a back and wings one even shade of velvety brown, finely stippled and free from shafting or brick on wing bows, and at the same time have a neck with a clean black stripe, with well defined golden edges, will test the ability and skill of the most capable fancier. Not only does their color appeal to me, but their shape seems to me the correct thing in a fowl. A Leghorn is strictly a bird of curves when bred according to Standard requirements, and as fancier's fowl has no superior. As egg producers, when properly housed and cared for, they are highly profitable, producing a larger number of eggs in proportion to feed consumed than most other breeds,

WALHALLA

Buff Orpingtons



Buff Minorcas

The Strains of Quality

WHY You Should Buy from US

The most important questions for the buyer to consider when purchasing breeding stock, eggs for hatching or baby chicks are: "What blood lines and breeding are behind the stock I am purchasing?" Have they been carefully bred so that they will transmit their own good points to their progeny? The way to answer correctly these questions is to buy foundation stock from an established strain that is beyond the experimental stage. Our birds have the breeding and blood lines in them that make certain their producing qualities.

We believe our strains have the right to be called an established one. The birds in our original flocks were superior specimens selected from leading flocks of their day. With each succeeding year we have more closely amalgamated the blood lines and have made noticeable improvement in the more important points of the breeds. We have flocks that are noted for birds of superb type and color. During these years the utility qualities have not been neglected. High flock averages are obtained, with the heaviest egg yield during the cold winter months when eggs are the highest in price.

OUR WINNINGS IN 1917

BUFF ORPINGTONS — Michigan State Fair: 3 Firsts, 2 Seconds, 2 Thirds, 2 Fourth, 2 Fifth.
Chicago Coliseum: 4 Firsts, 4 Seconds, 2 Thirds, 3 Fourth, 1 Fifth, and 5 Silver cups.

BUFF MINORCAS — Michigan State Fair: 3 Firsts, 4 Seconds, 4 Thirds, 3 Fourth, 2 Fifth.
Chicago Coliseum: 6 Firsts, 4 Seconds, 3 Thirds, 2 Fourth, 2 Fifth.

We especially call your attention to the phenomenal records made by our two varieties during the past fall and winter show season. Our birds also have won great victories at Madison Square Garden, N. Y., New York State Fair, Hagerstown, St. Louis and Buffalo. Nothing to approach it has been accomplished by any other exhibitor. Something for your serious consideration before placing your egg, baby chick and stock order. The ideal natural conditions under which our birds are raised and the rugged northern climate makes them vigorous and hardy and as breeders they cannot be beaten. Such birds will insure a high percentage fertility in the eggs and baby chicks hatched from such eggs are full of "pep," as lively as crickets and are able to stand shipment to any part of the country. Book your order for eggs and baby chicks well ahead of desired date of delivery. It is the only safe way to avoid disappointment. The demand is likely to be greater than the supply.

EGGS FOR HATCHING

Special Matings . . . \$15 per 15; \$25 per 30
Exhibition Matings \$10 per 15; \$18 per 30
Quality Matings . . . \$5 per 15; \$8 per 30
Guarantee: All infertile eggs replaced free

FARM FLOCKS

\$8 per 50 \$12.50 per 100

BABY CHICKS

Exhibition Matings \$1 each Farm Flock25 each
Quality Matings50 each Safe arrival guaranteed.

We still have a very large line of selected breeders — male birds that will stamp the quality on your flock; females that carry blood lines and egg-yielding qualities.

Cocks or Cockerels, \$5 up to \$50 Females, from \$5 up to \$25
Pens mated with the utmost care of high-class producing quality, from \$25 to \$100

All our stock is shipped on approval. You can return any bird not satisfactory and your money will be refunded. Write for our mating list; it's free.

WALHALLA POULTRY FARM

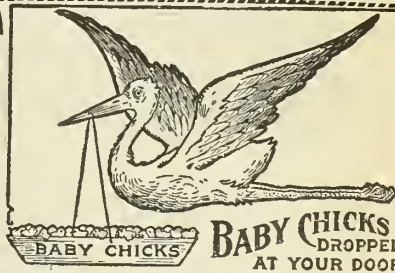
CARL E. SCHMIDT, EDWARD F. SCHMIDT, R. 1 Oscoda, Michigan
Owner Poultry Manager

For Nine Years

this wise old bird has been the emblem of

Better Hatched BABY CHICKS

On over 12,000 trips he delivered over 2,000,000 chicks to the doors of our satisfied customers.



BABY CHICKS DROPPED AT YOUR DOOR BY THE EXPRESSMAN

His Services Are Needed This Year More Than Ever Before. America responded nobly during the past year to the call for help from the suffering countries across the sea, but our efforts must be redoubled next year, for never before was there such a scarcity of poultry.

Order Your March Chicks Now

from our flocks of pure bred, farm raised S. C. White, Brown and Buff Leghorns, S. C. Black Minorcas, White and Barred Rocks, S. C. and R. C. Reds, White Wyandottes, S. C. White and Buff Orpingtons.

Send for Our Handsome Catalog which gives prices and tells of our methods.

THE CO-OPERATIVE BREEDING & HATCHING CO., Box 12, TIRO, OHIO



Flock Treatment

I have personally counted more than 2,000 dead lice under a row of ten hens, on a roost board painted the night before with Lee's Lice Killer.

Lousy hens will not lay, but they will lay when rid of the vermin.

Flock treatment is the modern method of handling chicken troubles, whether lice, mites, roup, colds, bowel complaint or other ailment. Life is too short to doctor each individual case.

LEE'S LICE KILLER has for twenty years stood alone in its easy effectiveness for ridding chickens of their insect pests, lice and mites. Painted or sprayed on roosts, it does triple duty: gets the mites on the roosts, the lice on the bodies of the chickens roosting over them and the leg parasite causing scaly leg.

GERMOZONE does more than triple duty in flock treatment. It purifies the water and the food in the crop. It prevents the drinking contagion from sick to well birds. It keeps the bowels regular—and regular bowels mean health. It counteracts musty or spoiled food. It is a remedy for colds, roup, canker, chicken pox, bowel complaint.

Then there's **LEE'S EGG MAKER**, a finisher as well as a starter in flock treatment for egg production, and **EGG-O-HATCH**, the great chick strengthener and shell weakener, which makes 20% better incubator or hen hatches and chicks that are easier to raise.

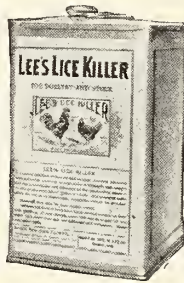
All of these are on sale by dealers at most towns and in every state in the United States and in Canada. If not at your town, write for agency prices.

Poultry Library FREE

MY POULTRY LIBRARY of five books describes all of the Lee products and tells you how to handle chickens in the easiest, most effective and profitable way; how to diagnose instantly their troubles before they really show sick; how to see and understand the watery eye, the dirty beak, discolored comb, condition of the droppings, etc. Geo. Engelson of Brooklyn, N. Y., says: "The books are worth \$25.00." Mrs. Frank Gable, Havre, Mont., says: "The best I ever saw, because so much real information and so few ads." Jackson Bennett, Libertyville, Ill., says: "Been in the poultry game for years, but there are profit pointers in your books I never dreamed of."

This Poultry Library (Five Books) is free at dealers or mailed by us for 5c stamps. Don't put it off, but write right now.

GEO. H. LEE CO., 302 Lee Building, OMAHA, NEB.



and no one can make a mistake who undertakes their breeding when for eggs or high-class exhibition specimen. Unfortunately, since war was declared and feed went soaring, a good many breeders have got "cold feet," and either cut down to the very lowest number or quit altogether. This applies to other varieties as well as the Leghorns. I cannot help but think that after the clouds of war have rolled away the fellow who stuck by his favorite breed will find himself in on the ground floor and will reap a just reward. My advice is, cull unmercifully, breed from only the cream of the flock, raise fewer but better birds, and if in doubt as to a breed, choose Single Comb Brown Leghorns for both pleasure and profit.

W. G. WARNOCK,

Geneseo, Ill.

The Black Breasted Red Game Bantam.

IT IS my desire, as a breeder of Black Breasted Red Game Bantams, to say just a few words to the novice or anyone who may contemplate the breeding of these little beauties. Being in one sense of the word a novice myself, I would not direct this article to the old-timer, so to speak. I will, therefore, give my reasons why the Black Red appeals to me above all others.

Living, as I did, in closely inhabited quarters, space would not permit my raising a larger variety. I therefore purchased a trio of Game Bantams. The first year I raised twelve youngsters and exhibited a cockerel and pullet at our annual fair. On this entry I won first cockerel and third pullet and championship for best male. This win as a starter gave me all the courage necessary and I decided to come back stronger another year.

I found these little birds very easy to raise, stand confinement well, and require but little grain. I use small coops four by four, two feet high in back and four feet high in front. I have small wire runs eight feet long, the same width as a house. By changing the ground every two weeks it does not have a chance to get contaminated. This plan works out very nicely and the birds thrive exceedingly well. I found the Games very prolific as layers.

The hens very seldom become broody and I dare say that in all the years I have been breeding Games I haven't used more than half a dozen hens for hatching purposes. I have better success with large hens. In this way I can put twenty to twenty-two eggs under one hen and thereby get a good clutch off at once. I usually try to set four or five large hens at once, getting all my chicks off at one time. Being all of the same age, I find they grow much better and get along without fighting.

Great care must be taken when the chicks are small when one is using big hens, as they are very liable to step on them. The first two weeks feed consists of yolk of egg and small crumbs. Many advocate the no-water plan for Bantams, but I have always had good success by keeping small tins of water in front of them. I occasionally give them a little milk. After the first few weeks of eggs and bread crumbs I start them on a good commercial scratch feed; this they quickly learn to pick up and my experience has taught me that hard

You Needn't Board Our Leghorns Free All Winter—THEY LAY EGGS



"The Proof of the Pudding is in the Eating"

Best day's laying in WINTER by 400 pullets, 324 eggs; another lot of 200 hens paid \$1,124 profit. They will lay as well for you. TESTED 10 YEARS. If you want the WINTER EGG AND BIG PROFIT, buy of the breeder that can give the unquestionable PROOF. 20,000 chix, selected GUARANTEED FERTILE hatching eggs and stock at a LET-LIVE price. Get my big free catalog. Write today **OSEE C. FRANTZ FARMS, ROCKY FORD, COLORADO**

Harnly's Quality White Orpingtons

Order your eggs and chicks from the only breeder who ever won grand championship White Orpington male and championship White Orpington male honors two years in succession. Buy where the many correctly mated pens of healthy, vigorous, blooded birds are high egg producers. Where the chicks are correctly hatched, are full of vigor and stamina, maturing quickly into egg and meat producers equal to the keenest show room competition.

EGGS (Fertility guaranteed)

BABY CHICKS

\$3, \$5 and \$15 for 15 \$6, \$9 and \$25 for 30 \$8, \$12 and \$10 for 20 \$14, \$20 and \$70 for 40

Mating list, with stock prices and other material, free.

Mary K. Harnly - 2301 Elisha Ave. - Zion City, Ill.

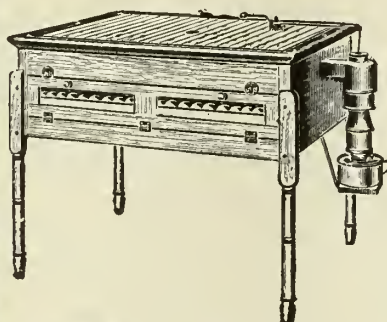
grains can't be beaten for raising Games. As our present Standard calls for hard, bony birds, the results cannot be obtained by using soft wet mash. A little attention the first few weeks and all outdoors can't kill them.

To make show birds of Games they must be handled a great deal. I usually start by feeding the birds from my hand; this they quickly learn to do and by so doing much is accomplished toward getting the confidence of the bird. I have a set of exhibition coops which I use for training purposes. Each bird is put in these coops a week at a time and taught to stand erect by the use of a judge's stick. This work requires a great deal of patience on the part of the trainer, who should never become exasperated, for by so doing much of his labor is lost. When the birds are about four months old, the male birds are dubbed, which means cutting off the combs. In doing this I usually get my younger brother to help me, he holding the bird while I do the cutting. The birds heal up quickly and are soon ready for the fall fairs and winter shows. I am a firm believer in poultry shows and show my birds at all the shows in this section. I usually make it a point to attend all shows where I exhibit and see to it that birds have the proper attention.

A few years have passed since I first commenced raising Bantams; I have moved to much larger quarters and taken up the raising of larger varieties, but I shall always find room for my string of Game Bantams and hope to see a steady growth of the Bantam business.

JAMES K. WYLIE.

What Do You Want an Incubator to do for You?



You want a strong healthy chick from every fertile egg.

You want an incubator that is simple and easy to operate, one that is well built so that it will last for years and one that requires the smallest amount of oil to heat it.

The Ideal is just such an Incubator

An incubator that is self-regulating, self-ventilating, heated with a hot water copper tubular tank, the best safety metal lamp; tested thermometer; egg tester; thermometer holder; strong egg trays; deep chick nursery, and complete operating instructions.

Incubators made of best seasoned lumber, double constructions, double glass door, high legs and well finished.

OUR GOVERNMENT — UNCLE SAM—calls upon you and all of us, to

raise more poultry and more eggs to help reduce the food shortage—to help feed our boys—your boys—so that they will be well fed—because food will win.

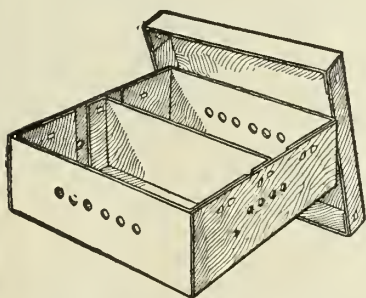
Will you help Uncle Sam win the war? Will you help yourself? Just think of the big profits you can make raising poultry—think of the high prices paid now for poultry and eggs—and poultry and eggs are worth these high prices, no matter if you sell on the market or use them on your own table.

OUR PRICES ARE PATRIOTIC

To show you that we are patriotic; to show you that we are willing to do our share to help win the war, we have cut our prices and our profits to the last penny. Write for special circular and patriotic prices; write today and get full information.

J. W. MILLER CO., 710 Race Street, ROCKFORD, ILLINOIS

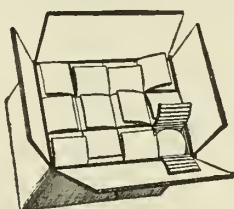
Stop Losing Good Profits Use Andrews Poultry Appliances



Andrews Baby Chick Carrier

It's absolutely unnecessary for you to sacrifice chicks and profits in shipping. Here's the most sensible chick carrier ever invented. Your chicks reach their destination the same as they left you. Built in compartments and thoroughly ventilated. Shipped flat. Put together in a twinkling with brass hands. Top and bottom all one piece. Ship all your chicks this Spring in my Baby Chick Carriers. Prices as follows on dozen lots. No order accepted on less than one dozen carriers of a size.

25 size - \$1.20 50 size - \$1.70
100 size - \$2.90



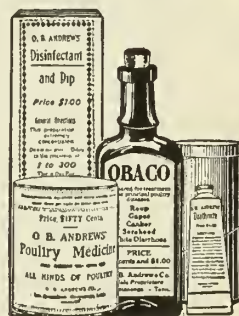
New Andrews Egg Carriers

Some egg carrier. I've a stack of letters from these poultrymen who label my egg carrier the best that ever hit the market.

Every egg has four corrugated cushions protecting it on the ends and three on the sides. Box reaches you flat—quickly assembled. Made from tough fibre board. Costs less than most egg carriers. Give them a tryout and you'll sign them up for permanent use. Can be used over and over. The ultimate in economy and safety. Here's how they are priced on dozen lots. No order accepted for less than one dozen carriers of a size.

Commercial
1 dozen size, \$.60 4 dozen size, \$1.55
2 dozen size, .95 5 dozen size, 1.85
3 dozen size, 1.25 10 dozen size, 3.60

Hatching
15 egg size, \$1.10 50 egg size, \$2.60
30 egg size, 1.95 100 egg size, 4.90



Andrews Poultry Remedies

Andrews' Disinfectant and Dip, Andrews' Deathmite, Andrews' Poultry Medicine, and Andrews' Obaco—absolutely the most reliable remedies on the market. Mr. Andrews says: "I would prefer to part with all the equipment at Premier Farm here giving up Obaco, the Miracle Medicine. It's worth its weight in gold. It has saved the lives of my finest birds. No poultryman should ever be without it."

ORDER DIRECT FROM ME AND SAVE MONEY

Let me send you information on my different appliances. I sell and make everything a poultryman needs—shipping coops, trap-nests, vermin-proof roosts and brood coops, etc. Let me prove it. I prepay freight, not express or parcel post, on shipments of 100 pounds or \$10.00 in value. If you want goods shipped parcel post please include postage. Drop me a card today.

THE O. B. ANDREWS COMPANY, Box A, Chattanooga, Tenn.



The International Baby Chick Assn.

THE International Baby Chick Association held an important meeting at Madison Square Garden during the New York show. President Herbert H.

Knapp reported that the probable output of baby chicks for 1918 would exceed twenty million. He looks for an excellent season and says that the demand is good, advance orders being booked rapidly.

Members were decidedly optimistic concerning the baby chick business and many reported that they had made satisfactory arrangements to secure a sufficient supply of hatching eggs from good Standardbred stock to take care of the needs of their customers. Transportation, fuel and feed problems were discussed and a committee appointed to take special charge of the interests of the hatcheries and their customers for the duration of the war. A substantial appropriation for conducting the work was made and filled by vote and voluntary subscription of members.

The following resolutions were unanimously adopted:

To the United States Food Administration, The Director General of Railroads, The Management of all Express Companies and Transportation Lines:

The International Baby Chick Association, in convention at Madison Square Garden, New York City, December 31, 1917, representing chick hatcheries having a seasonal output of twenty million baby chicks, submits the following resolution and petition asking for preferred shipment and speedy delivery of all shipments of baby chicks:

Whereas, The United States Department of Agriculture is conducting a vigorous campaign for greatly increased production of poultry and eggs during 1918, to give a greater national food supply and to conserve red meat for use of our fighting forces and our allies, and,

Whereas, Our national supply of breeding fowls and pullets is at least 50 percent below normal, which means that there will be a great shortage of breeding stock and eggs for hatching, and,

Whereas, The quickest and most effective way to secure increased production of poultry — increased meat supply and more pullets to produce eggs — is thru strong and hardy baby chicks, hatched, sold and shipped in large numbers by experienced men skilled in the art of incubation, be it

Resolved, That we, the International Baby Chick Association, representing baby chick hatcheries, having secured a seasonal output approximating twenty million baby chicks for 1918, do hereby petition and urge that all express and transportation companies and their agents be advised and instructed to place all shipments of baby chicks and eggs for hatching upon the preferred shipment list and to rush all such shipments thru to destination by the shortest route, observing all possible care to insure safe as well as speedy delivery.

With the hearty co-operation of the express and transportation companies in the prompt and efficient handling of shipments of baby chicks and eggs for hatching, we believe it will be possible, during the coming 1918 season, to secure the greatly increased production of both poultry and eggs which are so vitally necessary to the national food supply.

Respectfully submitted,

International Baby Chick Association,
By Herbert H. Knapp, President.

President Knapp made the following report on the fuel shortage as affecting operators of hatcheries and coal-burning brooding equipment:

As the season for hatching and rearing chicks drew near, poultrymen thruout the country became alarmed on account of the coal shortage, as modern equipment consists largely of mammoth incubators and brooder stoves which require anthracite coal as fuel. Intercession by the Baby Chick Association brought the following encouraging reply from the United States Fuel Administration:

"Herbert H. Knapp,
President International Baby Chick Association,
Shelby, Ohio.

Dear Sir: Referring to your letter of December 14, the Administration begs to advise you that if it is notified of requirements of chestnut coal in connection where such fuel is needed for operation of incubators and brooders in connection with the hatching and raising of chickens, we will arrange to have such coal promptly supplied to the dealer in the community where it is needed.

Arrangements should be made, however, to notify the Administration as early as possible of needs which may actually exist.

Very truly yours,
U. S. Fuel Administration.
Washington, D. C."

Keeler's Vigorous White Wyandottes

= The Aristocrat of the White Wyandotte World =
WINNERS OF 5 FIRSTS, CHICAGO

Special for February and March.—500 large, vigorous, fully developed cockerels bred from my 1st, 2nd and 4th cocks; 1st, 2nd, 3rd and 4th cockerels, Chicago. Price, \$5.00, \$8.00, \$10.00, \$15.00 and \$25.00 each. Exceptionally fine specimens, \$35.00 and \$50.00 each. Also Cocks, Trios and Pens of



THE WORLD'S GREATEST STRAIN

Before you buy a single White Wyandotte send for my new, large, 64-page, instructive catalog and mating list giving the full history of my birds. A winning and breeding record of 24 years will convince you that I not only have birds that will win in any show-room but also fill the egg basket, some of my birds laying as high as 273 eggs a year. My prize-winning females are selected from among these layers. Here is the proof:

Box 18, Luselund, Sask., Canada, January 3, 1918.
Chas. V. Keeler, Esq.,
Winamac, Ind.

Dear Sir—I trust you will mail me a 1918 mating list. Am figuring on placing another order for eggs with you this spring. The birds I got from the eggs last spring are certainly dandies. Have had 15 of your pullets in a Woods' open-front (single wall) house all winter. Got 270 eggs in December from them. Two days of last month 50 degrees below zero, or average temperature for the month 28 degrees below zero. A steady cold month, with three blizzards. I am going to buy your eggs again this year. Wishing you every success during the coming year.
Yours truly,
(Signed) E. T. Hughes.

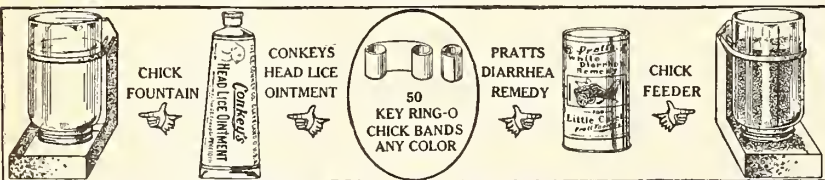
Eggs Eggs Eggs Eggs Eggs

The pens that will produce the 1918-19 winners and layers mated December 15th. I am in a position to furnish you eggs from the sixteen best matings in America. The best birds reared during the past three years are mated in these pens. My 1918 catalog and mating list of America's FINEST WHITE WYANDOTTES ready now. Send for YOUR COPY today. Eggs, \$5.00 per 15; \$9.00 per 30; \$14.00 per 50; \$25.00 per 100. A limited number will be spared from special matings at \$10.00 and \$15.00 per 15. State wants plainly and address.

CHAS. V. KEELER

R. F. D. 11, WINAMAC, IND.

The 1918 CHICK-ECONOMY COMBINATION



- 1 Chick Feeder (without jar) 15c
- 1 Chick Fountain (without jar) 15c
- Head Lice Ointment 15c
- White Diarrhea Remedy 30c
- 50 New Coil Leg Bands 50c
- 50 Key-Ring-O Bands 50c
- Value \$1.75
- Our Advertising Offer 1.22
- You save 30% or 53c

Every year we get out a Key-Ring-O Combination to advertise and introduce this celebrated leg band. This year's offer is one for safety and economy. You must raise your chicks this year safely and economically. For safety we include a regular 15c tube of Conkey's Head Lice Ointment and a regular 30c package of Pratt's White Diarrhea Remedy. Then you get a Drinking Fountain and a Chick Feeder—the latest style out, and a good one. Then we include 50 New Coil Chick Bands that will last for years and enable you to mark each chick easily and quickly. And then in addition to the above you get a coupon that we will exchange (after you know just what colors and size you want) for 50 of the celebrated Key-Ring-O Leg Bands any size or color.

Surely you will agree that this year's KEY-RING-O COMBINATION gives you SAFETY and ECONOMY when we tell you that the entire outfit will be mailed postage paid for only \$1.22 and if you can duplicate this combination elsewhere for \$1.75, you may return it to us and we will immediately return your money, together with all postage you have paid. Isn't that fair? This is our method of advertising and you get the standard line of goods at our expense. However, we reserve the right to return money when our supply is sold out. Last year we returned 2527 orders that came too late.

C. H. GORDINIER, Dept. J, TROY, N. Y.

America's Best Wyandottes

SILVER GOLDEN WHITE

Winners of over 400 premiums at Madison Square Garden, New York, and Chicago. Six firsts at the Greater Chicago Show last month. They won thousands of premiums at all the leading shows for our customers. We have 500 head of very choice exhibition and breeding birds at bargain prices, line-bred for 32 years. They have the size, shape and color. Can fit you out with almost anything you may want in this line. Also Golden Sebrights. Large illustrated circular.

IRA C. KELLER, Brookside Farm - Box 75, Prospect, Ohio

The Poultry Situation in Canada.

THE Ottawa (Ontario) Poultry Association held its regular meeting on Thursday, December 20, 1917, in the Y. M. C. A. Hall. This meeting was the first of a series of monthly lectures to be held in conjunction with the Y. M. C. A. The lecturer for the evening was Lewis N. Clark, of Port Hope, Ontario.

Mr. Clark, in opening his address, stated he would like to change the subject from "Producing Eggs in War-Time" to the query, "Can We Produce Eggs in War-Time?" The answer he found was that eggs could be produced, but only under difficulties, owing to the high prices of feed. But it was necessary that poultrymen everywhere should produce, for if production stopped it would mean that not only would the people of Canada suffer, but there would be no eggs or poultry to be sent overseas and it would be difficult to revive the industry after the war.

It would be necessary, however, to introduce the same efficiency into the poultry business, as the present war had rendered necessary in all other lines and this would be done by adopting methods which would give a higher production of eggs per hen per year.

At the present time it costs 26 cents a month to feed a hen, but even at this high cost Mr. Clark figured that a 14 or 16 percent production would meet expenses with eggs selling at 75 cents per dozen, and as any good poultryman should be able to produce considerably more than this, there would still be a

reasonable profit to the producer. One point on which Mr. Clark laid emphasis was that, despite the high price of feed, the hen's rations should not be cut down or the quality of the feed lessened, as this would result in a falling off in the egg supply.

While he did not share the gloomy reports which were prevalent in the United States, that unless poultrymen got as high as \$1.25 per dozen for eggs they would have to go out of business, Mr. Clark admitted that the feed situation was a serious one, particularly in regard to wheat, even the poorer grades of which were being milled at the present time.

In reply to a question, Mr. Clark did not place much value on barley as a substitute for wheat, tho it might be useful when used with wheat. To meet to some extent the deficiency in wheat, Mr. Clark is feeding more gluten meal, a by-product of the corn starch factories. Mr. Clark urged poultrymen to form a central committee which should stand behind the poultry division of the live stock branch in its efforts to see that some action was taken to supply poultrymen with feed. In conclusion, he gave an interesting account of an electric light plant he had put in on his farm and the increased egg production he had obtained by the use of electric lights in the laying pens. With the lights he had been able to get yearling hens to lay considerably in advance of the usual time, and the effect generally was very gratifying. In one instance, where he discontinued the lights for a time, a house of some six hundred pul-

lets dropped within a week from 300 eggs per day down to six or seven.

At the close of his address Mr. Clark was bombarded with a series of questions on poultry topics, all of which he was quick to answer.

Dr. Barnes, the president of the association, stated at the conclusion of the meeting that exhibitors at the Winter Poultry Show and others would be asked to donate fowls, which would be auctioned and the proceeds turned over to Dr. Robertson to be used to help Belgian farmers to restock after the war.

WALTER A. RUSH,
Ottawa, Ont., Can.



The "Best Yet"
Aluminum Leg Band

cannot come off. Five sizes, pigeon to turkey. State breed. 12, 15c; 25, 25c; 50, 40c; 100, 75c. Celluloid Leg Bands—Red, Green, Amber, Pink, Black, White, Yellow, Light Blue, Dark Blue. Pigeon and Baby Chick sizes—12, 10c; 25, 20c; 50, 35c; 100, 65c. Poultry sizes, 12, 15c; 25, 30c; 50, 50c; 100, 80c. Circular free.

Aluminum Marker Works, Dept. J, Beaver Falls, Pa.

SPECIAL SALE

Rose and S. C. White Leghorns

Cocks and Cockerels

Yearling S. C. Leghorn Hens

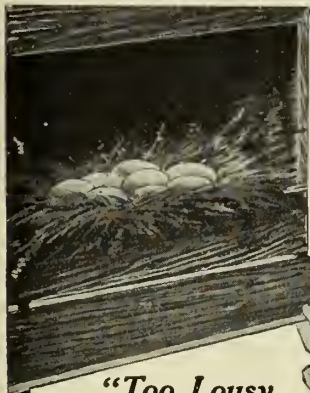
White Rocks Yearling Hens and Cocks

—BARGAINS—

Mrs. H. C. ROGERS, R. 6, Box 3, Oshkosh, Wis.

Partridge Rock Eggs

\$7.50 for 100, \$4.00 for 50. Baby chicks double price of eggs. Place orders early. Bargains in breeders in February. No Sunday business. MEADOWLAWN FARM Dept. C.D. SAND CREEK, MICH.



"Too Lousy For Me"



YOU CAN'T BLAME THE HEN

when she refuses to sit on a lousy nest, with lice torturing her and sucking her life blood —she must get out or die. No matter how clean the nest, it is absolutely essential that you dust the sitter and make sure that she is free from lice. Many lice remedies also kill the hen, spoil the eggs, and injure the baby chicks, but you are safe when you use

THE OLD RELIABLE

Lambert's Death to Lice

30 YEARS THE UNIVERSAL FAVORITE

Successful breeders everywhere will tell you that there is nothing equal to Lambert's for sitting hens. Its use will insure a good hatch, (if eggs are hatchable) and start the youngsters clean and comfortable.

Sold by Poultry Supply Dealers and Druggists everywhere at 100 oz. \$1.00; 48 oz. 50c; 15 oz. 25c. Large trial sample of Powder or Head-Lice Ointment, with booklet by D. J. Lambert, 10c. Send today.

THE KLEIN-LAMBERT CO., Mfrs., 601 Traders Bldg., Chicago



Horticulture for Poultry Keepers

Conducted by Thos. F. Rigg, Iowa Falls, Iowa.

CLAY H. STARK, writing from "Somewhere in France" to his father, E. W. Stark, tells of the condition of the orchards over there, and the need of greater apple production in this country. He says:

I am anxious to tell you all about the fruit-growing conditions here in Europe, because I know how it will affect all of those who are growing fruit over in America. I can't begin to express in words the utter devastation of the orchards over here. You know Europe used to grow very fine fruit and a great deal of it, but since the war began, thousands of thousands of acres of fine orchards have been utterly destroyed. An immense number of orchards have been destroyed and those which have not been destroyed have been so neglected that they have been practically ruined. You know what this means to American farmers and fruit growers. It means that they have got to supply Europe with fruit for years and years to come. American fruit has a great reputation throughout Europe and they will pay almost any price for it, but the big question with them is to get enough fruit for their needs. If the war should stop tomorrow, American fruit would be in big demand for twenty or thirty years to come, and even

longer. It will take fully that time to even begin to replace the orchards that have been destroyed over here. Tell everybody that America must grow many times more fruit than is produced now, not only for use of the increasing population of America, but also for Europe, South America and the entire world.

My advice to all farmers and other land owners who have land suitable to the production of apples is to plant apple trees. Never before has there been such a favorable time for the establishment of apple orchards. The demand even now in this country for such quality apples as Northern Spy, Delicious and McIntosh Red is far greater than the supply. In fact, there has never been a time, even when the market was glutted with the poorer sorts, that properly grown, graded and packed apples of the choice varieties did not bring a very profitable price. Now is the accepted time to put out an apple orchard.

According to a report made by the Iowa Agricultural College, the orchard lands of Iowa gave a net return of \$107.51 per acre for a period covering ten years. The general average of all orchards investigated (within the state) showed the Iowa orchards were yielding year after year returns equal to 6 percent on a valuation of \$1,186.50 per acre. E. P. Spencer of Fremont sold his crop of apples from 80 acres so that he cleared \$20,000 in 1917. This is a pretty good showing for apple lands in a state where few orchards are cared for as they should be.

* * *

Again allow me to urge you to place your order for garden seeds and fertilizers early. Do it now!

* * *

I am an interested reader of the American Poultry Journal and enjoy your horticultural talks. Will you please give me a little information about Florida thru your department in the Journal, as I understand you spend your winters there?

I am 43 years old and own a 50-acre farm 22 miles from Rochester, N. Y., and am working to make poultry my main line. My wife has been an invalid for over five years with nervous prostration and unable to do anything. Have been advised by several to take her to St. Petersburg, Florida, to see if the climate would not benefit her. What do you know about that part of the state? Is there any good farm land in that section and could it be bought reasonably? Would it be a good place to go into the poultry business? I had thought of renting my farm and taking my wife and her mother there for six months or a year, to see if it made any improvement in my wife's health. If so, I could then sell my farm and make Florida our home as I have no love for our cold winter months. Do you think I could get something to do there to help meet expenses? Have had quite a bit of experience besides farming.

Roy H. Milliman.

There is some good land in the vicinity of St. Petersburg. This land is not as good as the land east and north-east of that city. In the highlands (so-called) in the vicinity of Dade City there are many fine farms, and here is to be found some of the best land in the state. I advise you to investigate this. However, it seems to me you could do better by going farther south in the state, so far as climate is concerned. But there are no better lands in all Florida than the central highlands. For general farming these lands are certainly the best in the state. Of course, the fruit raiser there takes more chances on being knocked out of a crop by frost than he would if he were operating farther south in the state.

I want to urge you as strongly as I know how to give up the idea of going into poultry in a commercial way in Florida. Do not allow yourself to be misled by the stories of poultry profits which you have evidently been reading. You are wise in your resolve not to sell your New York farm. Go to Florida and look over the situation. Do not let it be known that you are thinking of buying land. If you do, the land agents and sharks will so pester you that you will soon be a nervous wreck. Just keep your eyes and ears open and accept only proved facts.

I am sure you can get employment of some kind during the winter. Good land in the highlands can be bought from \$35 to \$50 per acre. This for unimproved land. On your way to Florida stop off and investigate the farm and fruit lands in the Piedmont Valley of Virginia. God-blessed, sun-kissed Virginia is a glorious place in which to live, to prosper and be well and happy.

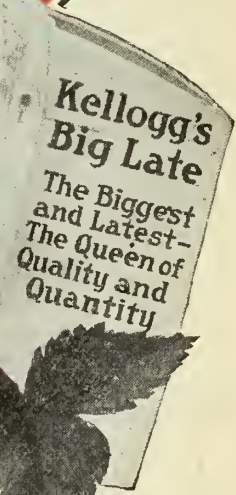
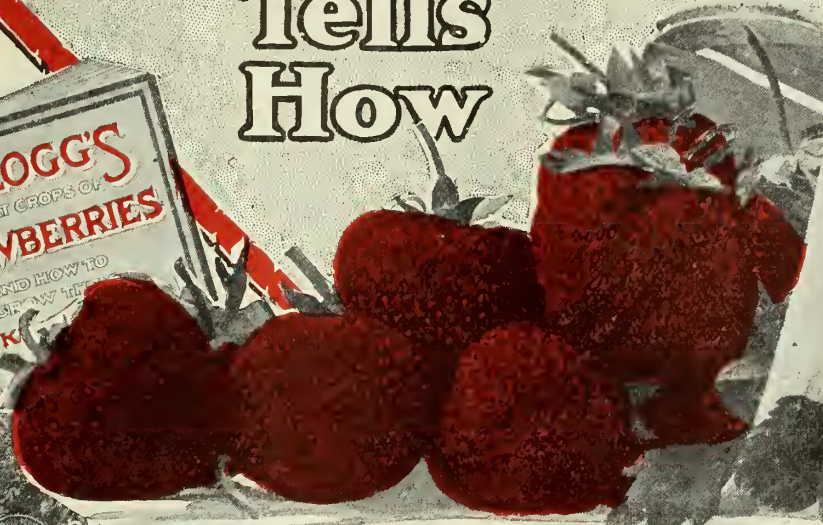


U. R. FISHEL, HOPE, IND.

First prize White Plymouth Rock cockerel, Chicago Coliseum Show, December, 1917. Owned by U. R. Fishel, Box A, Hope, Ind.

WRITE FOR OUR BIG NEW FREE STRAWBERRY BOOK

Tells How



You Can Make \$500 to \$1200 per Acre Growing STRAWBERRIES THE "KELLOGG WAY"

JUST write your name and address on the coupon below, or a postal card, and we will send you FREE and POSTPAID, our handsome, new, 64-page book "Great Crops of Strawberries and How to Grow Them." This big book has been written by a man who has made strawberries his life study. It gives complete information on preparing the soil, setting the plants and caring for the strawberries so that they will bring you big yields and quick profits right from the start. It not only tells how "Kellogg Pedigree Plants" grown the "Kellogg Way" will make more money for you per acre than any crop you can grow, but it also tells the actual experiences of others and how they have made \$500 to \$1200 and more per acre from Kellogg Pedigree Plants. Here are a few examples:

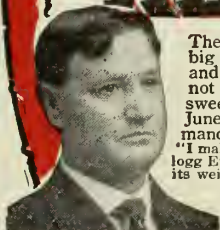
- J. A. Johansen of Neb., made \$670 from 3/4 of an acre.
- G. M. Hawley of Cal., sold \$3000 worth of berries from 2 acres.
- Henry Clute of New York, realized \$888.17 from 1 acre.
- Z. Chandler of Oregon, made \$4390.50 in 5 years from less than 1 acre of Kellogg Strawberries.

This valuable book also tells how to make one acre of strawberries do the work of two—how to grow two big crops of berries from the same land the same year. It pictures and fully describes the leading standard and everbearing varieties and tells how to grow, pick, pack, ship and market the berries. It costs you nothing. Just fill out and mail coupon below—it will be sent to you Free and Postpaid. It also tells all about the wonderful

KELLOGG'S



EVERBEARING STRAWBERRIES



KELLOGG STRAWBERRIES
Paid for My \$4000 Home

Mr. E. D. Andrews of Lansing, Mich., whose picture is shown above, writes this letter:
Gentlemen: A few years ago I started growing Kellogg strawberries with no experience and with a very small capital. In a few years the profits from only two acres of Kellogg Pedigree Plants had fully paid for my \$4000 home.
Yours very truly,
E. D. ANDREWS.
Let Strawberries Buy Your Home

These big and quick money-makers produce two big crops each year. A big profit in the Spring and a bigger profit in the Fall. Heavy frost does not affect their fruiting. Just think of picking big, sweet, luscious berries fresh from the vines from June until snow flies. The Fall berries are in great demand at high prices. Read what these customers say:
"I make \$1200 to \$1500 per acre every year from Kellogg Everbearing Strawberries. Your book has been worth its weight in gold to me." W. L. FORBES, Vermont.

"I picked an average of two quarts from each Kellogg Everbearing the first season and sold the berries at 30c per quart."
MRS. DORA SNOW, Neb.

W. R. Randall, of Illinois, made at the rate of \$1900 per acre.
O. J. Osborne, Utah, made \$33.70 profit and also supplied his family with strawberries from 50 Kellogg Everbearers.

You can make these same big profits. Get our Free Book and learn how.

Kellogg Strawberry Gardens

Why pay big prices for ordinary berries? Grow Kellogg's delicious strawberries and pick them fresh from the vines from June to November, and have canned berries, preserves and jam throughout the winter. A Kellogg Strawberry Garden will do more to help you cut the high cost of living than anything else you can grow. Our new book pictures and fully describes the Kellogg Gardens—we have a garden exactly suited to your needs and climate. It also explains how to grow strawberries and vegetables on the same piece of ground at the same time. You owe it to your family and yourself to write for this book today and learn how to get your own strawberries free and make a big cash profit besides.

30 Strawberry Recipes

for the making and preserving of delicious strawberry dainties for both summer and winter use are given in this book. Every woman will be interested in these recipes which contain many new novel strawberry dishes.

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Every year we offer Big Cash Prizes for the best strawberry gardens grown by boys and girls. Our free book tells the boys and girls how to win one of these cash prizes and make a big cash profit besides.

JUST FILL OUT THE COUPON BELOW

Now is the time to write for this handsomely illustrated strawberry book and learn how easy, delightful and exceedingly profitable it is to grow strawberries the Kellogg Way. Write your name and address in the coupon and we will send you your copy Free and Postpaid by return mail.

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R. M. KELLOGG CO. Box #25 Three Rivers, Mich. Please send me your big new strawberry book which tells how to grow strawberries and how to make \$500 to \$1200 per acre.

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Does a Clean Job—Saves a Lot of Work

That's the story of "SCALECIDE," the premier dormant spray. It will absolutely clean up San Jose scale—will also control apple canker, collar rot, bud moth, case bearer, aphids, pear psylla, etc. No other spray will do all this. "SCALECIDE" can be put on in one-half the usual time. A great saving in labor and you get through on time. Pleasant to handle. Sold on Money Back Basis.

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Strawberries (The Wonderful Everbearing and All Other Fruit Plants)



We are headquarters for all kinds of Strawberry Plants, including the Fall or Everbearing, which fruit in August, September, October and November as well as in June and July. Also Raspberry, Blackberry, Gooseberry, Elderberry, Currant and Grape Plants, Fruit Trees, Roses, Ornamental Trees, Shrubs, Vines, Seed Potatoes, Vegetable Plants, Figs for Hanging, Grates, Baskets, etc. Large Stock, Low Prices. 35 years' experience. Catalogue free.

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Delicious Apple



True Delicious, trees 15c each 1 year from graft or bud. Large fruit, beautiful dark red, quality unsurpassed. Sweet, slightly touched with acid. Comes out of storage in April in perfect condition.

Campbell's Early Grape—new variety, vigorous, very hardy, very early and an abundant bearer. Concord Grape, 2 yr. old, No. 1, \$5.50 per 100. 1 yr. No. 1, \$4 per 100. Garden seeds. Catalogue free. SONDEREGGER NURSERIES AND SEED HOUSE 72 Court Street, BEATRICE, NEB.

Trees and Seeds that Grow

Everything needed to beautify your home and garden, direct from Nursery at one price, 10 cents. ONE MILLION FRUIT TREES AND SHRUBS to be sold under guarantee of first-class stock, true to name, free from disease, or money refunded without question. We can give highest bank references. Illustrated catalogue listing our full variety, and nothing over 10 cents. FREE.

POMONA NURSERIES 133 Granger Ave., Dansville, N. Y.

Are you eating baked apples for breakfast? If not, you are missing one of the joys of living.

* * *

I have been a reader of American Poultry Journal for a good many years and find your notes very interesting. Can you please give me some information in regard to the Royal Purple raspberry? Do you think it will do well in this locality? Do the old vines take root and form new plants the same as the black raspberry or black cap? Will you please send the name and address of some reliable nursery from which I can procure the Royal Purple raspberry plants?
Iowa. L. H. DeFratesc.

The Royal Purple Raspberry will certainly do well for you and is suited to your climatic conditions. L. J. Farmer, Box 836, Pulaski, N. Y., can supply you with these plants. Renewal is made from the root, the same as with the black cap raspberry. Of course, canes can be laid down in either spring or fall and new plants thus secured.

* * *

In answer to P. A. Hornsby, Indiana: I do not think it would be wise for you to make a large planting of pear trees. You will find, upon looking up the facts, that the pear blight is too prevalent in orchards of pears in your state to make their commercial planting advisable. Why do you not plant an apple orchard? There is sure profit in an orchard of Delicious, Stayman Winesap and such varieties in your state. According to your letter you have an ideal orchard site, both in exposure of land and character of soil.

* * *

Judge Adam Thompson, of Missouri, who used to produce Indian Games (now Cornish) so good that he could not keep them, has just sold the last of his big crop of apples, and at a figure which is most pleasing. Mr. Thompson has one of the best and most profitable orchards in Missouri. He is adding to his acreage each year.

* * *

Could you advise me what variety of currants and gooseberries to plant on my place for commercial purposes? The land is rather sandy. Good clover can be grown on the land. If possible, give me the address of a reliable nursery where the varieties you advise may be purchased. Is the Klondike strawberry a good commercial variety? Would like your advice as to a reliable book on horticulture, also a magazine.
Illinois. Herbert E. Hess.

In currants, plant Red Cross, Diploma and Fay. The Oregon Champion is worth all other gooseberries put together. The American Fruit Grower, Chicago, is a good fruit paper. The Nursery Book you will find helpful. You can get it of any bookseller.

* * *

Away back in 1804 a tree bearing beautiful yellow apples was found growing wild in a piece of woodland in West Virginia. The apple was so beautiful and of such high quality that it soon became famous in its home circle. Then New Orleans traders found it out and bought up all of these apples which they could find and took them home. A Mr. Grimes, on whose land the seedling was found, top-worked a number of trees and in the course of a few years nurserymen were top-working trees to this new apple. Since that day this apple, now known as Grimes' Golden, has been considered the best of all yellow apples and has commanded a high price in all markets. West Virginia, it seems, was not sat-

SMYTH'S 70 INCUBATOR AND NURSERY. ALL STEEL BODY ON 30 \$ DAYS 3-98



FREE TRIAL HOLDS FULL 70 EGGS

At our special \$9.99 price we will sell 800 Smyth's all steel body egg incubators. Guaranteed to hatch as large a per cent of strong, healthy chicks as any incubator made, regardless of name, make or price. Made with all steel body, triple walls, 1918 improved disc regulator, standard thermometer, etc.

through glass damper, best safety metal lamp, heat distributing drum around outer edges, water jacketed hot flue and automatic heat regulator ensuring even temperature and uniformity of every part of egg chamber, and even heat to eggs all the time. Equipped with special egg tray slopes so small end of egg points down and slides when hatched will drop from shell into the roomy nursery below. Full directions with incubator. **SEND \$1.00** send you this high-grade, latest improved Smyth's all steel body 70 egg by express, subject to examination. Pay balance \$2.98 and express charges to agent after you find the incubator perfectly satisfactory and **TRY IT 30 DAYS** if at the end of our risk the greatest incubator and if you haven't in the world do not then take it home and as good a hatcher as you ever saw or heard of, regardless of price or make, or if for any reason you are dissatisfied, return it on our expense and we will refund you \$3.98 and freight. **PARCEL POST** charges. If you want incubator sent by parcel post, shipping weight \$2.98 and enough money extra to pay the parcel post postage and we'll send on same liberal trial offer as above. Shipping weight 13 lbs. We make very long process on order and in stock, coolers and poultry supplies of all kinds in our big free incubator price list sent you free upon request. Order incubator or price list today. **JOHN M. SMYTH MOSE CO.,** 703-709 Wash. St., Ington Blvd., CHICAGO

Everbearing Strawberry

New fall-bearing one. Smooth and good size and color. Plants strong. \$2 per 100. **Sonderegger's Earliest Blackberry** will please you. **Mersereau** stands 20 below zero, big yielder. **Beebe's Early Prolific Tomato**—2 weeks earlier than any other. Bears until frost. Apple trees \$10 for 10, 1 year from graft or bud. Big Catalogue Vegetable and Flower Seeds sent free. **Sonderegger Nurseries & Seed House** 72 Court Street BEATRICE, NEB.



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I will give a lot of new sorts free with every order I fill. Buy and test. Return if not O. K.—money refunded. **Big Catalog FREE** Over 700 illustrations of vegetables and flowers. Send yours and your neighbors' addresses. **R. H. SHUMWAY, Rockford, Ill.**

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GET THIS BOOK FREE
Tells how to cut living cost through productive gardens. Why our Pure, Tested Farm, Garden and Flower Seed grows the biggest crops—the finest flowers. A beautiful 112 page book in color; Describes new 1918 varietal vegetables and flowers. Plans some of the best treated; beautiful home grounds, flower and vegetable gardens, landscaping, shrubbery, orchards, farms. Vegetable dictionary on gardening. Flower lover's delight! Horticulturist's book. Botanist's manual. Plan your 1918 garden from this valuable book. **Galley Bros. & Co., Dept. 310, Waterin, Iowa**

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YOUR WAR GARDEN in 1918 one grand success if you follow the expert planning directions and the two practical garden diagrams in this our brand new book-let. Send 10c for it to the DE LA MAR CO. 442-B W. 37th St. New York. Catalog "Countryside Books" Free.

ished in having done her "bit" in the way of giving the world the magnificent Grimes Golden apple. She now comes forward and hands us another gem, one of the rarest in all appledom. The story of this new apple is as interesting as that of the former offering of West Virginia.



A. H. MULLINS

The farm of A. H. Mullins, West Virginia, is not unlike most of the farms in the mountain section of the state. It has its apple orchards of seedlings, some good, some bad, many worthless almost. But it was on this farm that nature matured a seedling tree which is destined to play a very big part in the apple production of the world. Away up on a hillside, on a part of the Mullins farm unfit for field work and rarely visited by the owner, sprang up an apple tree. It grew unaided by man, and fought alone the battle of existence. No doubt it was assailed by the numerous bugs and insects which usually attack the apple tree. But nature did not plant this tree in that lonely spot and fail to give it strength to ward off enemies. And so the seasons came and went and the little tree in time grew to maturity. One day Mr. Mullins had occasion to visit the hillside. At that time the tree was bending its branches to the ground under a load of glorious yellow fruit. Can you see the picture? I can. And I can imagine pretty clearly the thrill of rapture which must have gone thru this quiet farmer as he gazed on the wonderful sight. What was it he beheld? A tree of glorified Grimes Golden? No, for even glorified Grimes Golden could not present such an array of beauty. The apples were fifty percent larger than Grimes' Golden, round and slightly conical. Mr. Mullins picked one and when he bit into it, then and there experienced the "great taste." He found the flesh a rich creamy yellow with a faint tint of orange color. The apple was juicy, with an exquisite aromatic flavor, as delicious as a fine pear.

Mr. Mullins realized that here was a very fine apple and one which the world ought to have and would demand when



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Gardening logically goes with poultry-raising. Planet Jr tools make gardening easy, resultful, and profitable. They are scientific tools invented by a practical farmer and manufacturer. They make every minute, every ounce of energy, every foot of soil yield its utmost. They enable you to save time, labor, money, and get bigger, better crops.

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No. 25 Planet Jr Combined Hill and Drill Seeder, Double and Single Wheel Hoe, Cultivator and Plow sows all garden seeds from the smallest up to peas and beans, in hills or in drills, rolls down and marks next row at one passage, and enables you to cultivate up to two acres a day all through the season. A double and single Wheel Hoe in one. Straddles crops till 20 inches high, then works between them. Steel frame and 14-inch steel wheels. A splendid combination for the family garden, onion grower, or large gardener.

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21¢ Per Rod Up

Poultry Fence

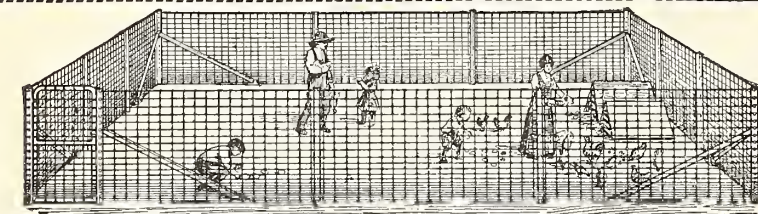
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A ROD

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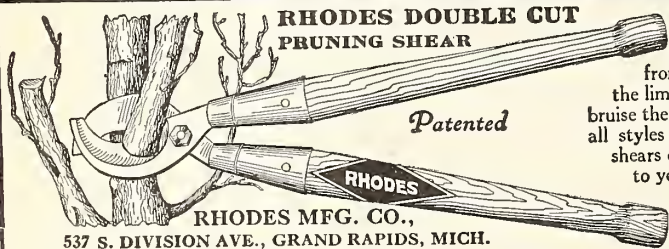
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THE only pruner made that cuts from both sides of the limb and does not bruise the bark. Made in all styles and sizes. All shears delivered free to your door. Write for circular and prices.

it became known. He was not an orchardist or a nurseryman, and within himself had no way to thoroly propagate and send out for trial trees of the new variety. So he sent a sample of the fruit to Stark Bros. Nursery and Orchard Company and they at once made an inspection of the original tree. They secured scions and buds therefrom and sent out into all parts of the country young trees for trial.

I have them growing on my place. They have withstood 33 degrees below zero without injury. Many of the trees sent out have fruited in all apple-growing sections of the United States. The report is one and the same—tree hardy, a splendid grower, fruit of superior quality and in abundance. I asked Mr. Mullins for a photograph of himself, for I wished to present to the readers of the AMERICAN POULTRY JOURNAL the likeness of the man whom Nature chose as an instrument to send forth this glorious apple. I had hard work in inducing this sturdy mountaineer to sit for a picture. However, he reluctantly did so, and I am glad. When Delicious was first offered the public I strongly advised all planters to plunge on this variety. Many of the wise ones did so and reaped a rich harvest before the doubters and the weaklings got into the game. I now advise the planting of this new apple. Golden Delicious, extensively. It will be a big money-maker for the men who get in on the ground floor.

* * *

I sold a consignment of apples a few days ago for \$7 a barrel. They were good apples and there is a good profit in raising them at this price.

* * *

Like many others, I turn to you when in need of advice. I live in a suburb of Montreal, but would like to move south. The only farming I have ever done has been in the poultry line, but I would like to go in for some other branches, especially orcharding. I am eighteen years of age, strong, and in perfect health and willing to work. I have had a good education, including five years of college, altho that does not advance me in agricultural knowledge; still it would be a help in anything I may undertake. Would like to know which state you think would be best. Would like to find a climate where the winters are short but healthy, of course, and where it is good for orcharding. I want to get work, something in the line of orcharding, so that later on I would have sufficient knowledge to run an orchard of my own. Would it be possible to get employment before leaving here? Do you know anything of the Strout Farm Agency?
F. Clement.

I do not consider myself competent to pick out the most favorable location for my correspondent. In the South, I think Virginia and North Carolina the most favorable states for the production of apples, peaches and grapes. I think this young man should find no trouble in securing a place on a fruit farm in either of these states. Just how he can get in touch with fruit growers down there is not so plain. Perhaps an advertisement in AMERICAN POULTRY JOURNAL and one or two leading fruit journals would bring the desired results. Personally I know nothing of the Strout Farm Agency.

* * *

Would like some information on currants, gooseberries and raspberries. We have recently moved to the country, where we have some of the above named varieties which have been greatly neglected. Would like to know when and how to prune. The currants and gooseberries are in great clusters and notice that the leaves and fruits were on the tip ends

of the canes and the bushes in general seem very unhealthy. I wish to move the raspberries from their present location, as they are along the garden fence, where it is difficult to cultivate. The vines are one solid mass and I want to know how to cut them back. Also, when can I expect fruit on them after moving them? When is the best time to move rhubarb?
A. K. Wagner.
Vermont.

The proper time to prune currant and gooseberry bushes is in the fall after the leaves have dropped. They can be pruned in the spring before growth starts. Cut out all but four or five branches, leaving only two-year-old wood. If you will pinch back the ends of growing branches in July and August you will cause the branch to be set with fruit buds all along the length of the branch. If this is not done, the fruit will be borne on the extreme end of each branch. Of course, you will thus have but little fruit to each bush. I would not replant the currant and gooseberry bushes, as you say they are very unhealthy. Dig them out and burn them, roots and tops. You may be able to get some good plants out of the row of raspberries. I am of the opinion you would do better to discard them, also, and make a new planting of Royal Purple (purple) and Cumberland (black). However, if you decide to draw on this old bed for new plants, select as strong young plants as you can find. Cut them back to a few inches above the roots. You can safely transplant them next spring just before growth starts. Be sure not to plant them too deep. You should get fruit in a limited amount from these transplanted vines the third year. The best time to transplant rhubarb is in the fall, but you can successfully transplant it next spring, and I advise you to do so.

* * *

There is a good reason for corn being high in price out here in the heart of the corn-producing section. In this vicinity there is scarcely any hard, well-matured corn. It was caught by the fall frost and is even too soft to crib. Thousands of southwestern cattle are being brought here and are being fed this soft corn. It was the only thing to do, tho it is a rather risky venture.

* * *

For some time I have had it in mind to plant a commercial apple orchard but as I know very little about it and have not much money to waste, I am seeking your advice.

Have read somewhat about the state of Montana, in which claims are made that the Missoula Valley is a good place to grow apples. Would the difference in the price of the land here in Pennsylvania and there, considering the final result, make it advisable to buy there? Would poultry do well there? Would you advise to plant Northern Spies, Baldwins or Wealthy trees for the main crop? There are no large orchards here, but do not see why they could not be made to pay.

Please recommend a book that covers the care of trees and the subject complete. Peaches do not do well in this locality. Have not had a good crop for about six years. Only two or three peaches to a tree. Can you tell why this is? I know of one orchard that was set out six years ago and has never had a peach on it yet.

Have wanted for some time to get out and get next to the earth. Have two young boys whom I would like to see good farmers, for I do think there is no better work than to be a tiller of the soil.
T. E. Lyon.
Pennsylvania.

I cannot imagine why a man in Pennsylvania should look elsewhere for land upon which to establish an apple orchard. It is like leaving the Garden of Eden to roam in the wilderness. Why, man, Pennsylvania contains some of the finest apple land to be found anywhere in the world. The soil is



A NEW Golden Profit-Maker

THE golden reward of a century's search. Queen of all yellow apples. The greatest fruit development since Stark Delicious—master of all red apples, was given to fruit lovers by Stark Bro's Nurseries.

Fruit men have long longed for a yellow apple combining delicious flavor, great size and young bearing, late keeping and hardy tree characteristics. "Golden Delicious" is the answer—the apple of which Col. G. B. Brackett, U. S. Pomologist, Washington, said:—"Here is an apple that has an even better flavor than Grimes Golden!" Jos. Gerardi, the fruit expert, declares: "I foresee

Golden Delicious

the first choice of our orchards." "The tree is as hardy as Wealthy or Stark Delicious," asserts Silas Wilson, owner, of the famous 800 acre Wilson Orchards. The branch shown at left, is a "topgraft" inserted 18 months before photo was taken. In 18 months that graft grew and bore this fine crop of extra large golden fruit! Nothing equal is recorded in all our 102 years of history!

This apple will be planted now by foresighted fruit growers. It will prove a "treat" to every family who plants even a few "Golden Delicious" trees. Learn more about it—and all Stark Bro's Improved Varieties of Fruits. Write for

2 Books That Will Show the Way To Sure Fruit Money—FREE

1918 marks the beginning of greater-than-ever fruit profits for fruit raisers. These books tell why you now face money-making opportunities! They post you on all Stark Bro's Improved Young-Bearing Varieties of Apples, Peaches, Pears, Plums, Cherries, Berries and Grapes. Get our Special 1918 Price Offers, and Freight Prepaid Offer. Write for both today.



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Why Take Chances? Find Out What An Incubator Is Made of Before You Buy

Why Pay More

- For only \$12 you can get these two unbeatable machines, delivered, freight paid east of the Rockies.
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Made of California Redwood

Send for our Free Catalog and we will send you a sample of the material used in Wisconsin Incubators and Brooders. Then you will know which machines are built best, which will last longest and which will give you the most value for your money. One good hatch will pay for a Wisconsin outfit and more. Why take chances? We give you

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Both Machines \$12
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- 180 Egg Incubator and 180 Chick Brooder both for only \$14.75
- Wisconsins have hot water heat, double walls, air space between double glass doors, copper tanks and boilers, self regulating. Nursery under egg tray. Made of finest, select, clear CALIFORNIA REDWOOD, not pine, paper or other flimsy material. Incubator finished in natural color—not painted to cover up cheap, shoddy material. Incubator and Brooder shipped complete with thermometers, egg tester, lamps, everything but the oil. This is the best outfit you can buy. If you don't find it satisfactory after 30 days' trial, send it back. Don't buy until you get our new 1918 catalog, fully describing this prize winning outfit. WRITE FOR IT TODAY. You can't make a mistake in buying a Wisconsin. On the market 15 years.

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"A good strong chick from every hatchable egg is my motto, and I make good on it with a Buckeye every time I start a hatch.

"I never really got results except with the Buckeye. I have experimented a lot, and paid well in valuable time and good eggs for the education. But with the Buckeye I never had to 'run' it. I just set it, tended the lamp and turned the eggs every so often. The Buckeye did the rest and the first hatch was just like I'm getting now—a big, strong chick from every hatchable egg."

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THE PERFECT INCUBATOR

The beginner stays in the business when he starts with a Buckeye. He has no experimenting to do; no period of training to pass through and pay for. We have done the experimenting and taken all the gamble out of the business. Our guaranty goes behind the first hatch.

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The Buckeye is guaranteed always to give a perfect hatch of the largest and strongest chicks. To operate satisfactorily in any temperature down to freezing. To require no artificial moisture, and no attention to the regulator from the time the hatch is started until it is finished. The perfect construction of all its mechanical parts is also guaranteed, and any incubator or part thereof that does not fulfill our guarantee in every particular will be replaced without question any time within 40 days.

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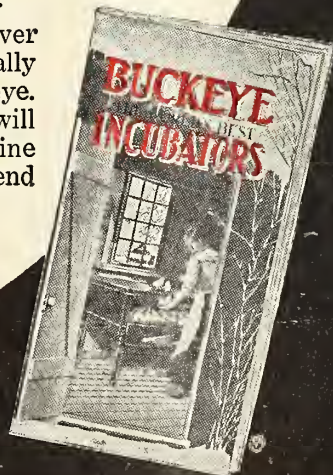
It gives all the reasons for Buckeye superiority and success; why we are able to place behind it our unqualified guaranty. In this catalog every Buckeye claim is backed by the most remarkable lot of testimonials ever printed. Write a card for it today.

See our dealer. Over 6000 dealers enthusiastically recommend the Buckeye. The one nearest you will gladly show you the machine in operation. Let us send you his name.

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EVERY
Raisable
Chick!

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"I don't worry any more about brooder losses. There is no such thing as 'failure' in our business since we installed the Standard Brooder. Some sort of an accident is the only thing that keeps us from raising every chick that is hatched right—and with Buckeye hatches that means all of them. Even an accident is next to impossible with a Standard. There's nothing about it to catch fire and burn up the brood; no corners where chicks can be crowded and killed. It's fire-proof and fool-proof. Broods a few or a thousand chicks with equal safety and comfort—and raises them all."

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Among more than 30,000 users of Standard Colony Brooders satisfaction is universal. Not one failure has been recorded. Users are so enthusiastic over their success with the Standard that its fame and its sales are spread automatically. Nothing like it has ever been offered to poultrymen, and as it is completely covered by patents, it can be bought only from us and our agents. We are so sure that it is the best brooder ever invented, so certain that it will satisfy you, that we will let you

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You know what you want a brooder to do for you. Read every claim we make on this page. Add all other requirements you think necessary. We'll sign it. And if the Standard does not fulfill all our claims and your demands the first time you use it, we'll return your money without argument.

The Standard is the simplest and most economical brooder. Burns hard or soft coal. Costs less than six cents a day. Fire lasts 24 hours from one filling. Installation and operation expense cut to less than half. Labor to less than a quarter. Self-feeding; self-regulating, everlasting.

It is the most sanitary brooder

and easiest to keep clean. No wooden walls or curtains to harbor vermin and dirt. Nothing to it but a smooth, solid cast-iron stove, a galvanized steel hover and the automatic apparatus for feeding and regulation. Broods 100 to 1000 chicks with equal security.

The Standard is endorsed by all agricultural colleges and experiment stations. It is sold by over 6000 dealers, who are always glad to show it.

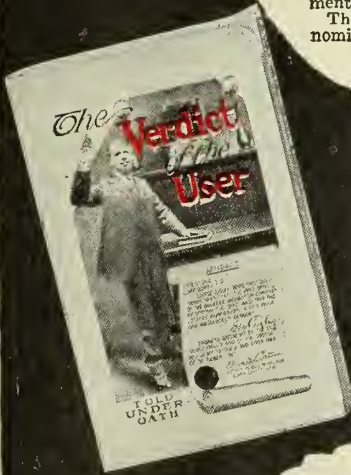
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Nests won't cost you 1c
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You will get 20 to 50 percent more eggs with **KNUDSON Galvanized Steel Lice Proof Nests**. These wonderful sanitary nests last a lifetime. Satisfaction—Unlimited Guarantee.

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"Buffalo" Portable Poultry Runways

Enable you to make any size yard or runway desired. Can be moved to other locations at will. Prices as follows:

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7 ft. long x 5 ft. high...\$3.75
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Above prices are for orders consisting of six or more sections and are F. O. B. cars Buffalo. Best article on the market for young chicks, ducks, geese and other small fowl or animal, also for enclosing small garden plots. Place your order today! You will be well satisfied. Booklet No. 67-D will be mailed you upon request, with six cents in stamps to cover postage.

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right, the land has air drainage, the climate is ideal for the production of beautiful apples of the best quality, and a grower there is at the door of the best markets in the country. In a word, there the conditions are ideal for the profitable production of apples. Land there can be bought as cheap or cheaper than in the boom fruit districts of the West. I strongly advise my correspondents to remain in Pennsylvania. I advise you to plant Delicious, Stayman Wine-sap and Wealthy in Pennsylvania. Also plant Golden Delicious. These are all varieties which have proved best for your state. The Golden Delicious has not been largely planted anywhere as yet, but I think the men who get in now with their planting of this variety will reap a rich harvest. The Nursery Book is one which you should buy and study carefully.

* * *

If you have not pruned the grape vines, do so this month. If you wait much later there is danger of the vines bleeding to death when pruned.

* * *

Would like your opinion of the land in Manistee County, Michigan, as fruit land, in particular that section along the Manistee River about eight miles in from Lake Michigan. Are the soil and climatic conditions right for fruit production? Which is better, rolling land or that nearly level? What varieties of apples, peaches, cherries and plums would do best there, and which of these fruits would be the most profitable for that section, it being about eight miles from Manistee, the best shipping point? How does the Upper Peninsula compare with this section as a fruit country? How about Wisconsin? Which section has the most productive land, Wisconsin, the Upper Peninsula or Lower Michigan? A Subscriber.

The lands along the river of which you speak are good for fruit, but by no means the best in the state. The best fruit lands are nearer the lake. Climatic conditions near the lake (Michigan) are ideal for fruit production. As a rule, rolling land is better than level land for fruit raising, because the air and water drainage is better. The Upper Peninsula is the best part of the state for the production of cherries.

There are some very good fruit lands in Wisconsin. The apple industry is developed to a greater extent in Door County than in any other county of Wisconsin. There are more farming lands in the lower portion of Michigan, of course. Wisconsin, as a whole, is more of a corn, hay and dairy country than a fruit country, altho fruit is grown in practically every county of the state.

For the location which you first designate, the McIntosh Red, Delicious, Northern Spy and Wealthy are the best apples. In cherries, plant Montmorency, sour, and Lambert and Black Tartarian, sweet. In plums, plant Omaha, Endicott, Gold and America. The peach is best grown some south of your described situation. Early Elbert, Elberta, J. H. Hale and Kummel are best for your planting.

Driver Agents Wanted

Drive and demonstrate the Bush Car. Pay for it out of your commissions on sales. My agents are making money. Shipments are prompt.

Five-Pass., 34.7 H. P., 1 32x3 1/2 tires

115-In Wheelbase
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BUSH MOTOR COMPANY, Bush Temple, Chicago, Illinois

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Ten Leading Strains

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White Wyandottes, Barded and White Rocks, Rhode Island Reds, White, Brown & Buff Leghorns, Anconas and Broilers. Egg average 254 for flock. Prompt shipment and safe arrival guaranteed. Catalog free.

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from our prize winning stock. Stamford Black Orpingtons have won at Madison Square, Boston and New York Palace, and have no peers. If you want to raise the best, which is the only kind worth raising, send for my mailing list today.

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Brown Leghorns

ARE SURE PRIZE WINNERS.

For this season at Chicago Coliseum, Iowa State Show, Milwaukee and Davenport, Iowa, 14 firsts, 4 seconds, 3 thirds, 1 fourth and 2 fifth prizes, and two silver cups. I have some **Grand Cockerels for Sale** also a few dark brown pullets, brothers and sisters to my winners, at very reasonable prices; write your wants.

26 years a breeder of Brown Leghorns.

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War Horses

Make a new record at Madison Square Garden, 1918. In the money for 25 years. To help win the war best eggs reduced to \$5.00 per setting. Nowhere on earth can this be duplicated. Special: 100 prime breeding cockerels, \$3.00, \$4.00 and \$5.00, each. Warning: Do not place order before writing me.

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R. I. Reds at \$20.00 per 100, or \$18.00 in lots of 500 or more. We furnish only pure bred stock of the finest quality, chicks that live, grow and produce. Book your orders now. Safe delivery guaranteed.

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Questions and Answers
 Conducted by
 Prince T. Woods, M. D.

Questions about poultry are answered in this department free for all readers of American Poultry Journal. Where answers are desired by mail, a stamp for reply is requested. Address all query letters to the managing editor, Dr. Prince T. Woods, Lock Box 4, Silver Lake, Mass.

Brooder—Mating—Scoring.

Q. (1) Would a brooder 4x6 feet, with a window at top, covered with heavy muslin, be suitable for raising small chickens?

A. (1) The description does not indicate a satisfactory brooder. Would not experiment with the home-made sort unless you have plans of one which has proved practical and successful. There are plenty of good brooders offered at reasonable prices.

Q. (2) Where can I secure information on mating and scoring S. C. Buff Orpingtons?

A. (2) Apply to the breeder from whom you bought your stock for advice on mating. He knows more about the strain than anyone else. If you want your birds scored send them to the nearest score card show.

Q. (3) How many chickens could I house, comfortably in a house 4x6 ft., allowing them to run with their mothers?

Indiana. H. W.

A. (3) Divide the house into two or three compartments by partitions. Allow fifteen to twenty chicks to one hen in each compartment.

You did not sign your name to your letter nor did you give your home and town address. We have made an exception in your case, but ordinarily we do not answer letters unless signature and address of the correspondent is given. Sign the full name and give complete address.

Music or Poultry—Which?

Q. (1) I am a reader of the American Poultry Journal, which I buy at the newsstands. Have a notion to start with poultry next spring in Erie County, Penn., with a 200-egg incubator, brooder, bone grinder, etc. Have fair buildings for the purpose. Which variety will do better, Anconas or White Leghorns? Can you recommend any particular laying strain as best?

A. (1) We do not think that there is any choice between the two breeds. Both are good. Would select the one which appeals to you most. We cannot recommend any strain.

Q. (2) We raise some grain at home. At present I travel with an orchestra as a musician at a salary of \$37 to \$39 per week. Nowadays my expenses are high, reaching \$20 to \$25 per week. What would you do, stick with the music or start with poultry?

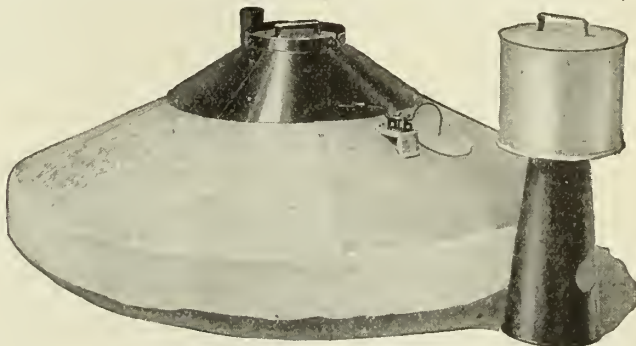
Spartanburg, S. C. J. M.

A. (2) Stick with the orchestra. A salaried job is much safer for you than attempting to make your living with poultry under present conditions.

Early or Late Molt?

Q. I have some hens that molt early and a few that molt late. Those which molt

now. We do not consider that it has been proved that early molting hens lay less than late molting hens. If the hens are equally healthy, vigorous and desirable in quality, there is not much choice. Personally, we prefer to have the majority of our hens clean up the molt nicely before cold weather. There are some breeders who believe that hens which have been laying heavily in fall and winter cannot be depended upon for good fertility and strong chicks in the spring. This view needs more or less modification. Much depends upon the condition of the fowls and the way they are handled. We have had very satisfactory results when breeding in the spring from these fall and winter layers. We like to have a few selected, choice brooders start their laying string a short time before we require the eggs for hatching, but we believe it would be difficult to prove that their chicks are any better than those of fall layers possessing equal constitutional vigor and good condition. The chief difficulty is keeping hens in condition which have been in heavy lay for a considerable period. When a hen is laying heavily, she is very apt to do one of two things; lay herself out of condition or take on an excess of internal fat. If you can hit the happy mean between extremes, keep her in condition, and have her take a brief rest now and then, you can get



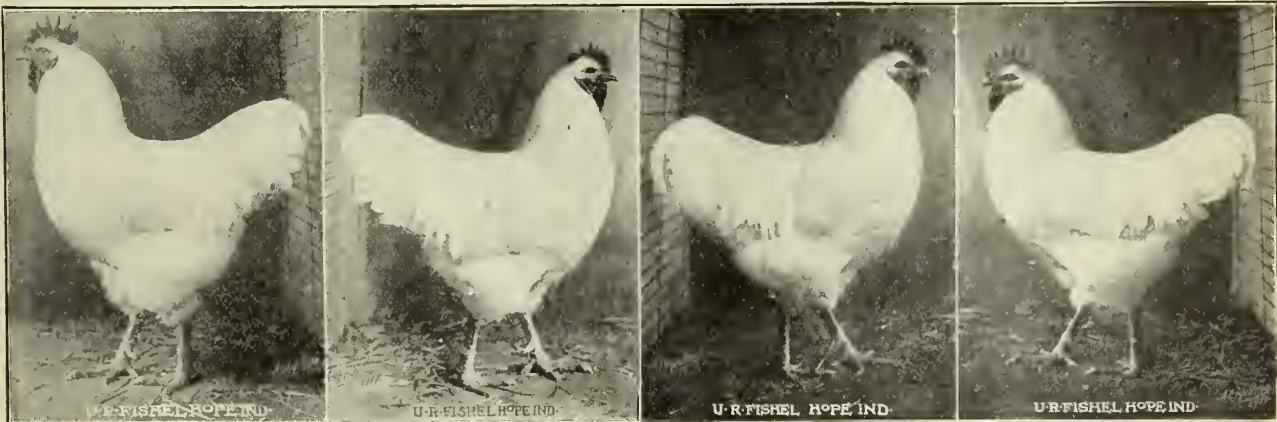
Harrysbourg oil burning colony hover. Manufactured by Harrysbourg Poultry Farm, Dunkirk, N. Y.

early begin laying in November and lay while eggs are at good prices. The late molting ones are not laying now. Which do you consider the best laying hens? The early molting ones that lay high-priced winter eggs or the late molting ones which lay more eggs and cheaper ones?

Port Tampa City, Fla. N. B. R.

A. We know that advocating the late molter as a heavy layer is a popular fad just

good hatchable eggs the year round. It is not safe to pin your faith too closely to the results of "official tests." It is exceedingly difficult to find an experimenter who is without bias, and a biased experimenter or investigator cannot help finding what he is looking for. He may be honest enough and sincere in his effort, but his mental slant and prejudice lead him astray.



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for such very superior quality cannot be described in mere words. Any description of Mr. Fishel's birds would be unjust to them, etc."

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Selected Breeding Pens properly mated, Utility Flocks that will produce eggs and meat. Write your wants, please. Mating list free. EGGS FOR HATCHING BABY CHICKS U. R. FISHEL, Box A, HOPE, INDIANA

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Our 1918 mating list will be ready for mailing March 15th.

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Barker's Langshans

Win Again at Chicago Coliseum, Dec., 1917


1st and 2d cock; 2d and 4th hen; 1st, 3d and 5th cockerel;
1st, 2d and 4th pullet; 1st and 2d pen. Also

At MADISON SQUARE, N. Y., Dec. 28 to Jan. 1, 1918

Win 1st and 2d cock; 1st and 3d hen; 2d and 3d cockerel;
1st and 2d pullet and 1st pen.

If you have decided that only the BEST will satisfy you, write me.

A few Choice Cockerels for sale
Eggs, choice matings, \$10.00 for 15; new mating list.

 1st Cock Madison Sq. Garden, N. Y.

M. S. BARKER, Thorntown, Ind.
— Rural Free Delivery Number One —



Pure bred **BARRON S.C. Wh. Leghorns** EGGS and CHICKS from 282 egg stock

EGGS, \$1.50 per 15; \$7.50 per 100. CHICKS, \$15.00 per 100

Every non-fertile egg and damaged chick replaced free. Send us your order now to insure delivery on the date you wish them. No deposit required.

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doubled their Egg Production during that 30°-below-zero weather of Dec. and Jan. At the shows our strain always wins for our customers. Is it not therefore a sensible business policy to buy this season's Eggs and Day-Old Chix of good reliable breeders? Send for our illustrated catalog giving our prices and live guarantee. H. A. D. LEGGETT & CO., 24 N. Nash Place, BURLINGTON, VERMONT

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Rhode Island Reds.

Q. (1) What do you think of Rhode Island Reds? Are they good layers?

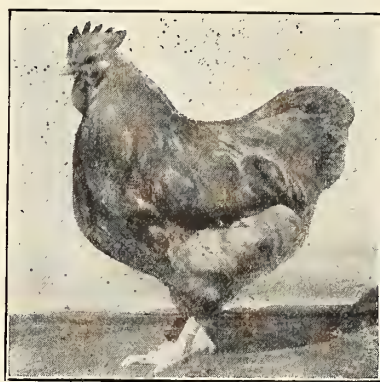
A. (1) They are excellent fowl. As layers they are equal to the best.

Q. (2) Will they hold their color? I have heard that in two or three generations they will degenerate into mongrels.

A. (2) Some fade more than others with age. If your birds are properly mated, bred and cared for, you need not worry about color. The Reds have as fine a foundation as any American variety. Any breed will degenerate if you do not use skill in breeding and give them care. Use mated stock from a reliable breeder. Do not breed unrelated stock; by reckless introduction of "new blood" or crossing strains you can make a mess of things in a single season. Do not believe all you hear; there are a great many people who "know" a lot of things that are not so.

Q. (3) In using the "pelvic bone test" on Leghorn pullets, how wide should they be apart? Can then be too wide apart?

A. (3) We would not pin our faith too closely to any test. Pick birds that are well set up, vigorous, good clear eyes, good head and comb. Avoid over-long heads and long



"Masterpiece." First prize Buff Orpington cock, Illinois State Fair, 1916. Owned by R. M. Seward, Lewistown, Ill.

beaks, knock knees, deformities and decidedly pinched tails. If the pelvic bones are not rigidly set so that it is difficult to get one's finger between them, we should not worry. Flexibility of the pelvic bones, good depth between pelvic bones and end of breast bone, with good curve of abdomen, are considered good indications of laying capacity. If birds are laying you should be able to place two or three fingers between the pelvic bones. It does not matter how wide apart they may be.

We saw an amusing exhibition of "system" selection this winter. The expert was prognosticating the laying capacity of a number of hens and pullets and making quite a hit. Then the man who was passing him the birds slyly slipped him a nice cockerel without being detected. If the expert had deigned to look closely at the bird in his arms he could not have missed the saddle plumage, tho the sickles were missing. However, he did not look, and gave the bird a record as only a fair or very ordinary layer. Then he asked for confirmation of his opinion by a bystander, who said he wouldn't want to say that the bird would ever lay eggs but he might fertilize some. In the laugh which followed the expert joined as heartily as his audience.

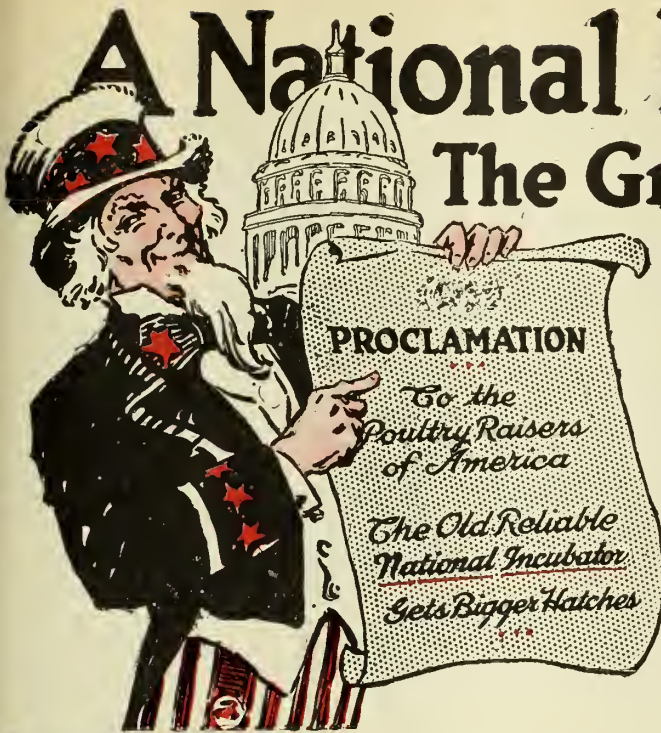
Sprouting Oats.

Q. (1) What temperature should be maintained when sprouting oats? My sprouter is lamp heated.

A. (1) We prefer an unheated sprouter which can be used in a room where the temperature range is from 60 to 75 degrees. Believe this gives better results than a constant temperature. With so small a sprouter as you have, you can operate it in the kitchen without using the lamp. Same temperature range will be all right if you heat the sprouter. If it varies between 50 degrees at night and 80 degrees in middle of day, there will be no harm done.

Q. (2) How often and during what period should oats be stirred?

A. (2) Until they begin to put out rootlets, turn them over twice a day. After the sprouts and roots are well started do not stir, as it will break the fine rootlets and spoil a part of your mat of oats.



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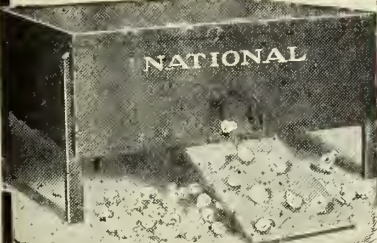
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For years we have manufactured the good old reliable National Incubator. For years we have successfully started thousands in the profitable poultry business, and during all these years we have longed to build a bigger, better, simpler machine to sell at a price everyone can afford. At last we have accomplished our desire. Our 1918 National with all the latest features and improvements is a revelation to the poultry world. Think of it—165 Egg National Incubator for only \$10.00, freight prepaid—On 40 Days Trial—Backed by Our Money Back Guarantee. Your hard-earned dollars cannot buy greater hatching value. You cannot equal this exceptional offer anywhere. Take no chances. The National is simple, compact, durable, economical—and remember, it is

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The Incubator you kindly sent the Agricultural class of the Garretville High School proved a wonderful success. The simplicity of putting the parts together; the ease of regulation; are virtues which speak for themselves. We recommend your machine to anyone. G. H. S. Agricultural Class, Ohio.
 Pleasurship at once 165 egg machine. My other one is O.K. Got fine chicks my first hatch. Harry Neff, W. Va.
 I find everything just as you advertised it. Mrs. M. G. Potter, Mich.

Why Take Chances

Safety Lamp

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This is the Greatest Incubator Opportunity You Will Ever Have

Use it the year around. Its perfect construction, simplicity, wonderful heating plant and metal covering combine to give it the greatest hatching value. This big metal covered machine is not to be classed with cheaply built machines. With proper care it will give you years and years of faithful service. Comes to set up ready to run with egg tester and book of instructions. Order now and save time—start hatches early—early chicks bring the most money. Send postal money order, bank draft or certified check for \$10, (\$12.50 for both incubator and brooder. Machines will be shipped day order is received so don't delay.

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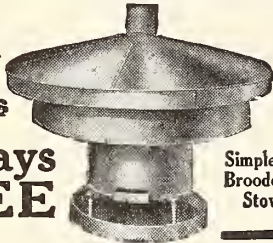
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30 Days
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Use the new 1918 Simplex Brooder Stove on your own hatch for thirty days free. Raise 20 to 50 per cent more chicks at 1-5 the cost, 1-10 the work and 1-4 the operating expense. Small and large broods. Three sizes of stoves. Try our stove under all conditions and if you are not delighted send it back and we will cheerfully refund your money.

Turn Losses Into Profits

This wonderful brooder will raise 50 per cent more of your chicks than you have been able to raise under the old fashion methods. No more deaths from white diarrhoea and poor ventilation. It turns the losses from dead chicks into big profits for you. The Simplex soon pays for itself by the extra money it makes for you. The Simplex Brooder Stove burns kerosene oil, natural or manufactured gas, automatically regulated to insure an even temperature with the least possible attention.

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Write today for valuable free brooder book and catalog. It tells how to "increase your profits by decreasing mortality." Tells how to save chicks you have been losing each year through disease and faulty brooding. How to make more money. Also catalog and details of 30 days trial free. No obligations. Write now.

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Won at Terre Haute, Dec., 1917
on 9 birds entered, 1 cock, 1 hen, 1-2-3-4-5
cockerel, 1-2 pullet.

Breeders—Utility Stock
Eggs for Hatching

Write me your wants and send for mating list. I have the quality, the prices are right, and I can please anyone.

H. R. STEVENS HYMERA, IND.

Q. (3) How often should the oats be moistened?

A. (3) Morning and evening, unless the sprouter moistens them automatically.

Q. (4) How deep should the oat tray be?

A. (4) Two to three inches.

Q. (5) The sprouting compartment of my sprouter is 15 inches from top to bottom and has a glass door 6 x 13 inches. How many trays can I use?

Houston, Tex. M. W. C.
A. (5) Three. We judge that your sprouter is home-made and that you have put a lot of work into it. All you really need is an upright rack capable of holding a drip pan at the bottom and as many trays as you can conveniently arrange one above the other, spaced about two inches apart. You can buy one ready made cheaper than you can build one.

Dark Cornish.

Q. (1) I raise Dark Cornish and some of the young stock have dark toe nails, some of them having nails almost black. What is the cause of this?

A. (1) You have probably been breeding from richly pigmented birds having a good deal of horn color in the shanks and toes.

Q. (2) Have a young male that had a slight cold. He seems to be over that now, but has more or less bubbles and foam in his eyes. What is the cause?

Lacrosse, Kans. W. H.
A. (2) He still has the "cold." Put him into open front quarters. Wash out nostrils and eyes with warm water, dry and apply a little vaseline to eyes and face, and rub some into nostrils and cleft in roof of mouth. Feed him liberally.

Kafir Corn.

Q. (1) Where can I obtain kafir corn?
A. (1) For seed, of your seedsman. For feed, of your feed and supply dealer. You may find more or less difficulty in getting a supply under present conditions.

Q. (2) Is the red or the white the best to feed?

A. (2) Do not think it makes much difference. Feed what you can get.

Q. (3) Tell values of buckwheat, barley, rye, sunflower seed and kafir corn. How should they be fed in a ration with corn, oats, wheat for grain, and wheat bran, middlings, alfalfa and Darling's meat crisps as a mash?

A. (3) We believe it is not necessary to waste much time figuring the chemical balance of the ration. The fowls will unbalance your hard grain mixture as soon as you feed it to them. Place your main reliance in corn and oats. Give kafir for variety, and now and then a little sunflower seed for "cake and pie." Following is table of values asked:

Buckwheat	.....	12.6	8.7	2.0	10.0
Wheat	.....	10.5	1.8	1.8	11.9
Corn	.....	10.9	1.9	1.5	10.4
Oats	.....	11.0	9.5	3.0	11.8
Buckwheat	.....	12.6	8.7	2.0	10.0
Barley	.....	10.9	2.7	2.4	12.4
Rye	.....	11.6	1.7	1.9	10.6
Kafir	.....	9.3	1.4	1.5	9.9
Sunflower	.....	8.0	28.5	3.0	13.0

Feed	Starches	Fats	Nutrient in.	Ratio	1 Oz.	Calories
Wheat	71.9	2.1	1:6.3	102	
Corn	70.3	5.0	1:7.9	106	
Oats	59.7	5.0	1:6.1	96	
Buckwheat	64.5	2.2	1:7	83	
Barley	69.8	1.8	1:6	100	
Rye	72.5	1.7	1:7.2	100	
Kafir	74.9	3.0	1:8.3	106	
Sunflower	23.9	23.6	1:6.3	105	

Q. (4) Please give information about Lakenvelders.

A. (4) The Lakenvelder is a fowl of Dutch origin, having type like the Leghorn. Hackles and tails are black, body white. When well bred they are a strikingly beautiful fowl. Excellent layers of white-shelled eggs.

Q. (5) Buttercups?

A. (5) Buttercups are a medium-sized breed of somewhat Mediterranean type. Comb is peculiar to breed and is cup-shaped, surrounded by numerous points, upright and diverging from crown, like petals of a flower. Cock has dark red or bay plumage with black tail and flights; shanks willow. Female is golden buff, penciled or spangled with black; breast plain buff, often spangled with black. Reputed to be excellent layers.

Q. (6) Yokohamas?

A. (6) The Yokohamas, or long-tailed Phoenix fowl of Japan, are an ornamental fowl of considerable beauty and are bred and handled to develop wonderful growth of sickle

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DISCOVERY IN 50 YEARS SOFT-HEAT TUBELESS

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produces the natural heat of the hen—makes the shell more easily broken. Three years' test, brought 100 per cent hatches and all normal chicks.

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above the eggs gives vastly greater radiation than old tube system and spreads heat evenly. No hydrometer. Hatches on 1 filling of tank and less than 1 gal. oil. Eggs turned without removing tray. No gas or bad odors. A child can easily operate it. Don't waste your eggs and time on ordinary hatchers. Learn about this dependable, new machine.

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Mention the American Poultry Journal when writing to advertisers.

feathers. Seldom seen except in yards of those who specialize in rare varieties.

Q. (7) Wild Mallard ducks? I expect to keep R. I. Whites.

Newman, Ill. A. R. A. (7) The Rhode Island Whites are stated to be a very excellent variety. Wild Mallards are very beautiful ducks with plumage similar to the Standard Rouen. You will find color pictures of them in almost any good bird book. You would find Lewis Wright's "New Book of Poultry" very interesting, also Harrison Weir's "Our Poultry and All About Them."

Jar from Trains Affect on Hatching.

Q. Will the jar from passing trains affect the hatching of eggs in incubators in basement 25 feet from railroad tracks? Could jar be reduced by placing incubators on raised platform?

Pekin, Ill. J. F. J. A. One of the first successful baby chick hatcheries in New England had its incubator cellar located quite as near to railroad tracks on a main line. The jar from passing trains would cause the regulator arms and discs to rattle and some machines had rubber-pad shock absorbers, made of old hose, attached to the feet. We used to buy baby chicks there a good many years ago, before the land became too valuable to be used for a poultry plant. We recall that the proprietor claimed to have excellent hatches and he certainly sold chicks at a low price. If the jar in your basement is heavy, you could undoubtedly make a shock-absorbing platform on which to place the machine. A platform supported by lengths of old garden hose placed horizontally and sufficiently close together, or pieces of old automobiles shoes, would probably serve. If you take up enough of the jar so that regulation is not interfered with, that will probably be sufficient. Keep the platform quite close to the floor.

Stag—States for Egg Business.

Q. (1) What is a "stag"?
A. (1) Breeders of games apply the name "stag" to a young male bird. Market buyers refer to cockerels which have been running with pullets or hens, and which have thereby "hardened" and "lost the bloom of their flesh," as "stags."

Q. (2) Is it a fact that hens sometimes do not molt for four or five years, or even one year, as related in an "experience" column?

A. (2) We do not know. We do know that some hens are apparently in a continuous state of molt and never seem to molt like others. Their change of plumage is very gradual and seldom noticeable. Also some fowls seem to retain certain feathers for a long time unless removed by design or accident. This is not uncommon in sickles which in some males grow to extraordinary length.

Q. (3) Is the Hogan system of determining layers reliable? Why is there so little about this system in the papers?

A. (3) It has many features that are capable of practical application. No system is infallible. It is advertised and sold as a "secret system" under copyright.

Q. (4) Does Detroit egg market pay most for white or brown eggs?

A. (4) We do not know, but doubt if much difference is made. Do not mix eggs of white and brown shells in same carton or case. They sell to better advantage when all are of like color.

Q. (5) In market quotations one sometimes sees it stated that eggs from certain states bring lower prices than eggs from other states. Why this discrimination? What states are effected?

A. (5) It is wholly a matter of grade and quality. If the eggs from a certain section are not grading up to quality they bring lower prices. In warm weather, long haul shipments, not refrigerated, and shipments from southern points, do not hold up in quality and the price suffers accordingly. Much of the trouble is due to attempting to market eggs which have been fertilized—many of them held-up country store collections and infrequently-gathered farm eggs—a little heat being sufficient to spoil large quantities. Shipments from sections known to be lax in methods of handling and caring for eggs are likely to be viewed with suspicion. Newspaper market quotations are usually strictly wholesale, and retail dealers have to pay higher prices on small lots. The actual retail price—that paid by the consumer—is higher by several cents a dozen.

Q. (6) Which state is the best for poultry and egg business, Missouri, Kansas, or Colorado?

Holland, Mich.

P. J. M.

1896

WILLIAMS' WHITE YANDOTTES

1918

Champions of 1916-17-18

Winning the lion's share at America's greatest quality shows, Hagerstown, 1916, and the Garden, 1916-17-18, in competition with the kings of the East and from Canada and the Mid-West. At the National Club meet at the Garden, 1917-18, in the keenest quality competition yet seen, I won 1-3 pen, 5 cock, 1-2 hen, 2 cockerel, 1 pullet, best display. At the above three greatest of quality shows I bred, raised and exhibited 26 out of a possible 32 first prize birds, also 7 seconds, 3 of them where I lost first. I won the coveted 1st pen and best display in each show, and the president's cup at the Garden. I have bred winners for New York shows 15 successive years.

My Specialty is Show Birds and Breeding Stock

Good trios and pens mated by a specialist from his own line-bred flock are the best, safest and most satisfactory investment.

My free catalogue tells why, and gives you my broad guarantee

500 choice breeding birds at \$5 to \$50 each

No eggs for sale if above birds are sold.

F. B. WILLIAMS Box H, Naugatuck, Conn.

MAKES CHICKS GROW



THE lactic acid in the pure rich butter-milk strengthens and tones up the sensitive digestive organs of the little chick—helps prevent White Diarrhea. The mixture of clean, wholesome grains, properly balanced, supplies the right nourishment to start and keep chicks growing.

Conkey's Buttermilk Starting Food

for chicks is different from all imitations. Costs two cents per chick for those critical first eight weeks. Builds strong, sturdy chicks that grow into heavy layers, good breeders and full bodied market birds. Buy a bag. Ask your dealer.

Conkey's Poultry Tonic keeps hens laying.

12 lb. pail \$1.40; 6 lbs. 30c and 60c.

THE G. E. CONKEY CO., 1000 Conkey Bldg., Cleveland, Ohio

Conkey's THE ORIGINAL Buttermilk Starting Food



Andrews' Model White Wyandottes

Prove Their Class

← AT →

New York Garden

1st and 4th Cockerel
1st Hen
2d and 3d Pen
5th Cock

Boston

1st and 5th Cock
1st and 2d Hen
1st and 4th Cockerel
2d, 3d and 6th Pullet
1st Pen

Eggs for hatching. Mating list free.
Stock for sale.

J. W. ANDREWS Box A DIGHTON, MASS.

A. (6) Average price per dozen paid producers for eggs in 1916 was as follows:

State	Jan.	Feb.	Mar.	Apr.	May	June
Colorado	36	31	25	18	19	21
Missouri	26	25	18	17	18	18
Kansas	26	25	17	16	17	17
Michigan	31	28	23	19	19	20

State	July	Aug.	Sept.	Oct.	Nov.	Dec.
Colorado	21	22	25	30	36	42
Missouri	18	17	18	25	28	34
Kansas	17	17	18	25	29	35
Michigan	20	23	25	27	32	38

Keeping Eggs for Hatching.

Q. (1) How long can I keep eggs for hatching? I have a 60-egg incubator and only seven hens.

A. (1) The fresher the eggs are when incubated, the better. Never hold them over three weeks. It would be better not to keep them longer than two weeks. Keep the eggs in a place where the temperature does not fall below 40 degrees and does not go above 60 degrees. Higher temperatures may spoil the eggs. Lower temperatures may chill them.

Q. (2) I have White Wyandottes. Do you think them as good as any other breed? Do you think I could make more money with some other breed?

A. (2) You will undoubtedly find the White Wyandottes entirely satisfactory. They are an excellent fowl.

Q. (3) How big a house and yard will I need to keep 50 hens?

A. B.
A. (3) Open front house 14 ft. wide by 16 ft. will serve. Allow from 65 to 75 sq. ft. of yard room per fowl.

No Male—Tile House.

Q. (1) Will a flock of hens get along all right, as far as laying is concerned, without a cock? Eggs not wanted for hatching.

A. (1) Yes.
Q. (2) I have a chicken coop made of tile and covered with cement, floor and all. Do you think it will be too damp? I keep hay litter on the floor. House faces east and has a row of windows running the full length of front, 9 ft. by 12 in., close to roof.

A. (2) We would not care for a house of that sort. It is likely to prove damp unless plenty of ventilation is supplied. A part of front should be open. With an east frontage and windows as described it will get very little sunlight. Would be better if house faced south.

Q. (3) How many fowls can be kept in a house 7 x 9 ft. and a yard 14 x 9 ft.?

A. (3) Not over 10 or 12.
Q. (4) Are the Hamburgs as good layers as the Leghorns?

A. (4) They are good layers and lay a rather small egg. Would not want to keep Hamburgs in a house such as you describe. Why don't you get a good portable house of desirable type?

Q. (5) I would like to keep two breeds. What breeds do you recommend?
Shenandoah, Pa. M. V. M.

A. (5) Do not try to keep two breeds when you have such limited accommodations. You do not need two breeds if you are keeping fowls for eggs only. Any of the popular breeds should suit. Why not try Leghorns since you fancy them? They stand confinement well.

Automatic Feeders.

Q. (1) I am a beginner. Can you tell me which is the best automatic feeder? I have been stung on some poultry equipment of small capacity that could only be used by those who have time to fool away.

A. (1) There are several good automatic feeders. We would not undertake to say which one is best. We have used the Gillette, the Norwich and the Simplex. Do not get too small a feeder. We prefer the 16-qt. size. The 8-qt. feeder is rather small but quite convenient for small flocks. The 32-qt. feeder is satisfactory with large flocks of adult fowls.

Q. (2) Are automatic feeders practical?

A. (2) We consider them so and use them. The simpler the feeder, if easy to operate and feed supply can be controlled, the better.

Abnormal Yolk—Worms.

Q. (1) A Barred Rock pullet laid an egg which was all yolk. Contents like lumpy mustard. Had a little odor, but not offensive. Has not laid since. Others hatched at same time have not begun to lay. Is this the result of something abnormal in pullet and will she prove any good as a layer?



Dr. Globe Says:

"It's your duty to raise more poultry. Help feed yourself and others."

Blue Ribbon Poultry Feeds

will help you do this easily and economically. Start with

Blue Ribbon Little Chick Feed

It will make them grow fast and strong. This is only one of the famous

Blue Ribbon Poultry Feeds

Send for our book "Poultry Feeding Illustrated" and samples of our feeds. For sale by feed dealers everywhere.

GLOBE ELEVATOR CO.

25 Seneca St. Buffalo, N. Y.

R. C. REDS

OFFICIAL RECORD

Meyer's Famous R. C. Reds

Our pen No. 59 in the 1915-16 Missouri National Egg Laying contest has

The Highest Record Ever Made

by a pen of Reds in any laying contest.

Our pen No. 22 in the 1916-17 American Laying Contest was first prize pen in the contest.

This shows that Meyer's Reds are leading all others. They win first year after year in competition with the best blood in this country. If you wish the best, write for free mating list.

RIVERVIEW POULTRY FARM

Hubert Meyer, Prop. Klondike, Mo.



BABY Chicks

100,000 For 1918

Rhode Island Reds, White Wyandottes, White, Brown and Buff Leghorns, Black Minorcas, Anconas, Barred and White Rocks and Broilers. Extra large and heavy layers. Egg record of 248 flock. Lowest prices. Literature free.

HARRY LEPARD

1945 W. 74th St., Cleveland, O.

My Loss—Your Gain

"It's an ill wind that blows nobody good." I had the misfortune to have some of my cockerels frosted, and have a lot that I will let go at \$3.00 to \$5.00 each. They are from my high record stock worth a great deal more than I ask for them. This accident in no way affects their breeding value. They are my famous

S. C. W. "Lay"ghorns

and will increase the egg production of your flock. I have Breeding Hens with records of from more 160 to 200 eggs than I can carry over. I Three for \$6. Send for mating list. We will let them go at

EMORY H. BARTLETT Box 19 ENFIELD, MASS.

The Extra Eggs

will soon pay for one of these

Automatic Self-Heating Poultry Fountains and Heaters

Keeps water at the right temperature day and night in the coldest weather and requires less than a quart of oil a week. Made of Galvanized Steel. A long felt want supplied. Every Hen-Home needs one. Price of Heater and Gallon Automatic Fountain complete \$1.60. Order NOW or write for Circular G and testimonials.

Agents Can Make Big Money. Write for Offer.

G. A. S. FORGE WORKS. SARANAC, MICHIGAN

EGGS CHIX

White Plymouth Rocks

Always in the Ribbons — Abundant Layers

At Attleboro, Mass., with the best in the East competing, we won 2 cock, 1, 5, 6 hen, 6 pullet, 6 cockerel, in six entries

Hatching Eggs.....\$4.00 per 15
Chicks.....20c each

COCKS BROS. Box 284 ATTLEBORO, MASS.

Mention the American Poultry Journal when writing to advertisers.

A. (1) Do not believe the pullet will ever be of value as a layer. Abnormal egg may have been result of injury or disease, or both.

Q. (2) Discovered round intestinal worms in droppings about a month ago. Have not found any more. There are 100 hens in this flock. Used medicine in drinking water. Would you recommend any further treatment?

Morristown, N. Y. E. D.
A. (2) Tincture of Cina in the drinking water, one teaspoonful to each quart of water, is useful when worms are noticed. Chopped or crushed onions, or garlic, are good to use in the mash as follow-up treatment. Give them raw, all that the birds will eat freely.

Spoiled Corn.

Q. (1) Can you tell me how to feed corn which is poor and usually moldy?

A. (1) Moldy corn is not fit for poultry feed. It is almost certain to cause sickness and losses.

Q. (2) Do you think that drying the corn in the oven would help, even if it is moldy, and that it would be all right to feed poultry? Would boiling help?

A. (2) You might wash the corn, then dry it as proposed and try a little of it. Moldy corn is dangerous. If the mold shows in the heart of the grain, do not attempt to feed it. Boiling will make soft corn safer to feed. We certainly would be exceedingly careful about feeding moldy corn or grain that has heated in the crib. We are getting many inquiries of this sort. The condition of the 1917 corn crop is very discouraging, but we have to make the best of a difficult situation. You will find an editorial on this subject in January issue, pages 34-35.

Q. (3) I have a number of cockerels. Would it be best to sell them at present prices or to hold them longer for a higher price?

A. (3) If they are in marketable condition and you do not need them for home food supply, would certainly market them now. The longer you keep them the less you will get out of them.

Q. (4) I do not shell corn to feed it to poultry; feed it on the cob. I drive long nails, about 6 inches long, thru the side of the chicken house so that the points project inside the house—or use them in boards to be fastened up in house—and the cobs are placed on these nails, butt end toward the board. It certainly works fine. As poultry exercisers, cobs of corn used this way make the best I have seen. When I take off the cob I put a fresh ear of corn on the nail. I place these corn exercisers about 15 inches from the floor. It saves shelling corn and keeps the hens busy.

DeKalb, Ill. L. E. N.
A. (4) Your plan of feeding corn on the cob is interesting. When we have or can get ear corn we always feed it on the cob to adult stock. Just toss the husked corn ears into the litter and let the hens do the rest. They will get plenty of exercise out of corn on the cob any way you feed it.

Wants Experience in Caponizing.

Q. (1) Where can I get practical experience in caponizing?

A. (2) Get a book of instructions, a set of instruments, and practice on your own cockerels. You can get instruction at your state college of agriculture.

Q. (2) I am anxious to learn more about poultry. I raised a dozen Leghorns and Wyandottes with good results up to two years ago, following advice in state and federal government bulletins. I also worked on a gentleman's place and took full charge of 200 White Rocks. Hatched and reared 300 chickens. Please suggest what to do in order to follow up this line. I wrote to a dozen or more commercial plants but got no answer.

New York City. M. O.
A. (2) Why not take a poultry course at Cornell University, Ithaca, N. Y.? Or try a correspondence school course in poultry. Correspondence schools state that they are able to find positions for their students. We do not know of any poultry plant that would, at the present time, take a man who is seeking experience. You will find poultry books advertised in this magazine.

Calories in Ration.

Q. I feed my flock a scratch grain of corn, oats, buckwheat and kafir corn, and a mash of bran, middlings, corn meal, ground oats, alfalfa and beef scrap, all equal parts by weight. Please tell me how many calories this ration contains.

Topeka, Kan. J. C. B.
A. Get a hook on composition and values of feeds and figure it out for yourself. Per-

Gensch's Single Comb WHITE Orpingtons

Sensational Victory at Chicago Coliseum, 1917

1st and 4th old pen, 1st young pen, 1st hen, 1st and 5th pullet, 2nd cockerel, 4th old cock. Best cock, cockerel, hen and pullet.

STOCK
We have a few good exhibition birds for sale.
Also—18 Cockerels at \$5 to \$25.
30 Pullets at \$3 to \$10.
18 Hens at \$5.

EGGS
We now have our pens mated and can furnish you eggs for hatching from prize winners. Send for my mating list and place your order early.

→ A limited number of Baby Chicks will be sold from all pens ←

F. M. GENSCH - Omro, Wisconsin



Here's the Doctor

to help you serve your country and fill your needs
Our "Efficiency" Chicks

Never before in the history of our country has there been such a demand for poultry. Our Allies are calling for more and more food. Our own soldier boys must be fed to keep them in trim to fight our battles. We must raise all the poultry and eggs possible. Our "efficiency" chicks are the kind that meet those needs. Letters from our old patrons tell us how well our stock is doing for them. And our prices are surprisingly low. Ask for our catalog, which tells you all about them and the varieties we supply.

CLYDE CHICK HATCHERY Box A-21 CLYDE, OHIO

HATCHING EGGS

from our bred-to-lay

White Wyandottes

Our pens this year are headed by the best males we have ever owned—vigorous, prolific birds of standard type.

EGGS 15 for \$1.50 | 50 for \$5.00
30 for 3.00 | 100 for 8.00

MILLS CREEK POULTRY FARM, W. J. Forrest, Prop., EAGLEVILLE, OHIO



Moeller's SINGLE COMB Brown Leghorns

again win 12 prizes at the 1917 Chicago Coliseum Show

in hot competition—this with previous winnings at the Coliseum and Indianapolis, Columbus and Milwaukee winnings is ample proof that my "Browns" rank among the best in the country. A choice flock of cockerels (either light or dark mating) for sale at \$5.50, \$8.00 and \$10.00 each; also 50 choice hens at \$3.00, \$5.00 and \$7.50 each. Eggs from six grand matings after February 15th. Write for mating list.

H. F. Moeller - Box 137B - La Porte, Ind.



PURITAN POULTRY FARM Single Comb White LEGHORNS

The kind that lay at 4 to 4 1/2 months of age, bred exclusively by us for the last 18 yrs. on the largest poultry farm in S. E. Ohio. We are selling

Baby Chicks and Eggs

from 200-egg record pens, all from our own nests, standard-bred stock, the same as we use in our own flocks, at very reasonable rates. We have bred for years for heavy egg-production, and our birds have heavy laying ability bred in the bone. A limited amount of bedding stock for sale. Send for our literature. We guarantee to please.

PURITAN POULTRY FARM, Newark Road - ZANESVILLE, OHIO

MEYER'S Black Langshans

WINNERS of more prizes at America's greatest shows than any other strain of Black Langshans in the World. Eggs from my all star matings \$5.00 per 15 or \$9.50 per 30. Write for my free mating list and catalogue.

W. A. MEYER Box E Bowling Green, Mo.

S. C. Black and Buff Orpingtons, World's Champions

Winnings in Black Orpingtons at Madison Square Garden, New York City, December 23 to January 1, 1918: Cocks, 1-2-3-4; Cockerels, 1-2-3-5; Hens, 2-3-4; Pullets, 1-3-4-5; First Pen; Best Display. Blue ribbon winners for SEVEN years at such shows as Madison Square Garden, Chicago Coliseum, Cleveland, Toledo, etc., etc. Exhibition and breeding cocks, cockerels, pullets and hens, both varieties, for sale. Also eggs for hatching. Birds of grand color, type and size, bred to win and lay. Birds shipped on approval or C. O. D. Send for handsome illustrated catalog free.

MOORE & BOWLUS Quality Farm - FREMONT, OHIO

Aldrich Strain White Orpingtons

Cocks and Cockerels \$5 each, hens and pullets \$2, pen \$12, eggs from 5 exhibition matings \$3 per 15; everything shipped C. O. D., nothing to pay for until you see what you are buying.

L. C. Bolson Route 7 Decorah, Iowa



J. F. SIEMS, Inventor

A Million Mark Proposition

Over 850,000 People Have Tested Our Great Hatcher

They know from experience that in simplicity, ease of management and certainty of results no incubator in the world equals it. The actual, living hens control everything. It's the incubator that can't make mistakes—and you can't make mistakes in operating it.

As Proof Read the Following:

- "Your incubator speaks for itself. I got 507 chicks from 540 untested eggs."—G. E. Bengtson, Kansas.
- "It beats them all."—Edgar Douglas, Missouri.
- "All you claim for it."—W. H. Murrill, Indiana.
- "No bother, no worry."—Mrs. A. B. Gorton, Kansas.
- "The greatest success of the age."—W. Walker, Ohio.
- "I hatched 225 chicks from 240 eggs."—B. A. Barton, Texas.

NATURAL HEN INCUBATOR 200-Egg Size \$3

Costs Only

Artificial incubators cost four times this amount and do not give half such satisfactory results. Remember the Gov't is behind my machine—fully covered by patents. No freight to pay. Agents wanted. To reach the MILLION mark in 1918, we will send you a SPECIAL INTRODUCTORY OFFER with our FREE CATALOG

NATURAL HEN INCUBATOR CO., 1349 Constance Street, Dept. 4 Los Angeles, Cal.

sonally, we think it a waste of time to figure the calories in a poultry ration. Too much importance is given to the calorie, which is only one factor in determining food values. Ease of digestion, palatability, rapidity of digestion, completeness of absorption, are all much more important factors in food value than the number of calories contained. An ounce of coal would show a very much greater number of calories than an ounce of food, yet you would not want to feed coal to your fowls, nor would you expect it to nourish them. Food faddists and cranks are enjoying themselves at present, but if you should eat at the same table with one of them you might learn that they seldom practice what they preach to others. Your scratch grain will average about 98 calories to the ounce; the mash about 105 calories to the ounce.

A YEAR'S RECORD WITH A FLOCK OF 273 BIRDS.

By H. A. A. REUBUSH, Penn Laird, Va.

DURING the past year I have kept an itemized account of receipts and expenditures of our flock of fowls, which consisted of 85 White Leghorn hens, 68 White Leghorn pullets of our own raising, 102 Barred Plymouth Rock and Rhode Island Red pullets and 8 guineas. In the flock we also had 10 cockerels, making a total of 273 birds.

These birds were housed in four open-front houses and during good weather they had about two acres of orchard range. They were in good health during the entire year and we only lost one or two birds. They were fed mostly wheat screenings and corn; the screenings in the morning, with sometimes a warm mash of shorts and bran, and the corn in the evening. In the winter we fed them beets and cabbage and sowed a patch of rye for them. Oyster shells were kept before them at all times.

We purchased the wheat screenings last year for \$1.35, \$1.50 and \$2.50 per hundred pounds; for corn we paid \$1.05 and \$1.15 per barrel; shorts cost us \$1.80 to \$2.60 per hundred and bran was purchased for \$1.80 to \$2.00 per hundred.

The year's account begins October 1, 1916, and ends October 1, 1917, and is as follows: The White Leghorn hens, Barred Rock and Rhode Island pullets were sold July 21, 1917.

Expenditures.

102 pullets (B. P. R. and R. I. R.)	\$ 43.26
11 cockerels	10.18
8 guineas	3.20
8413 lbs. wheat screenings	130.54
1848 lbs. shorts and bran	42.28
25 lbs. beef scrap	1.02
164 lbs. starting food	9.24
200 lbs. cracked corn	5.00
300 lbs. oyster shell	2.05
60 barrels corn (on the cob)	64.61
Louse killer, poultry powder, etc.	5.38
Eggs for hatching	4.42

Total expenditure\$321.18

Receipts.

Eggs sold	\$366.24
Hens sold	66.52
Broilers sold	25.90
Guineas sold	3.20
87 pullets and cockerels on hand—	
169 lbs. at 25c.	42.25
9 lbs. broilers at 23c per lb. sold	2.07

Total receipts\$506.18

Expenditures 321.18

Balance\$185.00

This year wheat screenings are selling for \$2.25 to \$2.70 per hundred pounds, while corn is \$2 to \$2.50 per barrel; shorts, \$2.50 and \$2.60, and bran, \$2 to \$2.25 per hundred. Therefore to feed the same flock this year will cost about \$100 more than last. This year we are feeding beef scrap in addition to the grain ration and I will be pleased to submit an itemized account of the year's work with our flock of White Leghorns next October for use in American Poultry Journal.

[We have asked a good many times thru the columns of American Poultry Journal for itemized accounts covering a year's work with large or small flocks and we are pleased to publish Mr. Reubush's interesting statements regarding his work with poultry during the past year. We believe that the publication of such accounts will do much to assist producers in solving the very serious problems which they are now facing. In fact, the mere keeping of accurate accounts in connection with poultry work will aid in placing the industry upon a better business basis.—Ed.]



Who
Wants
This
Pony?

(110)

Ponies Given Away

We have given away 450 Ponies to Boys and Girls—all over America.

Now we are going to give away 5 more Ponies—some of them with Buggy, Harness, Saddle, Bridle and Blanket—to five more Boys or Girls.

If you want one of these Ponies, send your name today. We shall write you all about them and tell you how to win one.

Don't let anyone tell you that you cannot win a Pony, because our plan of giving ponies is different from all others.

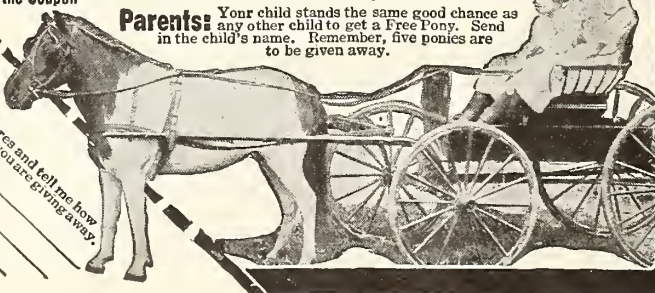
We make it easy for children to get Ponies. Some of the children who have already received Ponies were only 6 or 7 years old, so you know we must have made it easy for them to win.

Free Pony Pictures—Write your name and address, also your age, in the corner below or write on a Postal Card and mail it to us. We shall then send you the free Pony Pictures and tell you how to get one of the Ponies. Don't wait—do it today.

Write Your Name in the Coupon

THE PONY KING, 610 Webb Bldg., St. Paul, Minn.

Parents: Your child stands the same good chance as any other child to get a Free Pony. Send in the child's name. Remember, five ponies are to be given away.



THE PONY KING, 610 Webb Bldg., St. Paul, Minn.
Send me the Pony Pictures and tell me how to get one of the Ponies.
Name _____
P. O. _____
State _____
R. F. D. _____
Age _____



J. S. GILCREST
President
Life Member American
Poultry Association

More Poultry More Eggs— the Crying Need of the World



In all our 25 years of experience, we have never known of a time when a strictly first-class incubator meant more to you than the "Successful" does now. You are not experimenting when you get a "Successful" incubator.

Answer the Call via the "SUCCESSFUL" Route

30,000 Chicks - 95% Hatches

Lancaster, Mo., Sept. 22nd, 1917.
Gentlemen:—The forty Successful incubators I have now in operation have produced over 30,000 chicks for me the past season. These incubators have produced excellent hatches. In some cases as high as 95% hatches. Of the chicks not sold I have actually raised better than 95% of the early chicks I put in Successful Brooders. This certainly is a most remarkable result, and speaks volumes for your machines.
K. I. MILLER.

PRODUCE more meat—help feed the world—make good profits yourself. That's my argument to you this year, reader, and I am backing it up with a machine that has stood the test of 25 years and has helped to make many of the *biggest money makers* in the poultry business. I offer with it no premiums, no sensational claims, no fancy frills, nothing but a pure quality hatcher at the lowest price possible.

Write for Catalog—Mail the Coupon and let me prove my offer with a money-back guarantee. Take two or three hatches at my risk. I'll let you be the judge. Write today.

"SUCCESSFUL" Incubators and Brooders

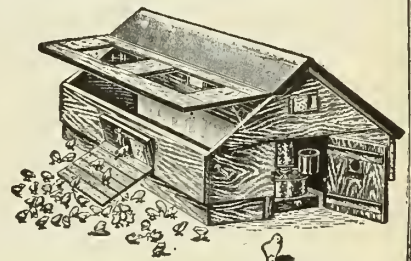
Read the 20 points of construction. Here is the only incubator in the world that's *really* cabinet made so far as I know. The only hatcher that beats around the colder edges of the body first. Guaranteed to vary not over a fraction of one degree throughout the entire hatch—because our patented lamp and wafer thermostat regulator are 99.9-10 per cent perfect. Center top ventilation prevents dead chicks in the shell. But write for catalog and read all about it.

Poultry Lessons FREE

20 lessons in all, the real genuine down-to-brass-tacks facts that explain the way to make money with poultry—everything just as you want it. Free to everyone buying a "Successful" incubator or brooder.

Famous little booklet, "Proper Care and Feeding of Chicks, Ducks and Turkeys," sent for 10c. Big poultry catalog is FREE. Write for it today. We also have high-grade poultry—stocks and eggs of all the leading varieties—land and water fowls.

J. S. GILCREST, Pres. and Gen. Mgr.
DES MOINES INCUBATOR COMPANY
1 Second Street Des Moines, Iowa



Save the Chicks in a **SUCCESSFUL** Brooder built beyond comparison with the deep boxes usually offered. Raised floor, glass drop door top, rain proof with a self-regulating heating system.

If Interested in Hatching Chicks in Large Numbers, Write for Special Proposition

Fresh Green Feed Makes Hens Lay

Turn loafing hens into layers. One husbel oats, wheat or rye makes three husbels of tempting, crisp green feed in the

"SUCCESSFUL" ALL-STEEL SECTIONAL GRAIN SPROUTER

Answers the feed problem—takes care of young chicks too, makes them grow. Made entirely of steel—double walls—fireproof—cannot warp, sbrink or swell. Lasts a lifetime.

Write Today for Booklet

Des Moines Incubator Co.
1 Second Street
Des Moines, Iowa

Please send me catalog and your 1918 offer.

Name _____

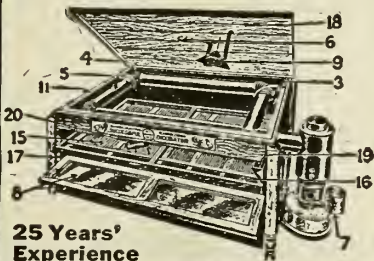
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City _____

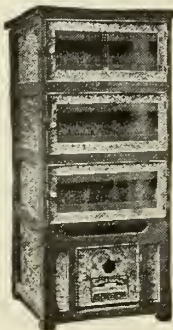
State _____

20 Big Points

- 1—I personally guarantee that the "Successful" incubator will hatch larger and stronger chicks and a larger percentage than any other incubator when operated under the same conditions.
- 2—My remarkably low price offers with high quality.
- 3—The only hatcher that heats the colder edges of the body first.
- 4—Round corners on tank, giving faster current, more heat, even regulation.
- 5—Heaviest copper tank used on any incubator.
- 6—Only one scientifically ventilated. Admits cold air at center of top. Does not create draft which dries out eggs.
- 7—Safety attachment on lamp burner—provides absolute protection from fire.
- 8—Only incubator with two glass doors—through which thermometer may be seen.
- 9—Combination wafer thermostat regulator.
- 10—The only machine guaranteed with a guaranty that guarantees and evades no issue.
- 11—Built like a refrigerator.
- 12—Case non-warpable.
- 13—Weighs more.
- 14—Costs less per pound.
- 15—Strongest, most durable egg trays.
- 16—Nursery under egg trays. The greatest feature applied to artificial incubation.
- 17—Detachable legs, allowing machine to be stored in very small space.
- 18—The only incubator in the world cabinet made.
- 19—Simple, effective application of moisture when necessary.
- 20—Adjustable thermometer. Never necessary to open doors or pull out the trays to read temperature. Thermometer is stationary; chicks cannot knock it over.



25 Years' Experience





No man is born into the world whose work is not born with him; there is always work and tools to work withal, for those who will; And blessed are the horny hands of toil!
—James Russell Lowell.

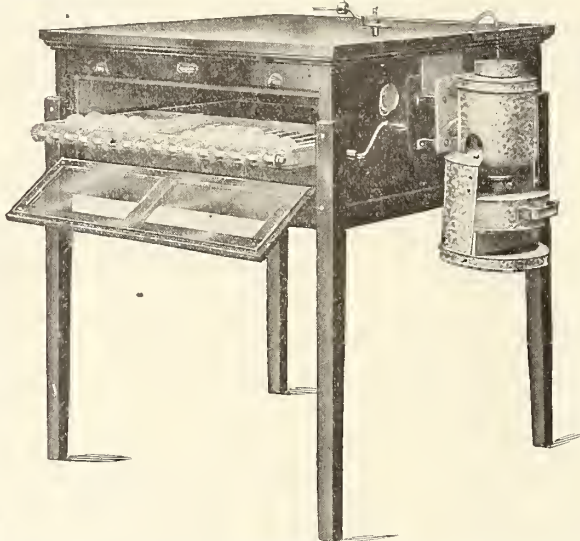
* * *

PERHAPS in no other way can we so clearly see good coming out of the crisis thru which we are passing than in the casting off of trivial things which is now becoming apparent in many walks of life. Everywhere men and women are getting nearer the real things of life and allowing the frivolities to go by default. They are awakening to the fact that they can get along without pink teas or the house heated thruout when only a few rooms are needed. In some cases families have been adopting a co-operative method of getting together during the winter months and thus saving human energy, money and coal—three essentials for the successful prosecution of the war.

It has not been an uncommon idea with many of us that in order to properly represent ourselves, we must have an up-to-date setting—a surrounding of mahogany furniture, perfectly appointed homes and the latest cut in wearing apparel, not realizing that what man seeks is man rather than his fine house or luxurious motor car. That we have felt

the need of so much surplus in the way of accessories bespeaks the lack which we feel in ourselves. A short visit in the shack of a fisherman or a stop at the one room cabin of a mountaineer would bring home to most of us a lesson in

the beauty and value of simple living, and awaken us to the fact that the greater part of our lives are given over to the slavery of material possessions. I have known such hospitality in a two-room shanty as would put to shame the millionaire amid his surrounding of luxury. An old planter once remarked, after having eaten at a fashionable hotel, a roast chicken, in which many condiments and fancy fixings had been used, "No doubt it was very good that way, but I'm too fond of the taste of real chicken to want to have it disguised by other things."



Roller tray incubator. Manufactured by Roller Tray Incubator Co. Nutley, N. J.

In the homes of the unpretentious we get the real flavor of whole-hearted hospitality which is not dependent upon draperies, rare china or works of art, but the heart throbs of the host. Where the walls are plain unpainted boards, the dinner served on the kitchen table, the cups undecorated and perhaps not quite enough of them to go around among the unexpected guests, the wholesome characteristics of the members of the household are viewed in bold relief against the simplicity of their surroundings. That we all admire, and in our hearts feel the need of a simpler way of living

BABY CHICKS AND HATCHING EGGS

FROM TRAPNESTED, BRED-TO-LAY

Barred Plymouth
Rocks



Single Comb White
Leghorns

ACKNOWLEDGED AS THE WORLD'S BEST LAYERS

REMEMBER! Your year's work depends on the kind of stock you buy. The high prices of feed have made it necessary to feed only birds that will really lay eggs. Therefore, buy eggs and chicks from hens which have proven their laying qualities by the trapnest.

Hatching Eggs.....\$ 8.00 per 100 and up | A fine bunch of large, husky cockerels for sale at \$3.50 and up.
Baby Chicks..... 16.00 per 100 and up | Write for catalogue.

NORMAN'S POULTRY PLANT AMOS G. NORMAN Dept. 10, CHATSWORTH, ILL., U. S. A.

ROSE
COMB

ALMY'S REDS

SINGLE
COMB

THE GREAT SENSATION AND RED PRINCE STRAINS

At Madison Square Garden—the Imperial Show of All America—our "Garden Champion" again proved himself the peer of all Single Comb Cocks by winning the coveted *blue*. Our great "Champion Sensation II" (who was first last year) won 2nd Cock in Rose Combs in a phenomenal class. Our "Queen Scarlet"—1st Pullet, Shape Special, 1916—won 1st as Hen. Also won 5th Cockerel and 2nd Pen in Rose Combs. Some wonderful breeding and show cockerels still on hand.

EGGS SEND STAMP FOR MATING LIST.

RED FEATHER FARM, F. W. C. ALMY, Prop.

Box 100, TIV. 4 CORNS., RHODE ISLAND

than that we follow, is apparent by the eagerness with which we return to it when opportunity offers. Who has not relished cooking meals over a fire in the open and eating it without knives, forks or the usual table accessories? Why does not long to get into the forest and live like a savage off the fish he catches for breakfast and the game he bags for dinner?

The simpler we live the more of worth we glean from living. The wise but simple-minded cottager learns that as much of life can be lived in his isolated home as in the millionaire colony, and more satisfaction extracted from it. He fritters none of life in waiting for a time to come when he shall "begin" to live. He knows that each following day will be very like today and takes his daily tablets of joy in the sunrise, the fogs, or the rain, in his daily tasks and associations. He learns to trust men and finds them true. The neighbor, farm hand, traveler or tramp who stops at his door finds ready welcome and from them each and all he gathers bit by bit a knowledge of life, a love of mankind. When the waves of tribulation break over him, he faces the storm and finds it not so bad as believed by those housed in safe shelters. His life is plain and true and lived without frills. His interest lies in the common days that come to him and from which he draws all of worth which they will give, finding a deeper solace in his few joys than those burdened with possessions.

Most of us go rushing thru the day's work with a feeling of distaste for it, in the hope of beginning to enjoy we know not what. There is need of a truer appreciation of life which idealizes the every day functions of living and makes beauty of them. Every necessary work, no matter how menial, is an art, and every man and woman who finds joy in the work of shop or field is an artist, who elevates to the height of genius that which is regarded by the average person merely as a necessary task.

After all, the best things in the world are those which anyone can have for the asking. They are not native to any special locality or favored walk in life. The travail thru which the world is now passing may help to give us all a truer insight into what is really worth while.

* * *

We drove up to the back door of the farm house one cold evening in late autumn. The mother looked tired and overburdened with her manifold duties and the head of the house was hard at work in the stable finishing his task of milking 32 cows. The wind was raw and cold that evening, coming as it did from the bay to the eastward. The children shivered and rubbed numbed fingers as they finished filling the huge boxes with wood for the night.

We sat down to late supper of "boiled-dinner" hash, at a long table by the kitchen range, with no apparent evidence of flagging appetites. On the table were a variety of home-grown foods—fruits and vegetables and delicious bread made from home-grown and home-ground grain. After supper the mother began the task of getting the children to bed, while the father labored over the week's accounts, which showed a deficit of a little more than four dollars between the selling price of the milk and the market price of the grain fed the cows. It had varied, he said,

THE NEW WASHINGTON HATCHERY

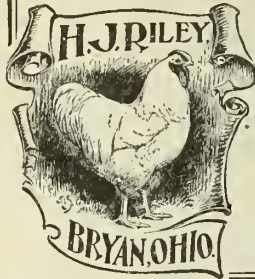
Can furnish pure bred Chicks of the finest quality

We ship big, strong, healthy baby chicks that LIVE. Hatched from healthy, vigorous, heavy-laying strains of utility and exhibition stock. All our birds are raised on free range, under most natural, sanitary conditions. Eleven years' experience in hatching and shipping chicks. Shipments guaranteed. Book your orders for early delivery. Be sure and get our 1918 catalog—FREE.

THE NEW WASHINGTON HATCHERY, Dept. C, New Washington, Ohio

RILEY'S WHITE WYANDOTTES

Won Best Display at the Chicago Coliseum Poultry Show, Dec. 1916



This, added to my record of six firsts, three seconds, two thirds at the Ohio State Fair the year before, proves their quality as breeders. They are bred-to-lay with the same care they are bred to win.

My 1918 Matings

are better and stronger than ever before. They include my 1st and 2nd cocks, 1st pen cockerel, 2nd pen cock at Chicago and my other winning males and females. Will sell you eggs from every pen I own. Eggs for hatching, \$3, \$5 and \$10 per 15. From \$5 and \$10 matings I guarantee 100 percent fertility, a chick in every egg, replacing every infertile egg returned to me. Some strong, sturdy, selected cockerels, exceptional quality for the price at \$5, \$7.50 and \$10. Write your wants and for catalog; it will pay you.

H. J. RILEY Box A BRYAN, OHIO

Guaranteed Extra Strong

BABY CHICKS

Poultry is not barred from the menu on meatless days, therefore the demand will be greater than ever. England's experience has taught that poultry and eggs are invaluable as food in these strenuous times. Help supply the demand by ordering of our vigorous, bred-to-lay, utility stock. Write for booklet containing prices and description.

Large Capacity—Quick Shipment

THE ELYRIA HATCHERY CO. Box A ELYRIA, O.



World's Best S. C. Black Minorcas

Two years in succession I won the \$50 cup for best collection at the American Black Minorca Club Show. For the last ten years at Canada's two greatest shows—Canadian National Exhibition, Toronto, and Provincial Show at Guelph. Stock direct from my yards, either by me or in the hands of my customers, have done most of the winning. Special low price to make an early clean-out.

T. A. FAULDS -:- LONDON, ONTARIO, CANADA

RILEY'S Barred Plymouth ROCKS

The hatching season is once more at hand, and as usual I will have mated up many fine pens. This past season many winners were shown by my customers, hatched from my eggs. I positively sell you eggs from my very best birds and pens, as my customer's records have proved. I have many fine Cockerels and Pullets, both matings, for sale. Send for my catalog and mating list, ready February 10th.

Henry D. Riley - Box B, Strafford, (Chester Co.) Pa.

Pure Bred Day-Old Chicks

America must grow more poultry this year so let us all do our bit. We will help you in your needs; we have free range stock. White and Barred Rocks, Rose and Single Comb Reds, White Wyandottes, Buff Orpingtons, Anconas, White and Brown Leghorns. Get our free catalogue.

Wolf Hatching & Breeding Co., Dept. B, Gibsonburg, Ohio

WHITE QUILL WHITE ROCKS WIN AGAIN

8 RIBBONS 8 on eleven entries, at the Milwaukee Auditorium, National Poultry Show, in a QUALITY CLASS.

My birds won—2d Cock, 1st, 5th Hen, 2d, 5th Pullet, 3d, 5th Cockerel, 1st young Pen, and Best Display. If you want stock, eggs, or Baby Chix, write me, I have the quality. Mating list now ready.

A. F. POLTL - - - HARTFORD, WIS.

You can get the American Poultry Journal 3 years for \$1



FIRST MINORCA COCKEREL CHICAGO COLISEUM SHOW DECEMBER 4th TO 9th 1917 - SHOWN BY McARTNEY FARMS BOX 375 GARDENA, CALIF.

and been tucked into bed and the clatter of the household subsided into the quiet of night, with only an even ticking of the great clock in the corner, the cheerful crackle of the fire and the song of the steaming teakettle on the range, when the insistence of tired Nature made herself felt and sleep was inevitable. The host expressed his disgust at recalcitrant lids which refused to stay open even tho his interest in the conversation was keen.

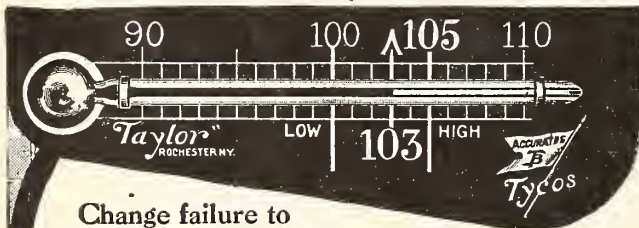
By ten o'clock we were all comfortably in bed and the long, low howl of the wind as it swept thru the trees and about the house searching crevice or keyhole in which to gain entrance, clattering at the blinds, beating against the chimneys, crashing limbs from creaking trees, whistled its weird warning of the long, cold winter about to follow in its wake.

A moment's quiet under the soft, healing influence of sleep, and again we are brought to consciousness by the clang and impatience of an alarm clock in a distant corner of the house. Following it are the unmistakable sounds of suppressed noises incident to early rising, the workings of a pump handle, the rattle of fire building, the opening and closing of an outer door, the sound of animated footsteps over frozen ground going toward the stable, a moment's flickering reflection on the wall from a lighted lantern—then darkness and quiet except for the never ceasing battling of the winds. Wrapped in a blanket we get out on the cold floor and take a look out at the darkness in an effort to gauge the time. Darkness everywhere. As yet no gleam of light to the east to herald the coming of day—just a round canopy of cold, forbidding sky pierced by innumerable shivering stars. Crawling back into the grateful warmth of a comfortable bed, we welcome its solace more than at bedtime.

Presently, the sun, an hour or two

from week to week, but for the last few months had shown a steadily decreasing loss notwithstanding the fact that his herd was favored by access to excellent pasturage up to the late cold snap.

At length the day's chores for the family were done, the toil of the long day was over, and we gathered about the fire to talk of other days. Scarcely had the last child said his evening prayer



Change failure to success! Tycos Thermometers are absolutely dependable. Each one severely tested before leaving the factory. You'll hatch out more chicks every time. Found in all the best incubators. Cost no more than "ordinary" thermometers, yet thoroughly accurate. Equip your incubators with them. Ask your dealer—or write us. Send for free booklet.

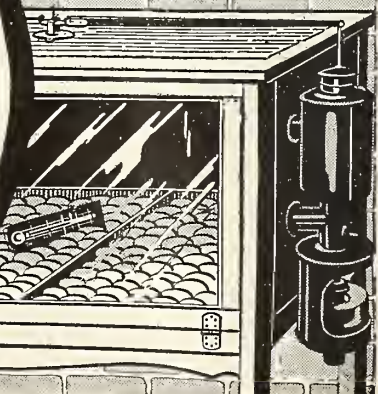
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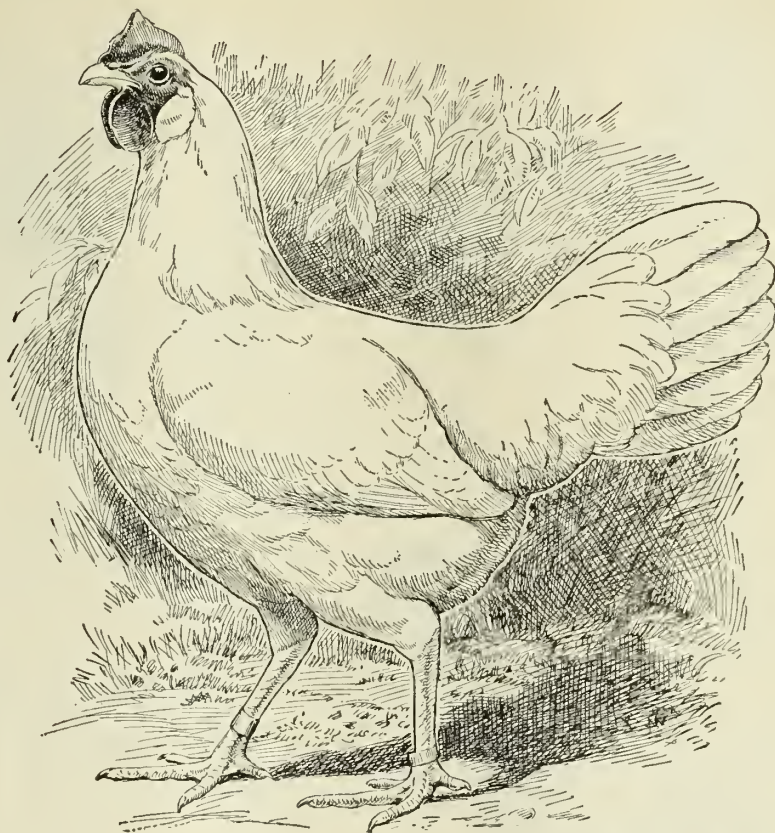
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Tycos

INCUBATOR THERMOMETERS





Lady Laymany
480 Eggs in
2 years

YESTERLAIDS ARE MONEY HENS

Profit is fixed in the blood of Yesterlaid Leghorns. It does not require expert care to make a success with them. A Yesterlaid customer from Massachusetts writes: "Eight of my Yesterlaid hens laid more than 200 eggs this year; here are their trapnest records: 200, 207, 216, 216, 219, 227, 230 and 232. Entire flock laying well. Eggs 73 cents wholesale, pullet eggs included."

Yesterlaid Single Comb White Leghorns are far superior to the average hen. They lay better in winter and cost less to feed. You can raise three Yesterlaid hens at the cost of two ordinary chickens, because they are vigorous, thrifty and quick-growing. Yesterlaid pullets lay enough eggs to pay their cost of raising before pullets from average hens begin to lay. They are big chalk-white eggs, hatch like popping corn and hand down superior vigor of the parents to the chicks.

Yesterlaid hens are supreme among Leghorns. This is evidenced by their constantly growing popularity, by reports from great numbers of pleased customers, and by the fact that twenty-four State Institutions and Experiment Stations have bought Yesterlaid hens.

Constitutional Vigor Insures Success

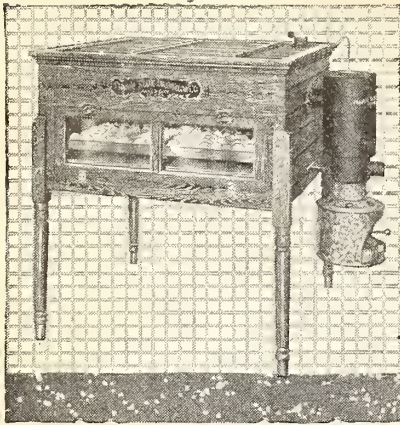
Careful, purposeful, selective breeding for vigor is the keynote of Yesterlaid's wonderful success. Buy Yesterlaid hens on the merits of vigor alone and you are sure to get what you want. Not a single female is used in Yesterlaid breeding flocks unless it is the unanimous verdict of Yesterlaid skillful specialists that she is perfectly fitted to reproduce her kind. These specialists are aided in their personal judgment of a breeding hen by the carefully kept records of the daily and yearly performance of the in-

dividuals, and of the flocks of Yesterlaid layers. Every Yesterlaid breeding pen carries the blood of hens that have laid 445 to 480 eggs in two years. The individuals in these pens are the result of more than a decade of diligent, painstaking study and breeding experience. They are pure line-bred Yesterlaid hens. They have never been out-crossed with English or other foreign blood. They rank high as show birds and breed true, generation after generation.

Yesterlaid prices are very reasonable — Cockerels, \$5.00, Cocks, \$10.00. Eggs — \$3.00 for 13 — \$5.00 for 26 — \$15.00 for 100 — \$140.00 for 1000. Baby chicks 30 cents each.

Valuable literature giving further details of how this wonderful strain of Leghorns has been developed — how it is fed and housed, will be gladly mailed to you free on request.

Yesterlaid Egg Farms Co. - Dept. 5 - Pacific, Mo.



Hatch Your Chicks "Nature's Way"

The hen sitting on her nest hatching eggs in "Nature's way" supplies a certain amount of humidity with her warm body and distributes a uniformity of heat over the nest with her feathers.

These two things, humidity and even heat distribution, are two of the most important essentials to the production of strong, vigorous, "Chicks that Live." Almost any machine will hatch eggs, but what percentage of chicks live? That's the rub—the chicks that live tell the value of the incubator.

The successful incubator must be built so as to scientifically follow "Nature's way" and properly supply these two important essentials in artificial incubation.

PRAIRIE STATE INCUBATORS

solved this problem years ago with the moistened sand trays and eddy current system of heat distribution.

That's why Prairie State machines are recognized as the most successful and dependable hatchers in the world. They are used in the majority of State Universities and Experiment Stations and are the choice of experts and successful poultrymen everywhere.

Let us send you our new Free catalog, giving complete information about the many superior features of the Prairie State Incubators and Poultry Equipment. Sizes 60 to 390 egg capacity. A postal brings book by return mail. Write for a copy today. (4)

PRAIRIE STATE INCUBATOR CO.
114 Main Street Homer City, Pa.

SIMPLEX GUARANTEED

Appliances for the poultry **FACTORY TO CONSUMER.** yard are sold direct from Automatic Feeders, Feather Brooders, Sanitary Fountains, Trap Nests, Grit Boxes, Feed Hoppers, Exhibition Coops, Incubators, Feather Hovers, etc., AT WHOLESALE PRICES.

The Leg Band for Your Chickens
50 for 25c
Any Size
No's. 1 to 50

We want you to get acquainted with our useful poultry appliances and for this reason we are offering 50 self-locking rust-proof leg bands—embossed numbers, 1 to 50, at the special price of 25 cents. Postpaid. State variety you breed when ordering.

SIMPLEX SUPPLY HOUSE Pontia Bldg. CHICAGO
SEND FOR COMPLETE CATALOGUE—WE SAVE YOU MONEY

DAY-OLD Chicks

With stamp of quality insuring Vigor and livability. Shipments Guaranteed up to 1,500 miles. White Wyandottes, Barred Rocks, White Leghorns, Buff and White Orpingtons, S. C. and R. C. Reds.

EGGS FOR HATCHING
at low prepaid prices. A postcard will bring you our 1918 catalog. Goshen Poultry Farms, R-12, Goshen, Ind.



high, touches our pillow with his penetrating and bestirring energy and we quickly get into cold clothing and hurry to the warm, moist atmosphere of the kitchen. The last child is being bundled off to school, buckwheat cakes are browning on a great old fashioned griddle and soon we are doing them justice. A motor truck filled with milk cans rumbles up to the back door and the man of the house comes in bringing a breath of the freezing temperature, beating his arms and stamping his feet to restore circulation.

We must make excuses for being so late to breakfast, but the host will have none of it and sits down beside us to stow away a great plateful of light luscious buckwheat cakes that melt in the mouth. As we urge more upon him, he laughingly replies, "This is my second breakfast. I had my first shift of cakes and coffee at six, before taking the milk to the early train."

After breakfast the mother goes to assist in the work of cleaning and sterilizing milk cans and dairy equipment—a task which requires a most careful and accurate knowledge of sanitation—while we luxuriate in wielding the dish-mop in steaming hot water. Five-year-old Richard scampers about the great kitchen chasing the cat. When the mother comes in there is the work of preparing the hearty midday meal. Vegetables dried and canned are brought from the well-filled cellar, chicken put up in a crystal jar last summer is opened ready for reheating. We repair to the cellar to see from whence come these stores. Row upon row of vegetables—corn, peas, beans of various kinds, tomatoes, beets, pickles; fruits from the earliest bearing to the last late picked quinces, in jellies, jams, marmalades, sauces, butters, preserves and whole canned. In another compartment lay great mounds of potatoes, beets, carrots, citrons and pumpkins. While on the south hillside from the house stretches a long, low mound, where one might dig out, on a thawing day, crisp, tender cabbages, like buried treasure.

When the dinner is over, there is no let-up in the day's activity. The men return to the fields where thousands of bushels of golden corn remain to be husked, where acres of brown buckwheat unharvested waves back and forth in the chilling breeze, gold tinged and beautiful, and as restless as the incoming tides of the ocean. On thru the day skilled hands, modern machinery and efficient minds work on the problem of conservation. The harvest is fair but the laborers are few.

Thus, by the never ending labor, the unflinching courage, the un baffled determination of the brave countrymen and women who wrest sustenance from the soil, the people of the cities are fed, clothed and have their being. Will there come a time in the not distant future when they will be willing to pay the price?

* * *

SPLIT PEA SOUP.

Wash one-half cup split peas and soak them in one pint of cold water over night. In the morning drain off the water and add one quart and a half of cold water, an onion and a piece of bacon rind of ham bone. Allow to cook slowly until the peas are soft. Season with salt, pepper and a liberal sprinkling



Get Ready For The "Big Batch"

Quantity production lowers the cost of production. That's why in recent years there is a demand for a brooding device which will rear chicks in "big batches" of from 100 to 1,000 or more at a time. To be worth its cost, a brooding device of this kind must be just as efficient as the small brooder and at the same time easily portable so as to be moved from place to place.

Taking all these conditions into consideration; after two years of careful research and extensive experimenting, we produced in 1914 the

PRAIRIE STATE STOVE BROODERS

Characteristic of this company, Prairie State STOVE BROODERS were not placed on the market until they had been THOROUGHLY TESTED under the most trying conditions and found to give complete satisfaction at all times. They are substantially built of cast iron because lighter material will not stand the wear. Burn anthracite coal, the best fuel for keeping an even fire. The flat construction of the canopy and the triple action regulator of our own exclusive design, give an even heat distribution that cannot be equaled by any other design of stove brooder. Adaptable to any style poultry house. Safe, sure and economical. Cost from 7 to 14c a day to operate. Built in 3 sizes. The PRAIRIE STATE is

The STOVE Brooder Sensation of the Season

Send for our FREE Catalog. Tells all about Prairie State Incubators, Hovers, Stove Brooders. Get our prices before you buy. Send postal today.



Prairie State Incubator Co.
114 Main Street Homer City, Pa.

We Won Display at the Great Chicago Coliseum Show

Single Comb Black Minorcas

December, 1917

which is the country's largest National Show, and probably the strongest Black Minorca National Show caged. Bred for winning, laying, weighing and paying. Free mating list tells you more. Eggs for sale from the best matings we ever put together.

ROYAL POULTRY FARM
OSSIAN Box 500 INDIANA

LIGHT BRAHMAS

WINNERS AT CHICAGO 1917
THE BIG KIND THAT WIN AND LAY birds that have standard type and color. The quality of my stock simply cannot be excelled and my prices for same are most reasonable.

Eggs for Hatching—Stock for Sale.
JOHN BLANCHARD Columbus, Wis.

of sage. Put the soup thru a strainer and thicken slightly with butter and flour if too thin. This makes a rich nourishing soup and may be made in quantity and kept for some time in a cool place.

* * *
CREOLE SOUP.

Put the contents of a pint jar of canned corn thru a food chopper and add to it a pint of water, a small onion and a bit of parsley and cook in a double boiler for half an hour. Strain and add one quart of hot milk. Thicken by adding two tablespoons of butter and the same amount of flour mixed together. Stir until smooth, season with salt and pepper, and add half a cup of cream just before serving.

* * *
CREAM OF ONION SOUP.

Put one tablespoon of butter in a double cooker and when hot add one cup of finely chopped onion. Continue cooking until the onion begins to be soft, then add a cup of broth made from bits of meat or the carcass of a fowl and two cups of milk. Season with salt and pepper and thicken slightly with butter and flour. Serve hot.

* * *
WAR TIME PUDDING.

Add one teaspoon soda to one cup sour cream and stir well. Pour into mixing bowl together with one cup molasses, one teaspoon cinnamon, a little grated nutmeg, one-half teaspoon salt, one cup chopped raisins, and one cup of bread crumbs. Sift in sufficient flour to make a soft dough and pour into steamer. Steam about three hours and

serve with cream or a good cream sauce.

* * *
DUTCH APPLE PIE.

Peel and slice good cooking apples into an earthenware dish. Sprinkle with sugar and add a few currants and seeded raisins. Add also the juice of

a lemon and a bit of the grated rind, a little ground clove and cinnamon and moisten with cold water. Cook in the earthen dish until soft. Line a deep pie plate with crust and fill with the cooked apple and cover top with rich crust. Bake brown and serve warm.



"THE DOUBLE PURPOSE GRIT"

To Make Your Hens Lay More Eggs

See that they are given a "balanced diet". The easiest way to do this is to mix

pearl Grit
Teeth and Tonic for Hens

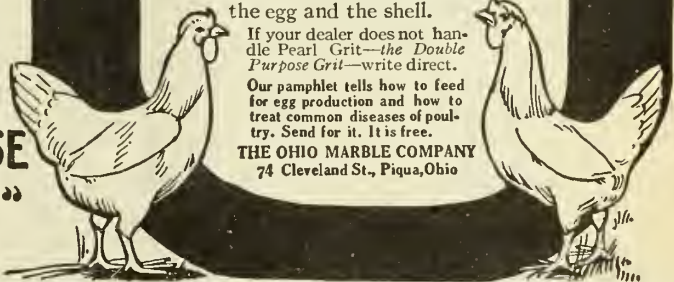
with their feed. Then they will have all the essential egg-making elements.

Pearl Grit enriches the food while grinding it and making it easy to digest. Its silicon, lime, and carbohydrates are needed to form the white of the egg and the shell.

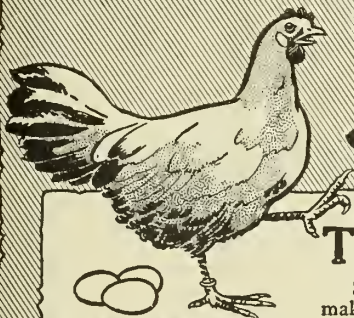
If your dealer does not handle Pearl Grit—the Double Purpose Grit—write direct.

Our pamphlet tells how to feed for egg production and how to treat common diseases of poultry. Send for it. It is free.

THE OHIO MARBLE COMPANY
74 Cleveland St., Piqua, Ohio



SUCRENE



The Low Cost Feed that Turns to Eggs

Sucrene fed hens work while others loaf. They are red-combed, healthy, vigorous, eager to make their daily contribution to the egg basket.

Sucrene Poultry Feeds Scientifically Correct

They are prepared according to formulas carefully worked out by our chemists, and proven to produce the desired results in our own experimental poultry yards.

Sucrene Poultry Mash is rich in meat scraps, palm kernel meal and alfalfa meal, the extra strong protein feeds. These feeds, combined with corn feed meal, corn distillers' dried grains, wheat bran, linseed meal, calcium carbonate and salt, supply the variety of nutrients for egg making and body building.

Sucrene Poultry Mash has a guaranteed analysis: 18% protein, 3 1/2% fat, 50% carbohydrates, 12% fibre. Also carries the necessary mineral matter.

Sucrene Scratch Feed is a combination of clean, sound grains—an economical, fully efficient cereal supplement to Sucrene Poultry Mash for growing or full grown poultry. For baby chicks Sucrene Chick Feed takes its place.

FOR WINTER EGGS Keep **Sucrene Poultry Mash** before your hens all the time, in hoppers to prevent waste. Supplement it twice a day with **Sucrene Scratch Feed**, the most practical combination of clean, sound grains obtainable in a balanced cereal ration—all food—no waste.

Sucrene Poultry Feeds are economical, even when grain prices are much lower, for they are correctly balanced feeds which can always be depended upon for highest results—every sack guaranteed of uniform quality.

Order a trial sack of Sucrene Poultry Mash and Sucrene Scratch Feed from your dealer. If he does not handle these feeds write us his name and we will see that you are promptly supplied. Fill out and mail us the coupon for full information, or write us a postal.

American Milling Company
Dept. 15 PEORIA, ILLINOIS
(16 Years America's Leading Mixed Feed Specialists)

Double Egg Yield in Three Weeks
Urbana, Ill., 9-22-17.
American Milling Co., Peoria, Ill.
Gentlemen: Enclosed find P. O. order for two 100-lb. sacks of Sucrene Scratch Feed. The use of Sucrene Poultry Mash and Sucrene Scratch Feed has doubled the egg yield of my hens in 3 weeks.
M. G. Kenworthy.



Please send me illustrated literature on foods checked below. (Dept. 15)

Sucrene Poultry Mash

Sucrene Scratch Feed

Sucrene Chick Feed

Dealer's Name.....

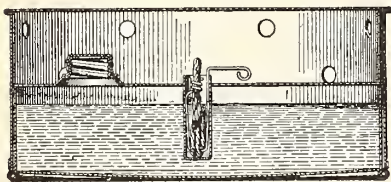
P. O.....State.....

My Name.....

P. O.....State.....

Recent Inventions for Poultrymen
By Lester B. Sargent, Patent Attorney, Washington, D.C.

A CHICKEN STOVE lamp has been invented by Israel Putnam, of Elmira, N. Y., which will burn for a long period without attention. It is used for preventing the drinking water from freezing. It has a centrally positioned tube extending into the oil reservoir, the wick being supported by a wire in spaced relation to the tube, so that an air space is left around the wick, from the mouth of the wick down to the level of the oil. The tube is



Chicken Stove Lamp, patented December 11, 1917, by Israel Putnam, of Elmira, N. Y. Patent No. 1,249,668.

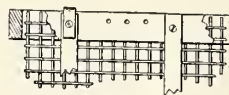
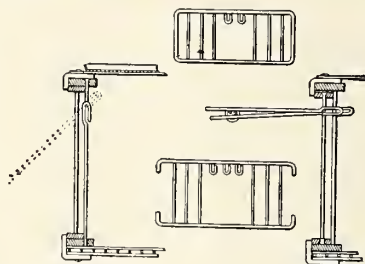
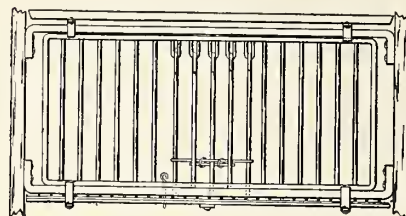
sealed at its lower end, but has a small opening thru it. Were the tube not closed at the bottom there would be a fire danger as soon as the oil reached as low a level as the bottom of the tube. The moisture that the flame generates and that accumulates within the tube can flow down to the bottom of the reservoir and collect on the bottom, where its freezing will not interfere with the normal flow of the oil and the proper operation of the lamp when it is used where it is extremely cold. Patent No. 1,249,668.

A new insecticide poultry roost has been invented by Mitchell E. Ryther and F. E. Hillery of Comanche, Okla. The principle of the roost is tubular, with spaced openings for the escape of fumes of the vermin-extermimating liquid which it contains. Its ends are flattened and of inverted L-shape to fit over the side bars on which the roosts are mounted. Patent No. 1,249,202.

A front for poultry coops invented by Joseph E. Wayne, of Huntersburg, Ind., has spaced vertical stationary bars on a fixed frame, and a plurality of movable bars on another frame adapted to be swung transversely. The connections between the movable bars of the two frames enable them to be swung as a unit transversely while per-

mitting independent movement of the movable frame. The advantage of this arrangement is that a coop may be adjusted to accommodate either large or small fowls by shifting the gratings as described. Patent No. 1,248,220.

Alice B. Bond, of Visalia, California, has invented a new heating and ventilating system for incubators and brooders. An electric lamp is used as the



Front for Poultry Coops, patented November 27, 1917, by Joseph E. Wayne, Huntersburg, Ind. Patent No. 1,248,220.

YOUNG'S STRAIN

Single Comb White Leghorns



FIRST PRIZE COCKEREL, BOSTON, 1915
BRED AND OWNED BY D. W. YOUNG, MONROE, N. Y.

∴ I HAVE NO OTHER BREEDS ∴

Add another phenomenal win at the Madison Square Garden Show, January 1st, 1918:

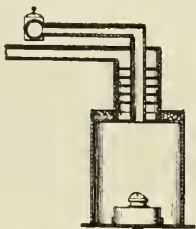
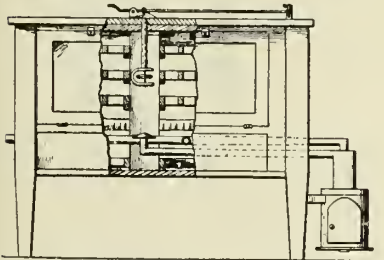
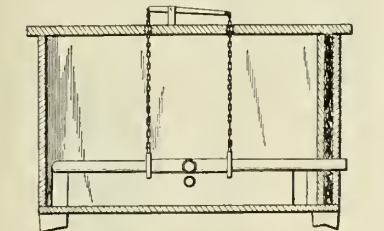
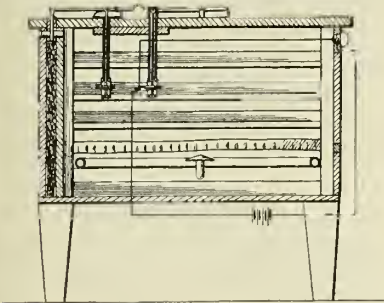
- 1-2-3 Cocks 1-4-5 Hens 1-3 Pens
 - 1-2-3-4 Cockerels 2-3 Pullets
- AND EVERY SPECIAL PRIZE OFFERED

The one strain that has made good. This is the eighteenth consecutive year that I have won best display and nothing less than 3 firsts and from that to every 1st, 2nd, 3rd, 4th and 5th. This is a record never accomplished by any other breed or breeder in the world. Young's Strain has outclassed itself in quality this season. My birds have never been so superb or shown such perfect health and form. They have won 1st prizes in every state in the Union and in every country in North and South America. This strain is acknowledged thruout the world as being the standard for all the Leghorns and the leaders of heavy layers. They have always been bred and selected for heavy laying alone and the show specimens have been chosen from the layers. This is the only original line-bred strain of utility and exhibition Leghorns in America today. Why not come to headquarters and get the best? Hundreds of grand cockerels that will improve your flock for utility and exhibition purposes for sale at reasonable prices.

MATING LIST—describing 65 pens and price of eggs—FREE

D. W. YOUNG Box E-12 MONROE, N. Y.

signaling element, this lamp being in circuit with and controlled by the thermostat. The novel features claimed in combination are a radiator having a discharge opening at one end, a heater casing from which a heat pipe extends to the radiator, there being air-moist-



Heating and Ventilating System for Incubators and Brooders, patented November 20, 1917, by Alice B. Bond. Patent No. 1,247,496.

ening means on the heater casing and an air heating drum above the air-moistener, a hot-air pipe communicating with the heating drum, a heat discharge pipe adjacent to the discharge end of

Poultry Patents Pay

Your invention if protected and developed may bring big returns. I make a specialty of poultry patents. Submit drawings or model. New booklet, "Pointers about Patents," free on request.

LESTER L. SARGENT
524 Tenth Street
WASHINGTON - D. C.

FERRIS WHITE LEGHORNS



FERRIS WHITE LEGHORNS FOR EGGS

Compare them with ordinary hens and you will understand why so many thousands of poultry keepers breed Ferris White Leghorns. Trapped for 18 years they have records as high as 264 eggs per year and their laying qualities are so well established that they will produce good results for you wherever you are located. All stock is bred for size, health and profit, and raised on free range with every care to produce perfect development. Thirty-five acres are devoted exclusively to White Leghorns and we raise thousands.

PRICES OF BREEDING STOCK

	From 230 to 264 Egg Stock	From 200 to 230 Egg Stock	From Good Utility Stock
1 cockerel	\$ 10.00	\$ 6.00	\$ 4.00
1 male, 4 females.....	30.00	18.00	12.00
1 male, 12 females.....	60.00	40.00	27.50
100 females	365.00	250.00	175.00

Now is the best time to buy. Shipment can be made in cold weather with perfect safety. Hundreds of choice cockerels, pullets and hens. See catalog for complete descriptions.

ALL STOCK IS SHIPPED ON APPROVAL. You can return within three days any birds not satisfactory and money will be refunded. (We will ship C. O. D. if you want to see the birds before paying for them. Send only \$1.50 for a pen of five, and 20 cents each for larger numbers to guarantee express charges.) We insure all stock for 30 days. Any birds that die or get out of condition will be replaced free of charge. Their breeding value is also guaranteed. Any male that does not produce fertile eggs, any hen that does not lay hatchable, good-shaped eggs will be replaced free.

PRICES OF 8-WEEK-OLD PULLETS AND COCKERELS

	From 230 to 264 Egg Strain	From 200 to 230 Egg Strain	From Good Utility Stock
1 cockerel, 4 pullets...	\$ 15.00	\$ 10.00	\$ 8.75
1 cockerel, 10 pullets...	30.00	20.00	16.25
50 pullets	110.00	80.00	65.00
100 pullets	200.00	150.00	125.00

We are now booking orders for 8-week-old chicks. At this age the pullets weigh 3/4 lb., and the cockerels about 1 lb., and we guarantee safe arrival anywhere in the United States or Canada. Catalog gives full particulars.

EGGS FOR HATCHING — PRICES FOR FEBRUARY, MARCH AND APRIL

	From 230 to 264 Egg Strain	From 200 to 230 Egg Strain	From Good Utility Stock
15 eggs	\$ 5.00	\$ 2.75	\$ 2.25
30 eggs	9.00	5.00	4.00
50 eggs	13.00	8.00	6.00
100 eggs	25.00	15.00	11.00
500 eggs	110.00	65.00	52.50
1000 eggs	200.00	125.00	100.00

We replace all infertile eggs free of charge, or if you get less than a 60 percent hatch we will replace one-half the eggs that do not hatch. We guarantee safe arrival anywhere in the United States or Canada.

DAY-OLD CHICKS — MARCH AND APRIL PRICES

	From 230 to 264 Egg Strain	From 200 to 230 Egg Strain	From Good Utility Stock
10 chicks.....	\$ 6.00	\$ 4.50	\$ 3.00
25 chicks.....	13.50	9.50	6.50
50 chicks.....	26.00	18.00	12.50
100 chicks.....	50.00	35.00	24.00
500 chicks.....	220.00	145.00	115.00
1000 chicks.....	400.00	275.00	220.00

We guarantee safe arrival anywhere east of the Rocky Mountains. See catalog for full descriptions. Our first hatch comes off March 5th. Our incubator capacity is 47,000 eggs, or over 10,000 chicks a week; but we advise placing orders as far in advance as possible, as we expect an unusually large demand.

1918 CATALOG IS FREE

Send for your copy today. It describes fully the stock, eggs and chicks quoted above. Contains photos showing 35 acres of White Leghorns; describes our methods of feed and care; how we improve laying qualities; list of winnings at 20 big shows; many letters from customers; prices of exhibition, breeding and laying stock, eggs for hatching and day-old chicks.

GEORGE B. FERRIS

Ferris Leghorn Farm 905 Union Ave., Grand Rapids, Mich.



Save the Babies



Don't hatch eggs or buy baby chicks until you are properly prepared to raise them

SUCCESSFUL HATCHES are of less value than total failures if the chicks do not live to maturity, as a failure in the hatch is far cheaper than a gradual diminishing of the brood thru leg-weakness, bowel trouble, diarrhoea, smothering, chilling or of any other affliction.

It is safe to say that 90% of these troubles are due to improper brooding.

Not only artificially hatched but also hen hatched chicks require proper care. Nature gave the hen feathers to protect her chicks but neglected to give the sense necessary to keep her from leading her brood into damp grass or sometimes deserting them.

Simplex Feather Brooders & Hovers

Combine Nature's Gift with Common Sense

They embody the use of natural feathers which have been thoroly cleansed, renovated and fumigated. The brooders are made in both artificially heated and fireless construction. The hovers are suitable to be placed in any old brooder and are just the thing for breeders having heated brooder houses. They are inexpensive, light, sanitary, easy to handle and easy to clean.

You will not only raise more chicks, but your chicks will be stronger and larger than chicks raised in the average heated brooder if you use Simplex Perfection Feather Brooders or Hovers.

Chicks cannot crowd in these feather brooders. They cannot chill or smother. They just seem as contented between the feathers as a cat behind a kitchen stove.

Don't take our word for it, but ask the folks who use them.

Simplex Feather Hovers are being used on some of the most successful poultry farms in the country since 1910.

SEND FOR OUR CATALOG. It will tell you all about these wonderful chick raisers, as well as our automatic baby chick feeder and other poultry appliances. Send today—it's free.

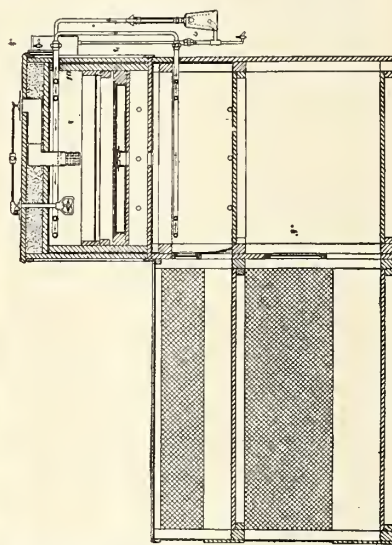
SIMPLEX SUPPLY HOUSE

Pontiax Building

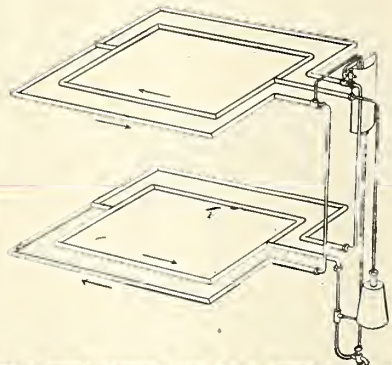
Chicago, Illinois

the heating drum at the center of the radiator, and a pair of communicating mechanically operated valves, one of which is in the radiator and the other in the heat discharge pipe, each, of course, being controlled by the thermostat. The heat and moist temperature required for proper incubation is evenly maintained, and the accumulation of foul air prevented by this arrangement. Patent No. 1,247,496.

An incubating and chicken raising apparatus (United States Patent 1,227,377) and a heating apparatus (United States Patent 1,244,061) for use in this incu-



Incubating and Chicken Raising Apparatus, patented May 22, 1917, by Leonard Bond, Glossop, England. Patent No. 1,227,377.



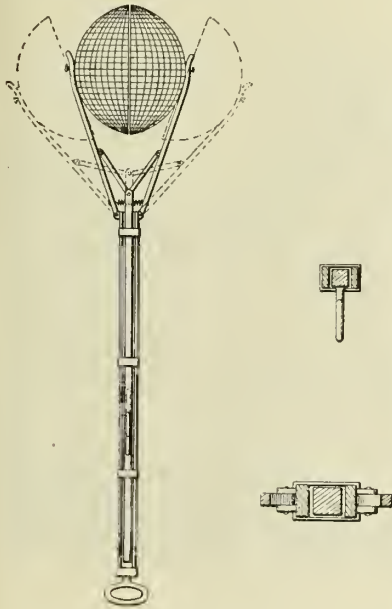
Photograph showing the Bond Incubating and Chicken Raising Apparatus.

bator, have been protected in this country by Leonard Bond of Glossop, England. The incubator has a nursery chamber with an outside run. The incubator is heated by hot water. Air ventilating inlets are provided at the lower part of each chamber, and a moisture pan is kept in the incubating chamber to furnish the necessary moisture. The hot water pipes are arranged in the upper part of the incubating chambers. The inventor has found that a convoluted pipe does not give off the practically uniform heat thruout its entire length, that has been claimed for it. In this new heating apparatus a more uniform degree of heat is obtained by the use of pipes that extend directly around the incubator and which are connected with each other, the water flowing across the incubator through the inner pipe and back through the outer

Armstrong's Single Comb Reds

Winners at Columbus, Dayton, Springfield and Ohio State Fair. If you want the best from an old established strain without paying inflated prices, send for our mating list describing these birds. Do it now. The price will suit you. R. T. ARMSTRONG, 378 14th Avenue, Columbus, Ohio

surrounding pipes. By providing this more direct passage the water does not have time to cool too much before it is returned to the tank to be reheated. It is claimed for the machine that it reduces the cost of hatching to the minimum. One thermometer regulates both the incubator and the brooder. Either gas or oil may be used as fuel. The device really comprises three machines in one—an incubator, a hot air brooder and a cool brooder, without an increase in the manufacturing cost.



Fowl Catcher, patented June 26, 1917, by Edward Bender. Patent No. 1,231,116.

One way of catching a skittish hen which perhaps has suspicions of the chopping block is to employ the fowl catcher patented by Edward Bender. This unusual device has two cup-shaped scoops carried at the end of pivoted arms which are hingedly attached to a long bar, which is slidably mounted within the handle and which has a grip at its outer end so that the pursuer may swing the scoops over biddy from some distance before she is aware of what is about to take place. Patent No. 1,231,116.

A poultry roost has been invented by Benjamin T. Bouma, of Lindville, Ohio, which has longitudinal channels containing strips of absorbent material extending the length of the roosts to absorb a vermin disinfectant and to retain it for a considerable period. Patent No. 1,236,705.

Been
At It
36
Years



P. H. SPRAGUE
Oldest Breeder of Rhode Island Reds in the West

Halbach's White Plymouth Rocks

prove their absolute supremacy again at the annual meeting of the American White Plymouth Rock Club at the

Greater Chicago Show, 1918

They swept away every record ever established by winning:

- 1-2-3-4 Cock
- 1-2-3-4 Cockerel
- 1-2-3-4 Hen
- 1-2-3-5 Pullet
- 1-2 Old Pen
- 1-2 Young Pen



First Pullet, Chicago Coliseum

Every special offered and grand championship best cockerel in entire American class. Never in the history of the poultry industry has such a complete, decisive victory been recorded. Every bird we showed a winner. It means that if you want the best you must come to us. Their heavy egg laying and quick growing qualities will mean your success. Just now we are offering special bargains in perfectly mated pens to start you right at \$25, \$35 and \$50 per pen of five birds. Prompt delivery and satisfaction guaranteed. Large catalog, 20 cents.

H. W. Halbach & Sons R. R. 1, Dept. A Waterford, Wis.



	Lots of 25	Lots of 50	Lots of 100	Lots of 500
R. and S. C. R. I. Reds	\$3.75	\$7.25	\$14.00	\$70.00
Barred Rocks (The Real Ringlets)	3.75	7.25	14.00	70.00
White Rocks	4.25	8.25	16.00	80.00
White Wyandottes	4.25	8.25	16.00	80.00
S. C. White Leghorns	3.50	6.75	13.00	65.00
S. C. Brown Leghorns	3.25	6.25	12.00	60.00

Prices for
February
and
March
Delivery

Write for our catalog today. It tells about our varieties, our manner of doing business, tells how to care for baby chicks, etc. Remember, our breeding stock is of good quality and contains many prize winners.

If interested in brooders, ask for our combination offer.

THORNWOOD POULTRY YARDS AND HATCHERIES, Dept. 123, CRANDALL, INDIANA

OLDEST BREEDER OF REDS

I have devoted my entire time to the poultry business since 1882—36 years. I have bred Rhode Island Reds longer than any other breeder west of New York. My stock is the best money, experience and careful breeding can produce. Everything that goes toward making fine Rhode Island Reds can be found in my flock. My birds have the type and color that is demanded by the leading judges of this country. My prices for eggs and stock are less than half what some others charge for same quality. One of my customers says: "The only difference between your eggs and the \$15 to \$25 kind is the price." My illustrated RED BOOK tells what I do and how I do it. 1918 RED BOOK NOW READY. FREE.

Hatching Eggs and Choice Cockerels for Sale
I Also Breed THOROBRED PEDIGREED AIREDALE DOGS

P. H. SPRAGUE

Near
CHICAGO

MAYWOOD, ILL.

FROM THE PACIFIC COAST

INCUBATION.

By CHAS. WEEKS, Palo Alto, Cal.

INCUBATION is as old as history. The ancient Egyptians knew how to hatch eggs by using artificial heat and the secret of incubation was handed down from father to son. The general public was ignorant of the laws of incubation and brought all the eggs to men who were professionals in incubation. The secret was guarded very carefully. So long did the Egyptians hatch eggs artificially that the little brown Egyptian hen lost her instinct to sit on eggs and to this day the Egyptian hen is a non-sitter.

The Chinese have also practiced incubation for ages. Their methods are very crude as compared to the modern self-regulating machines. They have

large thick-walled ovens in which they build a fire similar to the old bake oven of our forefathers. When the walls are well heated the fire is taken out and the temperature allowed to cool down to the correct degree. The attendant crawls into the oven thru the low, narrow door and places the eggs around the floors of the oven in

are wrapped up and taken out while another fire is kindled and the heat brought back up to the right point.

Today we have the modern self-regulating machine that makes it possible for anyone to hatch eggs. The instructions for operating and adjusting the machine come with each incubator and it is needless to take space for further directions. The best place to run an incubator is in a cellar or basement in which the temperature may be kept very regular. Do not attempt to run the machine in a room that is hot in the day and cool at night.

UTAH LEGHORNS

It is no longer necessary to send East for the best in

S. C. White Leghorns

We have the best that money can buy right here in Utah. I have some fine

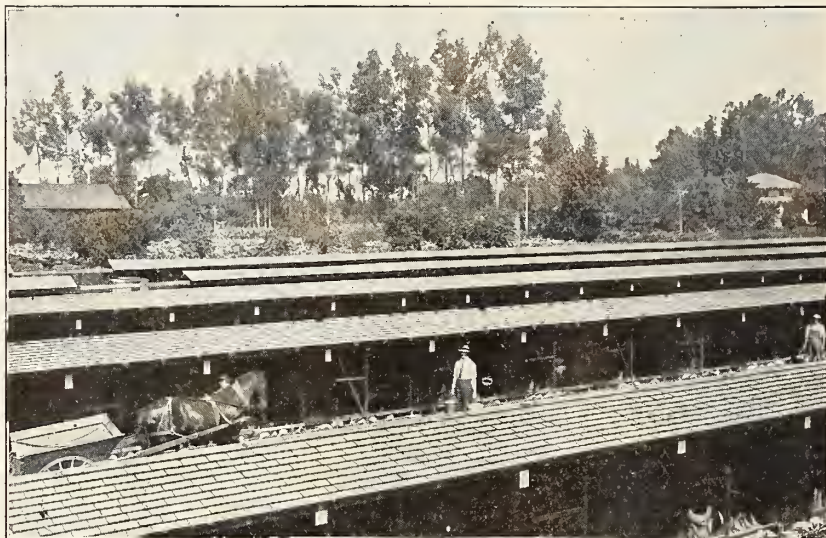
Show and Utility Stock

\$3.50 to \$25, and can please anyone. They win and they lay.

Eggs, Baby Chicks and Eight-Week Old Pullets in Season

If you don't want to order from this ad, write me your wants and send for catalogue.

EDWIN BRICKERT, BEAVER, UTAH



Poultry houses on Weeks Poultry Ranch, Palo Alto, California, one of the most intensive systems in the world.

baskets. They have no thermometers and tell the right temperature by long practice. The caretaker turns the eggs in this large oven, enduring the 103 degrees of heat while he works. When the temperature falls too low the eggs

Incubation is simply a mechanical process and the machine that is nicely adjusted and keeps an even temperature and ventilates without a draft will hatch good eggs if the attendant will do his part.

The first requisite in successful incubation is a good egg. The best incubators made will not succeed in hatching eggs from inferior stock. Too many poultrymen make the mistake of hatching eggs from immature hens. The hens intended for breeders should be selected from the earliest maturing pullets from the first hatches after the molting season.

Poultrymen are learning by costly experience that "any old egg" will not do for the incubator. If you have an egg with strong vitality and generations of hens behind that egg that have a superabundance of energy, then more than half of the incubator troubles are over, and I might add that nine-tenths of the brooder troubles are also over.

The egg should be placed in the machine as soon after laying as possible. The sooner the better. It is possible to hatch chicks from eggs one week, two weeks or three weeks old, but the older the egg the less chance of hatching a strong, sturdy chick. The germ in the egg grows weaker as the egg ages, and the food elements which are to nourish the germ become stale and unfit for food.

The yolk of the egg is enclosed in the body of the developing chick and is connected with its digestive system by a small duct which allows the yolk to be absorbed into the alimentary canal

Single Comb White Leghorns

WINNERS OF EVERY FIRST PRIZE
PANAMA-PACIFIC EXPOSITION

EXHIBITION AND FOUNDATION STOCK
LINE BRED AND TRAP-NESTED

Cock Birds at reasonable prices,
Breeding Cockerels—strong and vigorous.

Free descriptive Mating List, giving prices on Eggs
for Hatching, now ready. Write for one.

Acknowledged by Judges everywhere to have the
most uniform standard Leghorn type of any
strain in America. Bar none.

RANCHO DEL MARTINO

MRS. E. B. MARTIN

P. O. Box N DOWNEY, CALIFORNIA



FIRST PRIZE COCKEREL AND CHAMPION WHITE LEGHORN MALE
PANAMA-PACIFIC INTERNATIONAL EXPOSITION NOVEMBER 1915
BRED AND EXHIBITED BY MRS. E. B. MARTIN, DOWNEY, CAL.

McCartney Farms S. C. Rhode Island Reds S. C. Black Minorcas

We Breed "Top Notchers." Coliseum Show, Chicago, 1917, won 1st and 4th Cockerel, 1st Hen, 2d and 3d Pullet, 3d and 5th Cock. 1917 won 25 first prizes. Our birds have type, color and vigor. Eggs that will hatch strong, vigorous chicks; chicks and stock for sale. Send for catalogue. It is worth your while.

EGGS McCartney Farms R. F. D. No. 1 Gardena, California



Help Your Country Help Yourself

Raise the variety of poultry that lays the most eggs, takes the least room and trouble, consumes the least feed, and is therefore the *most profitable*. Practically everyone concedes this to be

S. C. White Leghorns



Eggs and Stock For Sale

from **Oak Dale Strain** of prize winning, heavy laying birds. We have the largest and best poultry farm in the Northwest and can satisfy your wants in any line.

**Our First Prize Young Pen at the
Great Minnesota State Fair, 1917,
was the Wonder of the Show.**

Write us your wants and send for mating list. We have the stock and eggs that will put your poultry account on the profit side of the ledger and make your stock sought for.

OAK DALE FARM

Farms, LeRoy, Minn.

Box A

Business Address, Austin, Minn.



IDYLWILD BABY CHICKS

S. C. White Leghorns

From Our Trap-nested, Pedigreed, High Record Stock

If you want a dyed-in-the-wool flock of layers, we earnestly solicit your order. Our stock is from the best blood lines of high record laying stock in the world, and size and constitution have not been sacrificed in breeding for eggs.

We do not compete with slip-shod hatcheries and breeders of ordinary stock. Our pleasure is in giving you full value for your money. We try to do more. Fifty chicks will furnish you flock headers for another year, improve your egg yield and give you some females for layers or breeders as you wish. It's a pleasure to raise Idylwild Chicks, for they have a way of living and growing. They dig in and work from the time they are hatched. Our business is mutual. You want some really good stock—we have it. Let's get together. One dollar invested in proven stock is worth five spent haphazardly. In buying chicks you are adopting the easiest and cheapest way to start a flock and produce good breeders. Remember that you can house, feed and care for three Idylwild Leghorns for the same money that you can take care of two ordinary chickens. The poultry business is on the verge of a big boom. Are you going to prepare to get your share?

EGGS FOR HATCHING

We also sell eggs for hatching in case you do not want baby chicks. Our eggs, stock and chicks are securely packed in the best method and will reach you safely. We guarantee 90 percent fertility on our hatching eggs.

Send for our handsome catalog and mating list.

IDYLWILD FARM W. S. POORE, Prop. SHERIDAN, ILLINOIS

Kendall White Orpingtons

Won at Chicago Coliseum Show, Dec., 1917

Six Prizes on Ten Entries!!

In the strongest kind of competition. This winning, together with past records, places the Kendall White Orpingtons in the front rank. A grand lot of birds for sale at prices anyone can afford to pay for good stock. Let me quote you prices. I can please you or no sale.

KENDALL ORPINGTON FARM H. F. KENDALL VIRGINIA, MINN.
Proprietor

Sensational Wins in Red Sussex

On five birds entered at Hamilton we won First Cockerel, First Hen, First, Second and Third Pullet. On thirteen birds entered at Guelph we won First, Second, Third and Fourth Hen, First, Second, Third and Fourth Pullet, First and Second Cockerel, Second and Fourth Cock. These birds were all from Mr. F. L. Pratt's stock and always won for him, and will continue to win for their new owner.

Thirty Cockerels and Pullets, Ten Yearling Hens for sale.

Write for our special offers for January and February

Kam Poultry Yard, 563 S. Syndicate Ave., Fort William, Ont., Can.

TARBOX'S Silver Wyandottes, Red and Speckled Sussex

Win Another Great Victory—At the Chicago Coliseum Show, Dec., 1917, they won 10 firsts, 9 seconds, 10 thirds, 5 fourths and 3 fifths, winning more firsts than all our competitors combined. We showed 66 birds in all and only 5 that were not placed. We have about 1,200 of the above breeds for sale. We need the room and the money; if you need the birds we will make you prices that will please you. Write your wants and get catalog.

A. & E. TARBOX . . . Box A . . . YORKVILLE, ILL.

Carbo Steel Building Frames

for all light buildings. Side walls and roofs may be wood, brick, sheet iron, or concrete on ribbed reinforcement. Require no foundation. Anyone can erect quickly poultry houses, incubator houses, granaries, garages, sheds, etc.

Carbo Steel Post Co. Department F Chicago Heights, Ill.

and thus the chick is nourished for the first three days after leaving the shell. If this yolk is overheated in incubation it is hardened so that it cannot be assimilated and the chick dies in from six to ten days from the poison of this decaying yolk. If the egg is kept too long before incubation the yolk decomposes and the chick is doomed to an early death from poison. Chicks from immature stock have not the vitality to digest even a good yolk, much less the chick feeds.

Place the eggs on the tray with small end down, leaning them so that the large end is the higher, keeping them in this position during the incubation period.

After the machine is warmed up and regulated to 102 degrees or thereabouts, place the eggs in and do not turn for three days. Then they can be turned twice each day, being careful to get them into the machine quickly up to the seventh day. After the first week let them air a little at first and increase the time of airing up to the time they begin to pip. At no time let them cool below 80 degrees and only once each day. I have had excellent hatches turning the eggs once each day but I think results warrant turning twice per day. The eggs should be tested on the seventh day and all the infertile ones taken out. Some test on the fourth or fifth day, but it is hard on the tender germ to remain out of the machine.

The temperature should be kept between 102 and 103 degrees and the steadier the better the hatch and stronger the chicks. Good eggs can very easily be spoiled by irregular temperatures. It requires exactness to incubate successfully. No careless person will ever succeed in incubation. The incubator should be placed in a basement or cellar where the outside temperature is very even. Never under any circumstances allow the temperature to go above 103 degrees, for every time it does the vitality of the chicks is weakened. One of the greatest faults with our modern machines is that they are slow in bringing the temperature back to 103 degrees after eggs have been aired. The temperature should rise quickly to 103 degrees after eggs are placed in the machines.

It cannot be impressed too strongly upon the amateur that an even, steady temperature brings best results. I do not believe in cooling the eggs until the germ is chilled, for this daily chilling of the germ is bound to weaken it. A slight airing may be beneficial and the cooling of the shell and the heating again may cause a contraction and relaxation of the fibrous tissues of the shell until the chick is more easily able to break thru because the shell becomes more brittle by this action. I know that it has been advocated that plenty of cooling enables the chick to hatch easier, but then if the after life of the chick is harmed by too much cooling it would be better that it never came out. There is still considerable difference of opinion in the matter of cooling eggs, some saying that extra cooling enables chicks to hatch easier and also makes them sturdy, but when we stop to consider that in no other instance is the foetal life of the germ allowed to vary in temperature during development, it seems

unreasonable. Wild birds exchange places in keeping the eggs warm continually. Also pigeons alternate their work during incubation period, not allowing eggs to get cool. The hen under domestication has no mate to help her out and is forced to do the incubation alone while her polygamous husband takes care of the harem. This necessitates that the hen either starve or go off the nest at periods for food, taking a chance that the tiny germ will stand the exposure until her return. The germ may suffer some from this exposure and on the other hand may also get used to this periodical cooling until it becomes a law in its development. Evolution is a wonderful thing and adaptation plays a great part in the unfolding of life.

The question of moisture is also a problem in artificial incubation. The egg contains enough moisture to carry it through the incubation period if we could get our mechanical heating devices so perfected that the egg would have practically the same conditions that it does under the hen. But it is hard to adjust the ventilation so as to get enough air and yet not dry the egg too much. An egg loses weight in the open air very fast. The ideal incubator would have an egress for the carbon-dioxide thrown off by the egg and yet have no draft. These conditions are hard to adjust. The egg wants a dead air space for incubation and yet have some way to get rid of the gases thrown off. In most of our artificial incubation moisture is supplied especially at hatching time. There should be enough moisture at hatching time to collect on the glass in front of the machine.

Incubation is, perhaps, the most unpoetic and monotonous work on the poultry ranch, yet it has its fascination at the hatching period when the chicks begin to kick out. It requires very patient, methodical work, with extreme care in regulating temperatures. Filling the lamps, trimming the wicks, cleaning the burners, regulating the flame is detail work that requires care. Turning the eggs carefully twice every day is a light task but takes time and it is a routine that leaves the mind free for thought. Your hands do the work while the mind is at liberty solving the many daily problems.

To sum up incubation, place only good, uniform eggs from mature stock in the machines, little end lowest. The temperature should be regulated to about 102 when eggs are placed in the machine, and run steadily between 102 and 103 degrees during the whole period.

Turn the eggs twice daily after third day and air slightly after first week, increasing time as germ grows older but never let them cool below 80 degrees. On the eighteenth day put moisture in the moisture pan. This should be steaming water so that the humidity is brought up in the machine.

A steady temperature is the prime factor in bringing out a good hatch. Eggs from sturdy stock of mature age with males and females unrelated will give best results. As the success of the egg farmer depends upon the vitality and laying qualities of the pullets, it is imperative that these conditions be adhered to.

Motto: "Quality and Bred-to-Lay"

"The Maples" Poultry Yards

Breeders of the

Sanborn Barred Plymouth Rocks

De Luxe Strain

OUR well known New England private fancier yards are devoted wholly to the breeding of Barred Plymouth Rocks of quality as well as the development of the consistent 300-egg hen. For the first time during our twelve years of experimental breeding, we offer to the public an opportunity of obtaining a limited supply of choice eggs of our "De Luxe Strain" for hatching purposes.

EGGS from our best matings, \$10.00 per setting; two settings, \$18.00; four settings, \$32.00. No more than four settings at this time to any one person.

"The Maples" Poultry Yards R. F. D. Concord Junction, Mass.

Hayward's White Rocks

Are fashion plates of White Rockdom. They are strong, vigorous birds raised under ideal conditions. Their high quality is attested by winning Champion male and Best Display at Boston in 1916, and again in 1917, in extra strong competition.

Every winner was bred and raised by me. Volumes could not tell a more convincing story of superior merit. If you want the best, you will obtain it in the Hayward Strain. Stock and eggs for sale at reasonable prices. Complete satisfaction guaranteed.

Illustrated booklet free.

W. F. HAYWARD

Box C

Westboro, Mass.



Champion at Boston, 1916

We Make

Runways	Portable Henneries
Trap Nests	Fireless Brooders
Brood Coops	Exhibition Coops
Colony Coops	Fattening Crates
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Write for Our Free Catalog of these coops, nests and many other articles. You will save money and get the best.

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Trap Nest

Scientifically Bred—Range Raised—Trapnested

S. C. White Leghorns

Exhibition and Utility

From pen gotten in 1916 customer raised 24 pullets averaging 225 eggs per year. Is getting from 45 hens and pullets an average of 25 eggs per day in mid-winter. **Breeding Cockerels** that will improve your flock at \$5.00 to \$10.00 each. Vigorous **Baby Chicks** at \$20.00 per 100, safe delivery guaranteed. Selected eggs for hatching at \$10.00 per 100 and up. Avoid disappointment by booking your order early. Catalogue free.

Satisfaction always

Fourche Mountain Poultry Farm

CUMMINS RATCLIFFE, Owner.

R. F. D. No. 11

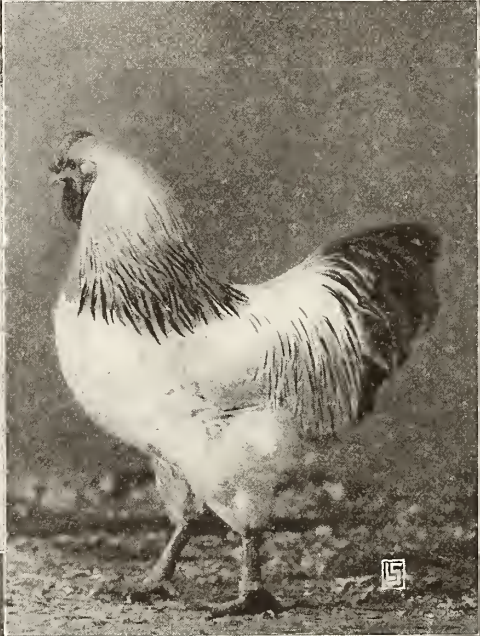
LITTLE ROCK, ARK.

American Laying Contest Winners!

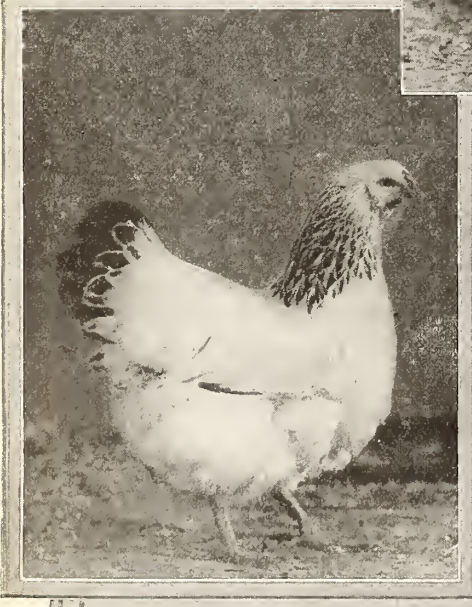
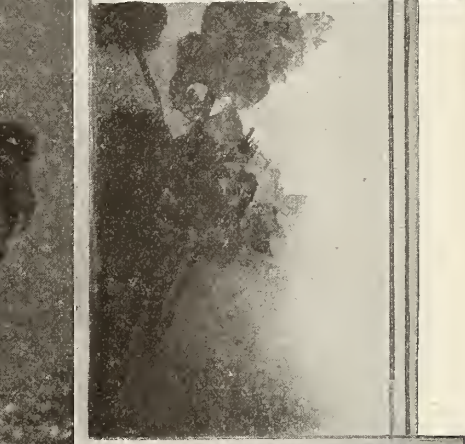
Brookside Wh. Wyandottes

Our pen No. 74 won first prize for highest egg production in the American Laying Contest at Leavenworth, Kan., which closed Oct. 31. They produced 1000 eggs, an average of 200 eggs per hen. Three of the hens scored 94, 93½ and 92½, showing that they combine beauty and utility. Hatching Eggs at very reasonable prices. Send for Catalog.

Brookside Farm G. W. SCHOTTMAN, Prop. Montrose, Illinois



FIRST PRIZE
 PEN
**COLUMBIAN
 WYANDOTTES**
 MADISON SQ. GARDEN
 NEW YORK-1917-18
 BRED AND OWNED BY
J.W.GARVEY
 THAYER
 ILL.



Madison Square Garden Show

(Continued from Page 154)

R. C. Brown Leghorns good quality; 3 cocks, 4 hens, 6 cockerels, 5 pullets, 1 pen.

S. C. Black Minorcas made excellent classes. Some specimens were a trifle coarse and some lacking in breast and knock-kneed. This fine old breed needs attention from some real fancier who will build up health and vigor points and work for improvement in breast and body as well as for finer head points. Classes included 6 cocks, 10 hens, 12 cockerels, 9 pullets, 4 pens. S. C. White Minorcas, 1 cock, 1 hen. S. C. Buff Minorcas, 3 cocks, 7 hens, 3 cockerels, 3 pullets. Moraine Farms entries in this

class were held up by transportation delay and did not arrive in time to be judged. R. C. Black Minorcas, 2 cocks, 2 hens, 4 cockerels, 2 pullets, 1 pen. R. C. White Minorcas, one in each class, except pen.

Blue Andalusians made an excellent showing; 3 cocks, 8 hens, 6 cockerels, 7 pullets, 2 pens. Prizes well distributed.

S. C. Anconas splendid classes and quality good; 12 cocks, 13 hens, 18 cockerels, 16 pullets, 5 pens. Altho the majority of the birds came from Ohio and Canada, they arrived in good season and were in fine condition. R. C. Anconas, 4 cocks, 4 hens, 4 cockerels, 5 pullets, 2 pens.

S. C. Buff Orpingtons were strong classes and showed 18 cocks, 18 hens, 21 cockerels, 16 pullets, 10 pens. Type and color good, with some fine birds in the ribbons.

S. C. Black Orpingtons made a good showing with 7 cocks, 8 hens, 8 cockerels, 8 pullets, 2 pens.

S. C. White Orpingtons a splendid exhibit of fine birds; 11 cocks, 12 hens, 17 cockerels, 12 pullets, 5 pens.

S. C. Blue Orpingtons, 3 cocks, 2 hens, 4 cockerels, 3 pullets. R. C. Buff Orpingtons, small classes. R. C. White Orpingtons, 2 cocks, 4 hens, 2 cockerels, 4 pullets, 2 pens.

Silver Grey Dorkings, good substantial old-timers down in excellent type and quality; 3 cocks, 4 hens, 3 cockerels, 4 pullets, 1 pen.

Dark Cornish, 10 cocks, 7 hens, 9 cockerels, 7 pullets, 4 pens. White Cornish, 2 cocks, 4 hens, 5 cockerels, 2 pullets, 1 pen. White Laced Red Cornish, 1 pen.



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Guaranteed Genuine Leather Pocketbook
The "American Bankroll"—1918 Model. Combination Billfold, Coin Purse, Card and Photo-case of Finest, Genuine Black Seal Grain Leather with the show and elegance of a Dollar Article for only 50 cents, postpaid, (\$5.40 per doz.) Any name beautifully engraved in 23-Karat Genuine Gold free (street number and city 20c each extra.) Iron-strong, yet wonderfully limp and flexible. Measures 3x4 1/4 inches folded. Has coin-purse, bill-pocket, photo or pass-window, 2 secret pockets, check book holder and 48-page Memo-Diary, brimful of interesting information, such as, first aid to the injured, interest calculation, weights and measures, legal holidays, postal information, health information, important dates and payments due, addresses and telephone numbers, bank deposits, memoranda, 12 months cash account, expense account, inventory and 1918-1919 calendars, etc. If unable to get money order or bank draft, send postage stamps. 12th annual catalog of high grade GUARANTEED LEATHER GOODS and NOVELTIES free with orders for "Bankroll" or sent alone for 10 cents postage.

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Baby Chicks

Barred and White Rocks, R. I. Reds and Brown and White Leghorns.

Good sized healthy chicks from good utility range, and full count, and safe delivery guaranteed.

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Baby CHIX

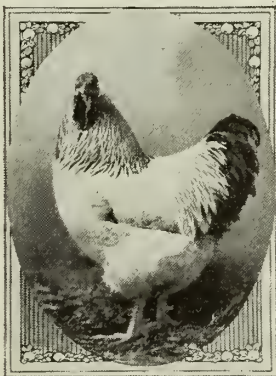
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Morse's White Leghorn Farm, Belding, Michigan

"Superior Strain"

Columbian Wyandottes

FIRST PRIZE WINNERS



Madison Sq. Garden, '18

- 1 Cock
- 3-5 Cockerel
- 2 Pullet
- 1 Pen

Chicago Coliseum, '17

- 2-4 Cock
- 1-5 Hen
- 3-5 Cockerel
- 1-4 Pullet
- 1 Old Pen
- 2 Young Pen

Chicago, '18

- 1-3 Cock
- 1-2 Hen
- 1-2-3-4 Cockerel
- 1-2-3-4 Pullet

My recent winnings at these two largest shows in America are conclusive proof that my strain has everything desired in this beautiful breed. Prominent judges who have examined my birds at these shows say that the markings are almost as perfect as they have been bred and shown by any exhibitor. The type to which I have been breeding my strain is recognized as correct and approaches very closely the Standard of Perfection. I have also improved the egg production and have individual records well over the 200 mark. As they have been bred that way for years, it stands to reason that this quality is inherited by the progeny and therefore I claim that the name of "Superior" which I have selected for my strain is a well fitting one.

Stock and Eggs for Hatching

from the finest matings in the country are now offered to those desiring fowls that are "profit producers." I have just added the entire flock of Columbian Wyandottes of the Wilburtha Farms, Trenton Junction, N. J. All their winners are in my yards. This magnificent strain added to my own gives me the largest and best flock of Columbian Wyandottes in the country.

The Quality is Exceptionally Good
The Prices I Ask Extremely Reasonable

Send for my free catalog and mating list giving full information.

J. W. GARVEY

Box A

THAYER, ILLINOIS





UNRETOUCHED
PHOTOGRAPH BY
L. A. STAMMER

WHITE LEGHORN
FIRST PRIZE COCK. MADISON SQ. GARDEN, 1918
bred and owned by
D.W. YOUNG, MONROE, N.Y.



UNRETOUCHED
PHOTOGRAPH BY
L. A. STAMMER

WHITE LEGHORN
FIRST PRIZE HEN MADISON SQ. GARDEN, 1918
Bred and owned by
D.W. YOUNG, MONROE, N.Y.

Not An Accident!

But the result of years of experience as a breeder along scientific lines is the unparalleled
WINNING AT MADISON SQUARE GARDEN, 1918

By the Famous

EVERLAY Brown LEGHORNS

Cocks—First; Second; Fifth.

Hens—Second.

Cockerels—First; Second; Third; Fourth; Fifth.

Pullets—Third; Fourth.

Pens—First; Fifth.



Best Display: More points than all other exhibitors combined in largest classes shown in years by the most representative breeders in the United States and Canada.

Last year defeated best North, South, East, West, winning three champion males, Chicago, Boston, New Orleans. Two champion females, Chicago, New Orleans. Two champion pens, Chicago, Columbus. Three firsts on cockerel same week, Chicago, Boston, Columbus. 23 females in winning same week, Boston, Chicago, Columbus. 14 males in winning same week, Chicago, Boston, Columbus. The EVERLAY Strain is America's foremost winning, laying strain, winning more championships, specials and regular prizes during the past 15 years, at more large shows, under more different judges, than any strain on the continent.

Show Birds Can Lay — Layers Can Win!

Mannsville, N. Y., January 15, 1918. Last year I purchased 50 eggs from you, hatched 34 chicks, 17 of which were pullets. They commenced to lay early in November. We have had very severe winter weather since December, still the pullets are laying splendidly every day.

G. R. Husted.

Cockerels—A few choice cockerels, birds that will stamp EVERLAY quality and ability on your flock, priced reasonable. Write your wants, please. Eggs from selected matings or in hundred lots shipped securely anywhere. Mating list.

H. V. TORMOHLEN

Box 2, PORTLAND, INDIANA



Day-Old Chicks

The purchase of day-old chicks is the best way to start a flock. You can purchase them all at once and have no trouble with a lot of broods of different ages. Our chicks are

Hatched from the Best Utility Stock

and they are strong and healthy—they stand the rigors of shipment and are full of "pep" when you take them out of the box. We specialize in S. C. White Leghorns, S. C. Brown Leghorns, Barred Rocks, R. C. R. I. Reds and Broiler Chicks, also a few trapnested S. C. White Leghorn Chix from 200-Egg Hens.

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Box 1

NEW WASHINGTON, OHIO

Ship Eggs and Day Old Chicks

15 Size Rippley Perfect Egg Box



Price
15 Eggs—\$1.75 Per Dozen
30 Eggs—\$2.75 Per Dozen
50 Eggs—\$3.50 Per Dozen

in Rippley Improved Boxes. Strong corrugated cardboard, will stand the weight of 5 men. **CHICK BOXES—Strongest and Best.** Indirect ventilating, no heat or cold, non-crowding. Ship safely any distance. Satisfaction guaranteed or money returned. Order from this advertisement. Sold in 1 doz. packages only. Sample 15 egg, or 25 size chick, 40c postpaid. Full line of poultry supplies at lowest prices. Send now for FREE BOOK.

Rippley's Perfect Indirect Ventilating and Non-crowding Chick Box
100 Size—\$5.00 Per Dozen
50 Size—\$4.00 Per Dozen
25 Size—\$2.50 Per Dozen



RIPPLEY MFG. CO., Box A1, Grafton, Ill., U. S. A.

S. C. Buff Orpingtons

Winners of 1st and 3rd cock, 1st pullet, championship and color special, shape special, 1st old pen, 2nd young pen, at Quincy, Illinois, 1917. Best display, champion female, shape and color special at Illinois State Show, 1917.

Stock. Baby Chicks. Eggs for Hatching.

D. L. WARNER

LITTLE YORK, ILL.

Speckled Sussex were excellent classes. Judging was delayed on account of non-arrival of a large part of exhibit. Moraine Farms birds shipped on Christmas day from Ohio did not arrive until the third day of the show and so were not judged. Classes included 9 cocks, 9 hens, 9 cockerels, 11 pullets, 6 pens. Other Sussex classes were small and some entries failed to arrive.

White Crested Black Polish classes were good and included 5 cocks, 6 hens, 6 cockerels, 7 pullets, 3 pens. Non-bearded Silver Polish, one in each class except pen.

Silver Spangled Hamburgs, 5 cocks, 6 hens, 6 cockerels, 5 pullets. Golden Penciled Hamburgs, 3 hens, 3 pullets. Silver Penciled Hamburgs, 1 cock, 1 hen.

Mottled Houdans good classes, excellent quality; 13 cocks, 8 hens, 9 cockerels, 10 pullets, 3 pens. White Houdans 3 cocks, 6 hens, 2 cockerels, 3 pullets, 4 pens. White Faverolles, 3 cocks, 6 hens, 1 cockerel, 1 pullet. Salmon Faverolles, one bird in each class except pen.

Silver Campines, a fine exhibit with quality of the best; 8 cocks, 9 hens, 15 cockerels, 11 pullets, 7 pens. A better and larger showing than last year. Golden Campines, 2 hens, 6 cockerels, 6 pullets.

Sicilian Buttercups made a strong showing; 5 cocks, 7 hens, 7 cockerels, 9 pullets, 4 pens. Lakenvelders, 4 cocks, 4 hens, 3 cockerels, 3 pullets, 1 pen.

Among the odd varieties were Russian Orloffs, one cockerel and one pullet of fair quality, which attracted a good deal of attention.

The turkey and water fowl exhibits were good, tho not as large as usual.

Following is complete list of awards:

Barred Plymouth Rocks—E. B. Thompson, Amenia, N. Y., 1-2-3-4-5 cock, 1-2-3-5 hen, 1-2-3-4-5 ckl, 1-2-3-4-5 pl, 1-2-3-4-5 pen. C. N. Myers, Hanover, Pa., 4 hen.

White Plymouth Rocks—Wilburtha Poultry Farm, Trenton Jct., N. J., 2-4 cock, 1-4 hen, 1-3-5 ckl, 1-2-4-5 pl, 1 pen. Starks Farm, Starks, Wis., 1-3-5 cock, 2-3-5 hen, 2-4 ckl, 3 pl, 3 pen. Mrs. R. H. Armstrong, Dunellen, N. J., 4 pen.

Silver Penciled Plymouth Rock—Monroe Bros., Monticello, N. Y., 1 cock, 1 hen.

Partridge Plymouth Rocks—Bird Bros., Meyersdale, Pa., 1-2 cock, 1-2 hen, 1-2-3 ckl, 1-3 pl, 1 pen. H. J. Roth, McSherrystown, Pa., 3-4-5 hen, 5 ckl, 2 pl. Monroe Bros., 4 ckl. Thos. O. Maxfield, Bloomfield, N. J., 4 pl.

Buff Plymouth Rocks—Daniel S. Riker, 161 E. 79th St., New York City, 4 cock, 1-4 hen, 3-4 pl. C. R. Baker, Abilene, Kan., 2-5 cock, 1 ckl. Vierheller Bros., Pittsburgh, Pa., 3 cock, 5 pl, 2 pen. James H. Vincent, Hazelton, Pa., 1 cock, 3 hen, 2-3 ckl, 1 pl. James H. Hertz, Hanover, Pa., 2-5 hen, 4-5 ckl, 1 pen. G. W. Wege, Hanover, Pa., 2 pl.

Columbian Plymouth Rocks—Monroe Bros., 2 cock, 2 hen. T. J. Enslin, Hackettstown, N. J., 1 cock, 2 ckl. Wilburtha Poultry Farm, 1 hen. Paul G. Springer, Bridgeton, N. J., 1 ckl. Geo. F. Leach, Cornwall, N. Y., 3 ckl, 1 pl. George Rea, Paterson, N. J., 2 pl.

R. C. Barred Plymouth Rocks—S. B. Wenger, South English, Iowa, 1 cock, 1 hen,

White Orpington Breeders

from Prize Winners

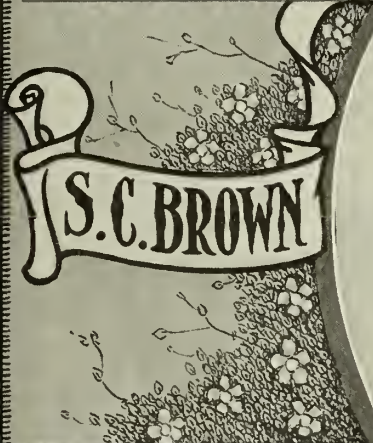
I have a number of fine breeders of the best blood lines, backed up by constitutional vigor developed by the right kind of raising, that I will dispose of very reasonably. Also a few exhibition cocks.

Hatching Eggs

It is not too early to place your order for hatching eggs if you want to make sure of getting them.

HARRY DICKEN

MANVILLE, ILL.



FIRST PRIZE PEN
MADISON
SQUARE
GARDEN
NEW YORK 1917-18
BRED AND OWNED
BY
H.V. TORMOHLN
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IND.



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America must grow more poultry this year. We will help by producing nearly

2,000,000 Chicks in 1918

Big, strong, vigorous chicks of unusual utility value and priced extremely low, quality considered. The great volume of business we do makes low prices possible. Our marvelous

Incubator Holds Forty Tons of Eggs

or 666,000, at once! Largest in America—best system of incubation ever devised. The air in the huge egg-chambers is completely renewed every three minutes and moisture furnished by live steam.

We ship any number of chicks. These breeds:

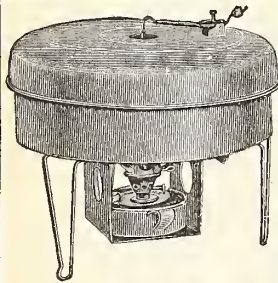
- | | |
|----------------|------------------|
| Barred Rocks | Black Minorcas |
| White Rocks | R. I. Reds |
| White Leghorns | White Wyandottes |
| Brown Leghorns | Anconas |
| Buff Leghorns | Broilers (Mixed) |

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Oakes Economy INCUBATOR

Steel throughout. Compact and light, occupies only 20 inches of floor or table space, 19 inches diameter, will hold 53 to 54 average eggs. Low in first cost and economical in operation.

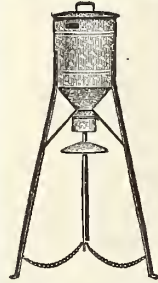
Oakes Automatic Exerciser and Feeder

Prevents waste, saves feed, increases egg production. Makes them scratch to get the grain—the natural way. Half bushel size \$3.75. One bushel size \$4.50 f. o. b. factory.

Both Oakes Quality

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Incubator & Brooder Supplies, Fixtures & Repairs. All metal parts for making new machines or repairing old ones.
Eastern Branch: 303 Pearl St., New York

OAKES ECONOMY ALL STEEL INCUBATORS



OAKES AUTOMATIC FEEDER AND EXERCISER

- 1 ckl, 4 pl. T. Brocklehurst, Lowell, Mass., 2 hen, 2 ckl, 1-2-3 pl.
- Silver Wyandottes**—J. Frank Van Alstyne, Castleton, N. Y., 1 hen, 2 ckl, 1 pl. S. H. Lumb, Toronto, Ont., Can., 2-3-4 hen, 2-3-4 pl. Frank P. Seaman, Mincola, N. Y., 3 ckl, 5 pl. Jas. F. Hughes, Peekskill, N. Y., 1 ckl.
- Golden Wyandottes**—Frank P. Seaman, 1 cock, 1 pl. Geo. F. Perkins, Jr., Jersey City, N. J., 1 ckl, 2 pl.
- White Wyandottes**—J. W. Andrews, Dighton, Mass., 1-3 cock, 3-4 hen, 3-5 ckl, 2 pen. F. B. Williams, Naugatuck, Conn., 5 cock, 1-2 hen, 2 ckl, 1 pl, 1-3 pen. T. A. Havemeyer, Mahwah, N. J., 4 cock, 1-4 ckl, 4-5 pl. Chas. Nixon, Washington, N. J., 2 cock, 2-3 pl, 4 pen. Allen C. Roberts, Parkers Ford, Pa., 5 hen, 5 pen.
- Black Wyandottes**—Ralph Roubesh, Hope, Ind., 1 cock, 1-2 ckl, 1-2-3 pl.
- Buff Wyandottes**—Elmings Farm, Greenwich, N. Y., 2 cock, 2-5 hen, 1 ckl, 1-2-3 pl, 1-2 pen. Chas. E. Metzger, Slattington, Pa., 3 cock, 3 ckl. S. A. Howland, Granville, N. Y., 1 cock, 3 hen. Andrew S. DeHaas, Middletown, N. Y., 1 hen. Wildwood Farm, Sayville, N. Y., 4 hen, 2 ckl, 4 pl. T. A. Martiu, Jr., Midland Park, N. J., 4 ckl, 5 pl.
- Partridge Wyandottes**—Minch Bros., Bridgeton, N. J., 1 cock, 4 hen, 2 pl. Sheffield Farms, Glendale, Ohio, 2-3-4 cock, 1-2-3 hen, 1-2-3 ckl, 1-3-4 pl, 1-2 pen.
- Columbian Wyandottes**—A. G. Warner, Whitesboro, N. Y., 3 cock, 1 ckl. Levi A. Ayres, Granville, N. Y., 2-5 cock, 1-3-4 hen, 4 ckl, 4 pl, 3 pen. Jas. W. Garvey, Thayer, Ill., 1 cock, 3-5 ckl, 2 pl, 1 pen. F. F. Wood, Sayre, Pa., 4 cock. Geo. L. Rogers, Scranton, Pa., 5 hen, 5 pl. C. C. Smith, Vineyard Haven, Mass., 2 hen, 2 ckl, 1-3 pl, 2 pen. Wilburtha Poultry Farm, 4 pen.
- Silver Penciled Wyandottes**—A. N. Hathaway, Abington, Mass., 1 cock, 1 hen, 1 ckl, 1 pl. E. O. Ricker, Scranton, Pa., 3 cock, 2 hen, 2 ckl, 2-3 pl. J. W. Holbrook, Malone, N. Y., 2 ckl.
- Barred Wyandottes**—Cauldalin Farm, Convent Sta., N. J., 3-4 cock, 2-3 hen, 1-2-3-4 ckl, 1-2-3 pl, 1-2 pen.
- Black Java**—Wm. H. Clum, Rahway, N. J., 1 hen.
- Dominiques**—Chas. W. Jones, Holmsdel, N. J., 1-3 cock, 2 hen, 2 ckl. Sunlit Poultry Farm, Montrose, Pa., 4 cock, 3 hen. Neal Litchfield, Freeport, Me., 2 cock, 1 hen, 1 ckl, 1 pl.
- S. C. Rhode Island Reds**—Chas. S. Hudson, New Baltimore, N. Y., 4 cock. F. W. C. Almy, Tiverton Four Corners, R. I., 1 cock. John E. Mack, Arlington, N. Y., 3 cock, 3 hen, 4 ckl, 2 pl. Onaway Farms, Wrentham, Mass., 2 cock, 2 hen. A. E. Alden, West Bridgewater, Mass., 5 cock. Owen Farms, Vineyard Haven, Mass., 1-4 hen, 2-3 ckl, 3-4 pen. B. McL. Quackenbush, Darien, Conn., 5 hen, 5 pl, 5 pen. John D. Hendrickson, Ridgewood, N. J., 5 ckl. Harold Tompkins, Concord, Mass., 1 ckl, 1-3 pl, 1-2 pen. J. De Ver Rogers & Son, Jr., Oxford, N. Y., 4 pl.
- R. C. Rhode Island Reds**—F. H. Stillwagen, Allentown, Pa., 1-3 cock, 5 pl, 4 pen. F. W. C. Almy, 2 cock, 1 hen, 5 ckl, 2 pen. Onaway Farm, 4 cock, 2 hen, 3 ckl, 3 pl, 5 pen. Harold Tompkins, 5 cock, 3 hen, 1-4 ckl, 1-4 pl, 1 pen. B. McL. Quackenbush, 4 hen. Upland Farm, Lee, Mass., 5 hen. A. E. Alden, 5 ckl. Pincroft Poultry Farm, Lenox, Mass., 2 pl. Dr. H. E. Cheesebrough, Greenwich, N. Y., 3 pen.
- Light Brahmas**—C. W. Everett, Huntington, N. Y., 2 cock, 3 old pen, 2 young pen. Daniel P. Shove, Fall River, Mass., 3 cock. Balch & Brown, Manchester, Conn., 1 cock, 1 hen, 5 pl, 3-4 young pen. Klee Bros., Blauvelt, N. Y., 4-5 cock, 3 hen, 4 ckl, 2 old pen. Harvey C. Wood, Bound Brook, N. J., 2 hen, 1-2-3 ckl, 1-2-3-4 pl, 1 old pen, 1-5 young pen. S. Edwin Megargee, Jr., Cranford, N. J., 4-5 hen, 4 old pen. S. S. Newton, Ballston Spa, N. Y., 5 ckl.
- Dark Brahmas**—Newton Adams, Utica, N. Y., 1-2 cock, 1-2 hen, 3-4 ckl, 1-2 pl, 1 pen. Henry O. Havemeyer, Mahwah, N. J., 1-4 ckl, 3-4 pl.
- Buff Cochins**—A. P. Ingram, West Chester, Pa., 1-2 cock, 1-2-3 hen, 1-2 ckl, 1-2 pl, 1 pen.
- Partridge Cochins**—Minch Bros., 1 ckl, 1 pl.
- Black Langshans**—Otto Cristoph, South Orange, N. J., 3-4-5 cock, 2 hen, 1 ckl, 3 pl. M. S. Barker, Thornton, Ind., 1-2 cock, 1-3 hen, 2-3 ckl, 1-2 pl, 1 pen. Warren T. Corbin, Bainbridge, N. Y., 5 hen, 4 pl. R. Innes, Bridgeport, Conn., 4 hen, 5 ckl. John A. Gamewell, Little Silver, N. J., 4 ckl. Peter J. Innes, Bridgeport, Conn., 5 pl.
- S. C. Brown Leghorns**—H. V. Tormohlen, Portland, Ind., 1-2-5 cock, 2 hen, 1-2-3-4-5 ckl, 3-4 pl, 1-5 pen. Rev. J. G. Taylor, Chatham, Ont., Can., 4 cock, 3-4 hen, 2 pen. Laurelwood Farm, Pequannoc, N. J., 3 cock, 4 pen. Rockfeller & Hubbard, New Haven, Conn., 1-5 hen, 2-5 pl, 3 pen. W. N. Dunn, Martinsburg, W. Va., 1 pl.
- S. C. White Leghorns**—D. W. Young, Monroe, N. Y., 1-2-3 cock, 1-4-5 hen, 1-2-3-4 ckl, 2-3 pl, 1-3 pen. Owen Farms, 4-5 cock, 5 ckl, 4 pl, 2-4-5 pen. W. H. Williams, Plainfield, N. J., 2 hen. Elm Poultry Yards, Hartford, Conn., 3 hen, 1 pl. Fred A. White, Calumet, Que., Can., 5 pl.

Day Old Chicks

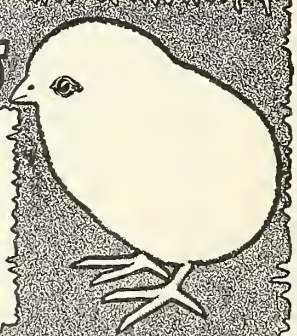
From pure bred, healthy, vigorous stock. Excellent for starting a pure bred flock or for improving the strain of an old flock. Send for our circular and pick out just the kind you want. We ship only strong, healthy, vigorous chicks of pure strain and true to name of breed. We also furnish eggs for hatching and guarantee safe delivery of both eggs and chicks.

Send for our circular and prices. Department LA 699

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Satisfaction Guaranteed or Your Money Back

CHICAGO KANSAS CITY NEW YORK



\$17 per 100 Baby Chicks \$17 per 100

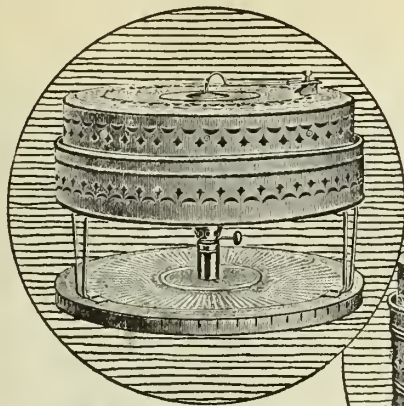
Properly hatched, absolutely healthy, thoroughbred Single Comb White Leghorn Chicks. From heavy laying, range raised hens that are guaranteed to be in perfect health. Scientifically mated to highly bred, thoroughly developed males, having heavy laying ancestors. 1200 hens are mated for day-old chick business. Eggs, \$7.50 per 100, \$3.00 per 30, \$2.00 per 15. Our sales of table eggs from our farm during the year 1917 in St. Louis alone exceeded 24,000 dozen.

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Jacobs' S. C. White Orpingtons

Have won from year to year at Indianapolis, Indiana State Fair and Chicago Coliseum. 1918 Mating List now ready and am booking egg orders.

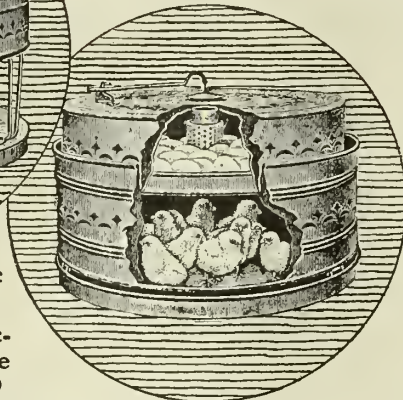
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and plenty of them—Big, Strong, vigorous chicks, ready to live and easy to raise



New Improved Hatchers Over Half a Million now in Successful Use \$7 and \$9

These points found in the Cycle will appeal to you—they are vital to success. First, the heated air is applied on top of the eggs only as under the hen. Second, no direct air passes thru the hatcher to carry off the natural moisture in the egg. Third, being circular with the lamp in the center, the radiation is equal throughout the machine. Fourth, the heat is brought close to the eggs with no waste of heated air space. The eggs are turned and cooled similar to Nature's way.

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Send for our new free catalog. It will give you many new ideas about poultry keeping and help you avoid wartime mistakes. Tells why the CYCLE is the best for you, and describes and prices the Philo System Ready-Built Coops, Supplies, and the Philo Business-Hen strain of White Orpingtons. Write for free copy today.

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"I have been using your machines and have been very successful with them, and when it comes to brooding the chicks your Brooder-Hatcher is certainly the best article I know of."
H. G. PEER, Syracuse, N. Y."

"For the past eight years I have been running from one to three of your Cycle Hatchers and think they are the best incubator and the least trouble of any made."
MRS. C. C. REDGRAVE, Lakeland, Fla."

— AT LAST A REAL —

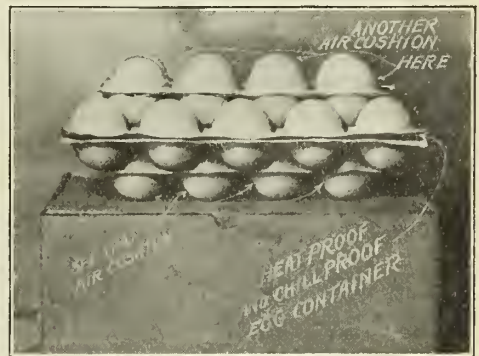
Safety Hatching-Egg Carrier



Note how each egg is carried in its own compartment, protected by air cushions at the top and at the bottom.

**Heat Proof
Shock Proof
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Don't waste your time shipping valuable hatching eggs the old-fashioned way when you can buy **Arminger's Safety Hatching-Egg Carrier**. The best thing ever invented for the purpose. All eggs are protected by air



cushions and suspended in individual compartments, thus preventing all of the eggs from getting soiled in case one of them should be broken. The carrier is constructed in such a manner that accidents of this kind can seldom happen. Made from non-conductive material and prevents eggs from getting overheated on account of being placed near steam pipes and likewise prevents them from being chilled if exposed to cold.

FANCIERS SAY IT'S THE BEST CARRIER EVER INVENTED

U. R. Fishel, the well-known White Rock breeder of Hope, Ind., who probably ships more eggs than any other fancier in America, is going to use them this coming season. J. C. Fishel of Hope, Ind., the White Wyandotte breeder, will also use them. Eugene Smith of Aurora, Ill., breeder of White Leghorns, has placed his order. C.R. Baker, Abilene, Kansas, has also placed his order. Russel F. Palmer of American School of Poultry Husbandry, Leavenworth, Kansas, says it's the best thing for the purpose, and what the fanciers have long been looking for. Artist Stahmer says: "The fact that I have taken the agency for your carrier to represent you at the poultry shows this season is sufficient proof that I consider your carrier the most perfect and safest ever placed before poultry fanciers of America."

They cost no more than others but are years ahead of them in safety

Write for circular giving complete instructions for packing and prices.

Elmer L. Arminger, 216 S. Water St., Chicago, Ill.



First pullet and first cockerel White Plymouth Rocks at Madison Square Garden, 1918. Bred and owned by Wilburtha Farm, Trenton Jct., N. J.

S. C. Buff Leghorns—L. E. Merihew, Marathon, N. Y., 2-3 cock, 2 hen, 5 ckl, 2-4 pl, 2 pen. Wm. E. Crevoiserat, Freeport, N. Y., 4-5 cock, Monmouth Farms, Freeau, N. Y., 1 cock, 1 hen, 2-4 ckl, 1 pl, 1 pen. Martin F. Fielder, Passaic, N. J., 4 hen. W. N. Watson, Sunbury, Pa., 5 hen. A. E. Jennings, Welch, W. Va., 3 hen, 5 pl. Glenwood Poultry Yards, Rutherford, N. J., 1-3 ckl, 3 pl. Interpark Poultry Yards, Buffalo, N. Y., 4 pen. Orange Poultry Farm, Manhasset, N. Y., 3 pen.

S. C. Black Leghorns—Turtle Point Farm, Saratoga Springs, N. Y., 1 cock, 4 hen, 3 ckl, 2 pl. R. G. Plucker, Warsaw, N. Y., 2 cock, 2 hen, 4 pl. Albert Bush, Jr., Scranton, Pa., 3-5 hen, 2 pen. Dundee Poultry Yards, Wilkes-Barre, Pa., 1 hen, 1 ckl. E. J. Wands, Cato, N. Y., 2-4 ckl. Mark E. Johnson, Atlanta, Ga., 5 ckl. Gerald B. Wadsworth, Hempstead, N. Y., 1-3 pl. Fred C. Nixon, Quakertown, N. J., 1 pen.

S. C. Silver Leghorn—Mrs. Edith L. Masten, Pleasant Valley, N. Y., 1-2 hen. H. B. Spangler, Freeau, N. J., 1-2 ckl, 1-2 pl.

R. C. Brown Leghorns—Wm. J. Liddell, Greenwich, N. Y., 1 cock, 1-2-3 ckl, 5 pl. Kerlin Farm, Pottstown, Pa., 2-3 cock, 3-4 hen, 3-4 pl, 1 pen. B. H. Smalley, New Canaan, Conn., 1-2 hen, 1-2 pl.

R. C. White Leghorns—Wm. E. Anderson, Rush City, Minn., 1 cock, 1 hen, 1 ckl, 1 pl.

S. C. Black Minorcas—Eagle Rock Poultry Farm, Hamilton, Mass., 4 cock, 2-3 ckl, 1 pl, 1 pen. Yama Farms, Napanock, N. Y., 3-5 cock, 1 hen, 4 ckl, 2 pl, 2 pen. L. S. Sherman, Pittsfield, Mass., 1 cock, 2 hen, 5 pl. R. H. Anderson, Lynchburg, Va., 2 cock, 3-4-5 hen, 5 ckl, 3-4 pl, 3 pen. Joseph Holt, Firthcliffe, N. Y., 1 ckl. Onondago Minorca Yards, Syracuse, N. Y., 4 pen.

S. C. White Minorcas—John A. Miller, Queens, N. Y., 1 cock, 1 hen.

S. C. Buff Minorcas—Edward J. Campbell, Cedarhurst, N. Y., 1-2 cock, 2-3 hen. J. A. & J. W. Conway, Malden, Mass., 3 cock, 1-4 hen, 1 ckl, 1 pl.

R. C. Black Minorcas—T. A. McKettrick, Hudson, N. Y., 2 cock, 2 hen, 3 ckl, 2 pl. H. A. Keister, Bangor, Mich., 1 cock, 1 hen, 2 ckl, 1 pl. J. M. Wilcox & Sons, Wilkes-Barre, Pa., 1 ckl. N. Y. & N. J. Poultry Farm, Orangeburg, N. Y., 4 ckl. Geo. W. Terwilliger, Milwood, N. Y., 1 pen.

R. C. White Minorca—G. H. Chase, Highland, N. Y., 1 cock, 1 hen, 1 ckl, 1 pl.

Blue Andalusians—E. D. Bird, Greenwich, Conn., 2 cock, 1-2 hen, 3-5 ckl, 2-3 pl, 1 pen. Harry T. Cotting, Rhinebeck, N. Y., 1 cock, 4 hen, 1-4 pl. Alfred Holmes Lewis, Congers, N. Y., 3 hen. V. H. Council, Warrenton, Va., 1-4 ckl. John MacCourtie, Winchester, Ont., Can., 5 hen, 2 ckl, 5 pl.

S. C. Anconas—Cole's Anconas Yards, Rhinebeck, N. Y., 1 cock, 4 hen, 2-5 pl. Harvey A. Glosser, Fort Plain, N. Y., 3 cock. H. Cecil Sheppard, Berea, Ohio, 4-5 cock, 1-2-5 hen, 1-2-3-5 ckl, 1 pl, 1-2 pen. J. H. Vandervort & Sons, Sldney Centre, N. Y., 2 cock. Frank C. Stier, Cleveland, Ohio, 3 hen, 4 ckl. Oscar G. Gies, Bridgeport, Ont., Can., 3-4 pl, 4 pen. Lester S. La Pierre, Millbrook, N. Y., 5 pen. H. Foxall & Son, Wilkes-Barre, Pa., 3 pen.

R. C. Anconas—H. Cecil Sheppard, 1-2-3-4 ckl, 1-2-3-4 hen, 1-2-3-4 ckl, 1-2-3-4 pl, 1-2 pen.

S. C. Buff Orpingtons—Joseph R. Seitz, Ridgefield, N. J., 1 cock. O. M. Bardwell, Westboro, Mass., 4 cock, 1-5 hen, 3 pl, 3 pen. Sunswick Poultry Farm, South Plainfield, N. J., 2-3-5 cock, 1-3-4 ckl, 2-4-5 pl, 5 pen. Hubbard's Peerless Buff Orpingtons, Lime Rock, Conn., 2 hen, 2 pen. Henrietta E. Hooker, South Hadley, Mass., 3-4 hen, A. E. Field-Marshall, Beamsville, Ont., Can., 2 ckl. Lucknow Farm, South Norwalk, Conn., 5 ckl, 1 pen. H. F. Hall, Morristown, N. J., 1 pl. Owen Farms, 4 pen.

S. C. Black Orpingtons—Silas H. Andrews, Mineola, N. Y., 5 cock, 1-4 hen, 4 ckl, 2 pl, 2 pen. Moore & Bowls Quality Farm, Fremont, Ohio, 1-2-3-4 cock, 2-3-5 hen, 1-2-3-5 ckl, 1-3-4-5 pl, 1 pen.

S. C. White Orpingtons—Jill Yards, Plainfield, N. J., 3 cock, 2 hen, 4 ckl, 2 pl, 5 pen. Quality Orpington Yards, Slatinton, Pa., 4 cock, 2-5 ckl. Morris Poultry Farm, Lebanon, Ohio, 2-5 cock, 1-4 hen, 1-3 ckl, 1-4 pl, 2 pen. L. F. Loree, West Orange, N. J., 1 cock, 1 pen. Owen Farms, 3-5 hen, 5 pl, 3-4 pen. Harry D. Games, Scranton, Pa., 3 pl.

S. C. Blue Orpingtons—H. W. Heineman, 59 Park Pl., New York City, 3 cock. Keo G. Stevens, Worcester, Mass., 1-2 cock, 1-2 hen, 1-2 ckl, 1-3 pl. W. A. Staebler, Gananoque, Ont., Can., 3 ckl, 2 pl. N. B. Hartman, Grantwood-on-Hudson, N. J., 4 ckl.

R. C. Buff Orpingtons—Dr. T. H. Smith, Knoxville, Pa., 1 cock, 1 hen, 1 ckl, 1-2 pl.

R. C. White Orpingtons—Glenwood Poultry Farm, Syracuse, N. Y., 1 cock, 1 hen, 1 ckl, 1-2 pl. Elm Poultry Yards, Hartford, Conn., 2 cock. Edward M. Preston, Baldwin, L. I., N. Y., 2-3-4 hen, 2 ckl, 3-4 pl.

Silver Grey Dorking—Watson Westfall, Sayre, Pa., 1-2 cock, 1-2-3 hen, 1-2 ckl, 1-2-4 pl, 1 pen. Sans Hill Farm, Huntington, L. I., N. Y., 3 cock, 4 hen, 3 ckl, 3 pl. Dark Cornish—Silas H. Andrews, 3 cock.



1st Hen, New York State Fair



1st Cockerel, Palace, '16

White Rock Supremacy

Wilburtha supremacy in this grand breed was clearly proven at the last Madison Square Garden Show where our White Rocks won 1st and 2d pen, 2d and 4th cock, 1st and 4th hen, 1st, 3d and 5th cockerel, 1st, 2d, 4th and 5th pullet. This is one of the greatest victories ever won in the show room. And every bird in this remarkable string was bred, hatched, raised and conditioned on Wilburtha Poultry Farms.

We now specialize exclusively on three great utility breeds:

**WHITE PLYMOUTH ROCKS S. C. WHITE LEGHORNS
S. C. RHODE ISLAND REDS**



Champion Cock, Palace

Our White Leghorns and Reds are bred to the same high standard of quality as our Rocks. We will gladly quote you on Breeding Birds for foundation stock of any of these breeds.



In 1st Pen, Madison Square Garden

Write for Mating List
TODAY

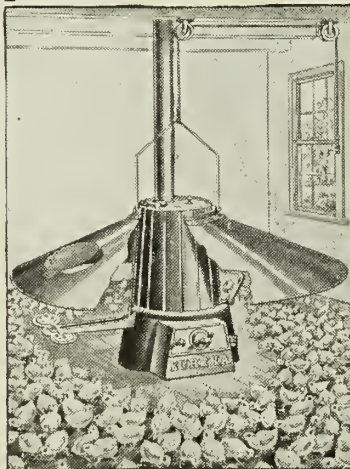
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Chicks and Hatching Eggs.

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is a brooder that I have absolute confidence in. I am a large manufacturer of stoves and make every part that goes into it. I eliminate useless expense. This brooder has a corrugated fire pot, is self regulating and is made of solid cast iron, burns hard coal or natural gas as desired. I honestly believe it will raise more chicks and better chicks at a lower cost and with less labor than any other brooder on the market. I have testimonials from many users of the Eureka Colony Brooder and will gladly send them, together with full information about the brooder, if you write today requesting same. Don't forget my honest offer, 30 days' free trial without costing you a penny. Write now for descriptive literature. AGENTS WANTED EVERYWHERE.

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Silver Penciled Plymouth Rocks

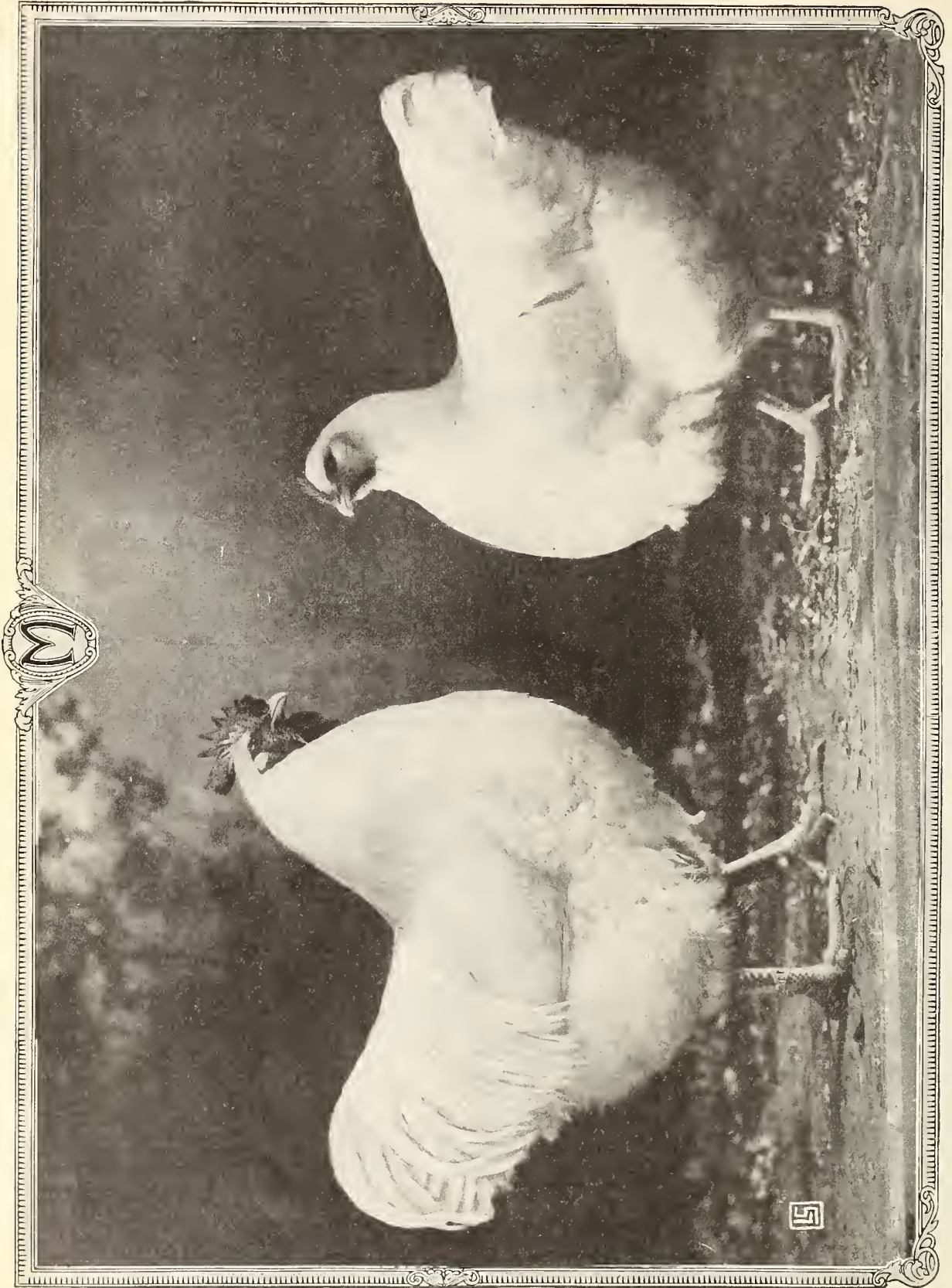
— BUFF, WHITE and BARRED ROCKS —

Winners at Chicago, New York, Boston, St. Louis, Illinois State Fair, 1917.

Silver Penciled Rock Stock for Breeding and Show purposes, for sale. Eggs from the finest pens in America. \$5.00 and \$3.00 per setting. Any variety. Catalog free.

PETER C. JUNGELS

LEMONT, ILLINOIS



First cockerel and first pullet White Orpington winners at Madison Square Garden, 1918. Owned by Morris Poultry Farm, Lebanon, Ohio.

Dr. J. Leslie Davis, Philadelphia, Pa., 2 cock, 3 hen, 2-5 ckl, 5 pl, 1 pen. Lynn H. Fitch, Clinton, N. Y., 5 cock, 4 hen. Wm. Pintard, Oceanic, N. J., 4 cock, 5 hen, 4 pl, 2 pen. Floyd P. Schuyler, Savannah, Ill., 1 cock. E. R. Scott, Dansville, N. Y., 1 hen, 3 ckl, 3 pl. S. T. Avent, Mottstown, N. Y., 2 hen. Mrs. Louis J. Fehr, Boonville, N. Y., 1 ckl, 1 pl. Fred H. Bohrer, Utica, N. Y., 4 ckl, 2 pl. Dr. W. A. Low, Cantonsville, Md., 3 pen.

White Cornish—Dr. F. H. Howland, Worcester, Mass., 1-2 cock, 2-3-4 hen, 1-2 pl. Woodcrest Poultry Farm, Radnor, Pa., 1 hen, 1-2-3-4 ckl. L. J. Smith, Deep River, Conn., 1 pen.

Speckled Sussex—B. O. Schilling, Rochester, N. Y., 4 cock. J. DeVer Rogers & Son, Jr., 5 cock, 1 hen, 3 ckl, 2-4 pl. Joseph Preece, Fort Washington, Pa., 3 cock, 1 ckl. Robert Essex & Son, Hamilton, Ont., Can., 1-2 cock, 2-4-5 hen, 1 pl, 1-2-3 pen. Guy F. Cleggman, Mineola, N. Y., 3 hen. Sheffield & Walker, Stamford, N. Y., 2 ckl, 5 pl. Buttonwood Poultry Yards, South Swansea, Mass., 3 pl.

Light Sussex—Oakwood Farm, Bedford Hills, N. Y., 1-2 ckl, 1-2 pl.

Red Sussex—Oakwood Farm, 1-2 ckl. Mrs. Annie S. Richardson, Ridgefield, Conn., 1 pen.

White Crested Black Polish—E. N. Gack-enbach, Allentown, Pa., 4 cock, 5 hen. Wendover Farm, Bernardsville, N. J., 2-3 cock, 4 hen, 5 pl, 2 pen. Old Oak Yards, Manchester, Conn., 5 cock, 3 hen, 5 ckl, 1 pl. Will J. Kelly, Cambridge Springs, Pa., 1 cock, 1-2 hen, 1-3-4 ckl, 2-3-4 pl, 1 pen. W. K. Newton, Greenwich, Conn., 2 ckl.

Buff Laced Polish—Forsgate Farm, Dunden, N. J., 1 cock.

Non-Bearded Silver Polish—Black Feather Farm, Dorchester, Mass., 1 cock, 1 hen, 1 ckl. Schriver & Burt, Groton, Conn., 2 ckl, 1 pl.

Non-Bearded White Polish—James Hendrie, Palisades Park, N. J., 1 cock.

Silver Spangled Hamburgs—Robt. Treat Paine, Waltham, Mass., 1 cock, 1 hen, 3 ckl, 4 pl. Durcos Farms, Walker Valley, N. Y., 4 cock, 3 hen. Otto Cristoph, 2 cock, 1 ckl, 1-3 pl. Chas. C. Grau, Corona, L. I., N. Y., 5 cock, 5 hen, 5 ckl, 2 pl. Dr. J. S. Wolfe, Bloomfield, N. J., 3 cock, 2-4 hen, 2-4 ckl, 5 pl.

Golden Penciled Hamburgs—C. N. Myers, 1-2-3 hen, 1-2-3 pl.

Silver Penciled Hamburgs—Ockers & Maasch, Sayville, N. Y., 1 cock, 1 hen, 1 ckl.

Mottled Houdan—Capt. C. E. Arnold, Babylon, N. Y., 3 cock. Dr. H. E. Dunne, Silver Spring, Mo., 1-4 cock, 1-3 hen, 1-3 ckl, 1-2-5 pl, 1 pen. Hillcrest Poultry Place, Phillipsburg, N. J., 2 cock, 2 ckl. Wm. C. Babka, Easton, Pa., 5 cock, 2 hen, 5 ckl. Wildwood Farms, Sayville, N. Y., 4-5 hen, 4 ckl, 3-4 pl, 2 pen.

White Houdan—H. F. Goemann, Grant-wood, N. J., 2 cock, 1 hen. Imperial Poultry Farm, Elizabeth, N. J., 1-3 cock, 2-3-4-5 hen, 1-2 ckl, 1-2-3 pl, 1 pen. Forsgate Farm, 2-3-4 pen.

White Faverolle—Orr & Burleigh, Orrs Mills, N. Y., 2 cock, 4 hen, 1 ckl, 1 pl. Gordon Spark, Sparkill, N. J., 1 cock, 1-2-3-5 hen. Geo. F. Leach, Cornwall, N. Y., 3 cock.

Salmon Faverolle—Buttonwood Poultry Yards, 1 cock. Jas. W. Patton, Hughesdale, R. I., 1 hen, 1 ckl, 1 pl.

Silver Campines—Homestead Campine Farm, Wayland, Mass., 3-4-5 cock, 2-3 hen, 1-2-3 ckl, 1-2-4 pl, 1-2-4 pen. The Mart-ling Henery, Ridgefield, N. J., 1-2 cock, 1 hen, 4-5 ckl, 5 pl, 2 pen. J. DeVer Rogers & Son, Jr., 4-5 hen, 5 pen. G. P. Cooper, Galt, Ont., Can., 4 pl.

Golden Campines—Caleb Hyatt, Yonkers, N. Y., 5 ckl, 5 pl. G. E. Snutch, 1-2 ckl, 1-2 pl. Roger S. Smith, Danbury, Conn., 3 ckl. Geo. B. Lawrence, Poughkeepsie, N. Y., 4 ckl. Henry Baumann, Corona, N. Y., 3-4 pl.

Black Red Pit Games—E. S., Jr., & M. H. Dixon, Ardmore, Pa., 3 cock, 2-4 hen, 5 ckl, 2 pl. Richard Markle, Bronxville, N. Y., 1 cock, 1 ckl, 1 pl. Wildwood Farm, 2 cock, 1 hen, 2 ckl, 4 pl. Greentree Poultry Farm, Manhasset, N. Y., 4-5 cock, 3-5 hen, 3-4 ckl, 2-5 pl.

Brown Red Pit Games—Wildwood Farm, 1 cock, 1 hen, 1 ckl, 1 pl, 1 pen. John H. Irwin, 235 Front St., New York City, 2 cock. **Blue and Blue-Red**—John H. Irwin, 1 cock.

Blue and Blue-Red Pit Games—A. M. Niese, Morristown, N. J., 1 ckl.

Pile Pit Games—Wildwood Farm, 1 cock, 1 hen, 1 ckl. **Gray and Birchen Pit Games**—Oak Cafe, Scranton, Pa., 2 cock, 2 hen. A. M. Niese, 1 cock, 1 hen.

Muffed and Tassel Pit Games—Richard Markle, 2 hen. A. M. Niese, 1 hen, 1 ckl, 1 pl.

Duck Wing Pit Games—Wildwood Farm, 1 cock, 1 hen, 1 ckl.

Hennie Pit Games—Wildwood Farm, 1 cock, 1 hen.

Round Head Pit Games—S. W. Loew, 2 Wall St., New York City, 1 cock, 1 ckl.

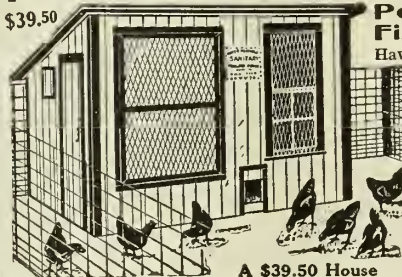
Claybourne and White Hackle Pit Games—Robt. D. Hartshorne, Seabright, N. J., 3-4 cock, 1-3 hen, 1-2 pl. Joseph L. Ferris,



DON'T KILL or sell your laying hens

Use the Potter System and pick out the layers from the loafers and diseased hens. Keep only healthy laying hens. The Potter System is a secret and the greatest discovery of the century in the poultry world on the subject of Egg Producing Hens. Used by over 50,000 satisfied poultry keepers who are saving dollars every year. Our new 100-page Potter System book, "Don't Kill the Laying Hen," contains the secret and knowledge about laying and non-laying hens. It's a revelation to poultry keepers, and you will learn how you can use the Potter System on your flock, keep less hens, get more eggs and make more money using it. Write today, sending two red stamps to cover postage on our large catalog and circular telling all about Potter Poultry Products made for Particular Poultry People. If you are particular and want to make more money on your flock, you will write us today.

DON'T BUILD You can buy better, cheaper, more complete ready (factory) made henhouses, roosting and nesting fixtures, coops, etc., from Potter & Co., because they buy lumber in carloads, cut and fit all parts perfectly by automatic machinery and deliver the house, coop or fixture you need in convenient sections all ready to set up.



No. 5, Style "D" Potter portable open front fresh air, scratch shed house, equipped with No. 17, Style "A" 5-foot 3-perch complete henhouse outfit for 30 hens. Price of complete house, \$39.50.

Potter Poultry Houses and Fixtures— Portable, Sanitary, Inexpensive

Have been on the market for over ten years and are used and recommended by thousands of poultry keepers who want the best and buy the best in poultry houses and equipment. You start right when you buy a Potter portable with complete outfit of roosts, drop board and nests. A clean, sanitary house means healthy hens and lots of eggs. The fresh air sanitary house shown here is only one of the twenty styles of houses and coops we make ranging in price from \$3.50 up and everything we make is absolutely guaranteed.



No. 19, Style "A," 6-foot 3-perch, complete henhouse outfit for 36 hens. This same style made in 12 sizes.

Send for Our Big Catalog

Contains 132 pages and over 150 illustrations showing Potter portable houses, coops, henhouse outfits, feed hoppers, brooders, hovers, feeds, etc.—in fact everything the poultry keeper needs to insure the greatest success. Catalog mailed for two red stamps to cover postage. Write for it today and save money.

POTTER & CO., 10 Forest Ave., Downers Grove, Illinois, U.S.A.

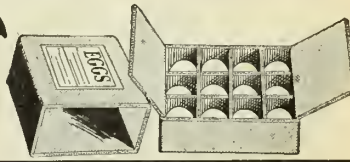


Day Old Chicks AND DUCKLINGS

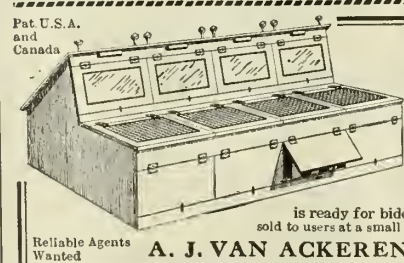
We furnish pure bred chicks of the finest quality. We only ship big, strong, healthy Baby Chicks that have hatched from healthy, vigorous stock. Some fifteen varieties of poultry, raised on different farms. Our White and Fawn and White Indian Runner Ducklings are of the best egg-producing strains. We also do custom hatching. Send for big free illustrated catalog at once. **J. W. Ossege Hatchery Dept. 6 Glandorf, Ohio**

Safety

Don't subject yourself to the annoyances arising from the use of improper shipping boxes and other supplies. Get acquainted with our big poultry supply house. We handle the very best and also give prompt service in



Improved Parcel Post Egg Boxes New Egg Cases New Flats and Fillers Oat Sprouters Leg Bands Poultry Remedies Etc., Etc. At the Lowest Prices Write for Our Free Catalog H. K. BRUNNER, Dept. M, 45 Harrison St., New York City, N. Y.



BIDDY'S FRIEND Hatcher and Brooder Coop TWO-IN-ONE COOP

The most convenient coop that has ever been offered to the poultry raiser. This coop enables you, with very little work, to take care of hens while hatching. When chicks are hatched, remove partition and the coop is ready for biddy and her chicks. It is a proof. Plans and Patent Right sold to users at a small cost. Special inducements during January. Write for circular.

Reliable Agents Wanted **A. J. VAN ACKEREN L. B. 107 CEDAR RAPIDS, NEB.**

White Orpingtons

Won at QUINCY one second and one fourth on four entries, besides remarkable winnings at Greater Chicago and other shows. We bought the flock of the late F. M. Springer, and possess some of the best birds in the country.

EGGS FOR HATCHING We have mated these grand birds in four pens, from which we will sell hatching eggs that will produce some great birds. They have the best of care and range, and produce strong, vigorous stock. Send for mailing list. All correspondence answered promptly. **MID-OAK KENNEL & Poultry Farm, J. B. KIMES, Manager, Route 4, Bloomington, Illinois**



First pen male, first and second hens, first pullet, second cockerel, White Wyandottes, at Madison Square Garden, 1917-18. Owned by F. B. Williams, Naugatuck, Conn.

Croton-on-Hudson, N. Y., 1-2 cock. A. M. Niese, 5 cock, 2-4 hen, 3 ckl, 1 pen. Wildwood Farm, 1-2 ckl.

Blue Crowns—F. F. Lendewig, Central Village, Conn., 1-2-3-4 cock, 1-2-3-4 hen, 1-2-3-4 ckl, 1-2-3-4 pl.

Silkies—W. Fred Roemmele, Richmond Hill, N. Y., 1 cock, 1 hen, 2 ckl, 2 pl. G. D. Tilley, Darien, Conn., 1 ckl, 1 pl.

Sicilian Buttercup—J. Harry Eddy, Saratoga Springs, N. Y., 1 cock, 5 hen, 1 ckl. Arthur D. Loper, Bridge Hampton, N. Y., 3 cock, 2 pen. Mrs. Hattie D. Reed, Marcellus, N. Y., 2 cock, 1-4 hen, 5 ckl, 1-3 pl, 1-3 pen. Hiddenhurst Buttercup Yards, Sharon Sta., N. Y., 4-5 cock, 2-3 hen, 2-3-4 ckl, 2 pl, 4 pen. Chas. J. Lieber, Homer, N. Y., 4 pl. Dr. M. A. Hansen, Osage, Ia., 5 pl.

Lakenvelders—Laura E. Osgood, Plainfield, N. J., 4 cock, 1 hen. Wildwood Farm, 1-2-3 cock, 2-3-4 hen, 1-2-3 ckl, 1-2-3 pl, 1 pen.

Pearl Guineas—Alex L. Dommerich, Greenwich, Conn., 1 ckl, 1 pl.

A. O. V. of Poultry—Dr. H. E. Dunne, 1 ckl (Silver Gray Houdans). F. F. Lendewig, 3-4 ckl, 2-4 pl (Crown White Leghorns). Harley E. Caldwell, 5 ckl, 3 pl (S. C. R. I. Whites). Dr. M. A. Hansen, 2 ckl, 1 pl (Russian Orloffs).

Bronze Turkeys—Alex L. Dommerich, 5 cock, 5 hen, 4 ckl. Matthew G. Rickey, Hudson, N. Y., 3 cock, 3 hen, 4 pl. One Spot Poultry Farm, Ossining, N. Y., 4 cock, 4 hen. Bird Bros., 1-2 cock, 1-2 hen, 1-2-3 ckl, 1-2-3 pl.

Slate Turkeys—Samuel Willets, Roslyn, N. Y., 1 ckl, 1 pl.

White Holland Turkeys—Geo. E. Cook, White Plains, N. Y., 1 hen.

Toulouse Geese—Maple Farms, 1 old gander, 1 old goose. Louis B. Schram, Brooklyn, N. Y., 2 old gander, 2 old goose. Sand Hill Farm, Huntington, N. Y., 3 old goose.

Emden Geese—Sarah A. Little, Waterloo, N. Y., 1 old gander, 1 old goose, 1-2 young gander, 1-2 young goose.

African Geese—Maple Farms, 1 old gander, 1 old goose, 1 young gander.

Wild or Canadian Geese—Alex L. Dommerich, 1 old gander, 1 old goose.

Pekin Ducks—Maple Farms, 1 old drake, 1 old duck, 2 young drake, 2 young duck, 1 pen. Wendover Farms, 2 old drake, 2 old duck, 1 young drake, 1 young duck, 2 pen. Alex L. Dommerich, 4 young drake, 3 young duck. H. L. Green, 233 Broadway, N. Y. City, 3 young drake.

Rouen Ducks—Louis B. Schram, 3-4-5 old drake, 1-3-4 old duck. Sheffield Farms, 1-2 old drake, 2-5 old duck, 1-2 young duck, 1 pen.

Colored Muscovys—Wm. I. Palmer, Granville, N. Y., 1 young drake, 1 old drake.

Blue Swedish Ducks—Palisades Duckeries, Sparkill, N. Y., 1 young duck.

East Indian Ducks—Palisades Duckeries, 1 old drake, 1 old duck.

Indian Runner Ducks—Thos. H. Mettler, East Millstone, N. J., 2 old drake, 1 old duck, 2 young drake, 1 young duck. F. T. Thompson, Washington, D. C., 1 old drake. Gaebel Bros., Morristown, N. J., 1 young drake.

Buff Ducks—Palisades Duckeries, 1 old drake, 1 old duck.

A. O. V. Ducks—Alex L. Dommerich, 1 old drake, 1 old duck (Mandarin); 1 young drake, 2 young duck (Mallard). Wendover Farm, 2 old drake, 2 old duck, 2 young drake, 1 young duck, 1-2 pen (Mallard).

Golden Sebright Bantams—Alex L. Dommerich, 4 cock, 5 hen. Daniel P. Shove, 3 cock, 4 hen, 2 ckl, 2 pl, 1 pen. Hanson Duval, East Islip, N. Y., 1-2 cock, 1-2 hen. Fred C. Keeney, Mahwah, N. J., 3 hen, 1 ckl, 1 pl.

Light Brahma Bantams—Carl H. Munkelwitz, Sayville, N. Y., 1 cock, 1 hen, 1 ckl, 1-2 pl.

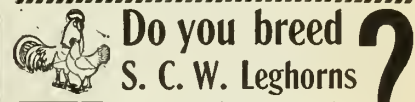
Silver Sebright Bantams—Hanson Duval, 2 cock, 2 hen. Frank W. Mains, Farmingdale, N. J., 1 cock, 3 hen, 1 ckl, 1 pl. Wm. H. Rogers, Oxford, N. Y., 1 hen.

White Rose Comb Bantams—W. Earle Cole, McGraw, N. Y., 1-2 hen. Albert B. Keeney, Mahwah, N. J., 1-2 ckl, 1 pl. John E. Dalton, Cortland, N. Y., 2 pl.

Black Rose Comb Bantams—E. N. Gackenback, 3-4 cock, 2-3 hen. Wm. H. Rogers, 1 cock, 2 ckl. W. Fred Roemmele, 2 cock, 1 hen, 1 ckl, 1 pl, 2 pen. Petrie & Stenford, Ossining, N. Y., 3 ckl, 2 pl, 1 pen.

Buff Cochon Bantams—Jas. H. Westcott, Rochester, N. Y., 1 cock, 3 hen, 2 ckl, 3 pl. Wm. H. Rogers, 2 hen, 2 pl. Wm. G. L. Marsh, Cold Spring Harbor, N. Y., 4-5 hen, 3-4-5 ckl. G. W. Wege, 1 hen, 1 ckl, 1 pl.

In justice to Aldrich Poultry Farm, Columbus, Ohio, Moraine Farms, Dayton, Ohio, and Huston & Hofius, South Charleston, Ohio, all of whom had birds entered at the Madison Square Garden show, it should be stated that none of the birds from these farms arrived at the Garden in time to be judged, therefore were not in competition. It should also be stated that when the birds did arrive they were in a badly frozen condition. The birds of Huston & Hofius, we understand, never did reach the Garden.



Do you breed S. C. W. Leghorns?

Would you like to have a fine catalog of your own, handsomely illustrated in colors, but find the cost too much? If so, send for a sample and prices of my special catalog for S. C. White Leghorn breeders. Catalogs in colors from \$7.00 up. THOS. NASH, 542 S. Dearborn St., CHICAGO, ILL.

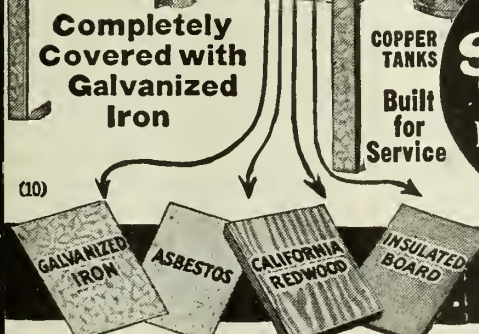
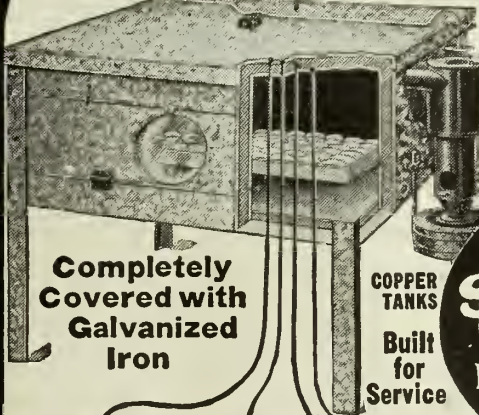
YOU TAKE NO RISK IN BUYING AN

Ironclad THE IRON COVERED INCUBATOR

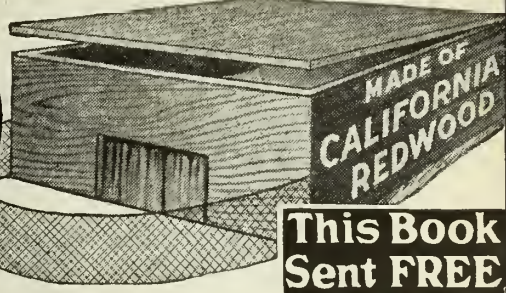
If you are going to buy an Incubator this year, it will save you time and money to order an Ironclad first. Why not own an Ironclad outfit when for only \$12.50 we guarantee to deliver safely, all freight charges paid (east of the Rockies) both of these famous reliable machines, fully equipped, set up ready for use.

We Give 30 Days' Trial Ten-Year Guarantee—Money Back If Not Satisfied

You have nothing to risk. We will send machines—let you use them 30 days—urge you to compare them in quality of material, hatching ability, workmanship and price—and if you don't find them satisfactory, send them back—we'll pay the freight charges and return your money. You are absolutely safe. We have to do as we advertise. If we didn't the publishers of this paper would not carry our advertising.



Both for \$12.50 Freight Paid East of Rockies



This Book Sent FREE

It tells how Ironclads are made. A valuable book for poultry raisers.

150 EGG INCUBATOR CHICK BROODER

When an incubator is constructed of material of this kind it gives you the strongest and most durable incubator that can be made—a machine that will not warp or shrink, or open up at the seams, as every joint is lapped over with our galvanized iron covering—giving you a machine that will last a life time. Don't class this big, galvanized iron covered dependable hatcher with cheaply constructed machines. Ironclads are not covered with cheap thin metal and painted, like some do to cover up poor quality of material. Ironclads are shipped in their natural color—you can see exactly what you are getting. Don't buy any incubator until you know what it is made of. Note these Ironclad Specifications: Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering. Galvanized iron legs, large egg tray, extra deep chick nursery—hot water top heat, copper tanks and boilers, self regulator, Tyco's Thermometer, glass in door, complete box of directions, and many other special features fully explained in free catalog. Write for it today or order direct from this advertisement and save time.



IRONCLAD INCUBATOR CO., Box 43 Racine, Wis.

NEW YORK
1918



5

PHOTOGRAPH BY
L. A. STAMMER, A. P. I.



SILVER CAMPINE
 FIRST PRIZE PEN MALE, MADISON SQ. GARDEN 1917-18
 BRED AND OWNED BY
HOMESTEAD CAMPINE FARM, WAYLAND, MASS.

DR. WOODS' NOTES AND COMMENT

(Continued from Page 176)

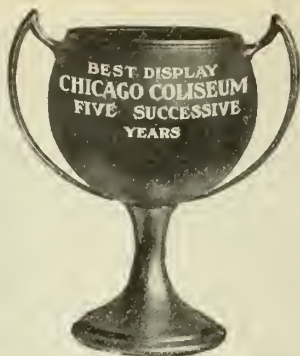
extreme cold weather the fowls were far more comfortable in such partly open buildings than in the cold, ill-ventilated, damp houses of the closed type. The open-front house has been indorsed as a comfortable and practical dwelling for fowls in bleak New England and in extremely cold locations in Canada. This winter has been a good test of the open-front house. We had the coldest December of record for forty years. We have had storms with high winds, heavy snow fall, and uncommonly severe and penetrating storms of sleet and ice. Thru it all our fowls, housed in buildings with always-open fronts, have been comfortable, healthy, happy and productive. We had a fine fall egg yield, with winter egg yield steadily gaining right down to date, January 11, and it has been cold enough to freeze milk in the farm house kitchen only a few feet from a very hot kitchen range—house banked up with pine needles in first-class shape too.

* * *

Labor on the poultry farm is a difficult problem today. No food producer can meet the competition in the labor market. With his poultry produce selling at prices which barely pay and sometimes do not pay feed costs, he is not in a position to make labor an offer which seems attractive beside the big pay for easy work and eight hours in other lines, to say nothing of double pay for overtime. Mighty few workers care to take a job on a poultry plant where there is work seven days a week, six of them calling for close to sixteen-hour days. And the labor that is not on deck for service by dawn in the morning and after dark at night is not of much use on a poultry plant during the busy season.

* * *

Prevent torn backs, a common injury of hens at this season. The toe nails, and sometimes the spurs, of the male are the cause. Blunt the spurs. Examine the edges of the male bird's toe nails, you will find them razor sharp. Use a knife to scrape them blunt. Do not cut into the quick.



BEST DISPLAY AT THE CHICAGO COLISEUM SHOW, on

Rose Comb Reds

has been won for

Five Successive Years by Longfield REDS

A record, to the best of our knowledge, never duplicated by any R. C. Red breeder at any National Show. Twenty of the first premiums at this great Red show in the past seven years have been won by us. Another record.

LONGFIELD REDS, the strain that comes back and wins year after year where the competition is strongest. Write for catalog, giving winnings in detail and our interesting guarantee of 15 chicks from each setting of our best eggs. A grand lot of birds for sale. Priced very reasonable.

Longfield Poultry Farm, Box 321 Bluffton, Ind.

EASY WAY TO GET EGGS

FEED OCULUM—SAMPLE (240 FEEDS) 10c—GUARANTEED

Experts Like Hawkins and Fishel Call it a "Miracle Worker"

I fed "OCULUM" to 48 Leghorns 24 days; eggs "OCULUM" doubled my egg yield in 23 days—jumped from 8 to 42 a day.

H. C. MILLER, Akron, Ohio, A. P. A. Judge.

Bottles 50c and \$1, Pint \$2.

We Make "OCULUM OIL" Too

It Quickly Relieves Sick Hogs, Sheep, Cattle and Horses.

"OCULUM OIL" saved a \$2,000.00 cow that had as bad a case of running off of the bowels as I ever saw, after all other remedies had failed.

G. H. SWEET, E. Aurora, N. Y., Where World Champions are bred.

Trial bottles 50c, pint \$1.50, delivered. Guaranteed.

Booklets Free.

This Journal O. K.'s us.

OCULUM CO. Box B Salem, Va.



BOOM!!

The bursting shells of American Chickdom presage victory for American arms if you do your bit, for "chickens may win this war."

Do it NOW by sending in your order QUICK before the great DRIVE is on. Prices for delivery after February 15, 1918, live delivery guaranteed:

- S. C. White or Brown Leghorns, per 100.....\$11.50
- Barred or White Rocks, S. C. or R. C. Reds, White Wyandottes, Black Minorcas and Buff Orpingtons, per 100 13.50
- Anconas, per 100..... 12.50
- Light Brahmas and White Orpingtons, per 100..... 15.00

Great Brooder Stove Offer. Catalog free. Stamps appreciated. **NABOB HATCHERIES, Box A, GAMBIER, O.**

Single Comb Black and Buff Orpingtons

won at the late Chicago Coliseum Show on Blacks 2nd cock, 5th hen, 4th cockerel, 3rd pullet and 2nd pen. Also won at the Iowa State Show on both Blacks and Buffs 6 firsts, 2 seconds and 1 fourth on singles and pens. If you want Orpingtons that win at the big shows and have the laying qualities, write me your wants. I have a grand lot of stock for sale.

O.M. BROWN Box G SLATER, IOWA

"A Chick in the Hand is Worth Three in the Shell"

You can buy Chicks this season from the ORIGINAL SCRANTON S. C. REDS



In response to popular demand and in line with our desire to give our customers fullest measure of satisfaction, we shall offer for the season of 1918 day-old chicks, as well as eggs from twenty superb matings—a real line-bred flock—winners in America's leading shows—producing each year outstanding quality in type, color, size, vigor and laying ability.

CHICKS—\$12 to \$35 per twenty-five, \$20 to \$60 per fifty, \$35 to \$75 per hundred. Ready to start growing lustily and become richly colored exhibition and useful Reds.

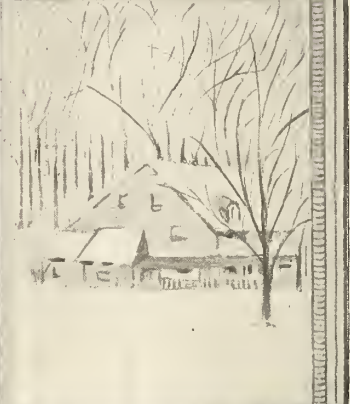
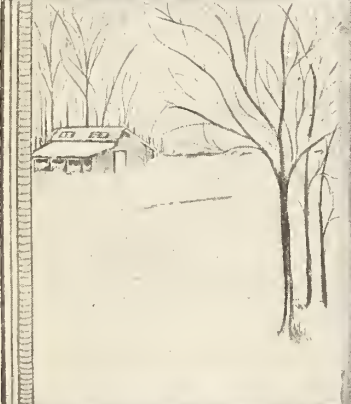
EGGS—\$3, \$5 and \$10 per fifteen, \$6, \$8 and \$18 per thirty, \$10, \$15 and \$30 per fifty, \$18 and \$25 per hundred. Everyone guaranteed new-laid and fertile, clears replaced, and if you wish to do your own hatching the surest promise of your ultimate satisfaction.

Our "Red Quills," the original Scranton S. C. Reds, are generally conceded to be the strain that most nearly approaches the desired combination of type, color, size, quick growth and laying ability. A prominent eastern fancier and pioneer breeder of Reds said of them: "It is the one truly line-bred strain in America." Why not stamp these qualities and the ability to reproduce them on your flock? Get your winners the way the other fellow gets his. Take advantage of the world-wide fame of these original Scranton Reds to get your share of the best sales.

Send today for baby chick and egg circular. Better still, get your order booked now direct from this ad and insure prompt and early delivery.

Remember, only the best wins. There is but one best. Get the "Red Quills" original Scranton S. C. Reds and be convinced.

RAU and FRY Route P Box 333-A INDIANAPOLIS, IND.



FIRST PRIZE PEN
 COLUMBUS, OHIO
 NOV. 1917
 NATIONAL
 ALL LEGHORN SHOW
 BRED AND OWNED BY
 HILLVIEW FARM
 LINCOLN
 MO
 ♂

THE GREAT BOSTON SHOW

Massachusetts "Goes Over the Top" With Its Annual Quality Show.—Fanciers' Exhibition and a "Life-Saver for the Business." *By Prince T. Woods, M. D.*

THE big Boston Poultry Show put the big B in business and went "over the top" with a fine fanciers' exhibition that more than one poultryman said should prove "a life-saver for the business this season." It was a war time show with a somewhat smaller list of entries than last season, but it was a big show, a show of good cheer, enthusiasm and good sportsmanship. It lived up to its reputation as a "quality show."

Governor Samuel W. McCall, in his official capacity as war governor of the state, attended the show on the evening of opening day and addressed the assembled fanciers and visitors on the importance of the poultry industry and the need of increased production the coming season. He said that he considered the Boston Poultry Show one of the biggest events of the year. That in Massachusetts two of the most important industries are dairy farming and poultry raising, very important to the state, as Massachusetts only produces about 25 percent of the food required by the inhabitants, and milk, poultry and eggs are foods which the state can and does produce in great quantity. He thought the poultry industry one of the most important and necessary in the United States, representing greater annual value in dollars and cents than the steel industry. He urged every citizen to keep

a war flock if possible. Said that there is much land suitable for poultry keeping and that every back-yard and every gravelly hill side could be turned into a veritable mine for food supply thru efficient poultry keeping. He thought that possibly some poultrymen might be a little extravagant in their methods of feeding and suggested that possibly just as good results would follow keeping the fowls on wholesome, plain boarding-house fare as attempting to keep them in the luxurious manner of the fashionable hotel. The audience, standing, gave Governor McCall three rousing cheers and a "tiger." At the close of the brief address, Secretary-Manager Winthrop B. Atherton piloted the Governor and his party on a personally conducted tour of the show, and we last saw them deep in the mysteries of "Barred Rock" undercolor, and heard the state's chief executive say, "I want to sell all the chickens, I'm interested in them."

As usual, this thirtieth annual exhibition of the Boston Poultry Association was held in the Mechanics' Building. The two big halls were attractively decorated and in spite of the fuel shortage were warm and cheerful. Opening day was one of rain and sleet, but the remainder of the week was unusually fine for January weather in Boston. The attendance was very good when one con-

siders the time and conditions and the fact that the drastic war regulations were put in force by the fuel administration during show week. The spirit of optimism was found thruout the exhibition halls and everybody seemed to be "doing his bit" to help out the poultry situation and to bring better business. It was evident that the "coldfeetos" had stayed at home and even when someone brought a little "gloom" after a "wheatless, meatless" dinner, the dark cloud simply could not linger in that cheerful, sunny place. Even "war bread" was powerless to cause its usual indigestion.

The displays by manufacturers and dealers in incubators, brooders, portable houses, feeds, and all sorts of poultry equipment, were fine and unusually attractive. There were plenty of incubators hatching and many brooders filled with sturdy baby chicks. There was abundant interest shown everywhere and the representatives of the press reported good subscription business.

Rhode Island Reds were probably the most sensational classes of the show. Hamburgs were wonderful classes and White Wyandottes were right on deck with both numbers and quality. The Plymouth Rocks, Barred, White, Buff, and Partridge made a strong showing, with quality good. Light Brahmans, Black Langshans and Buff Cochins were

MAJESTIC BUFF ORPINGTONS

Great Cockerel Sale
Now On!

At the Greater Chicago Show, 1918, I won gold medal for best display; have hundreds of cockerels, early hatched, sound in color and real Orpington type, all reared from my Chicago and New York winners. I have enough confidence in them to offer to ship C. O. D. if the customer wishes, and in any event am willing to pay the express both ways. Fine breeding and exhibition cockerels at \$5, \$10, \$15, \$20, \$25 and \$35. Order direct from this ad—I take all the risk. Cocks, hens and pullets at same prices, sold on same terms. Pens mated for best results in breeding. Order early. Nearly 100 customers were disappointed last spring.

"The Farm With No Dissatisfied Customers"

is our motto and we have lived up to it. This means a great deal to you. Write now for your copy of my 1918 mating list.

F. A. KAUP BUFF ORPINGTON FARM

Box 101

GLEN ELLYN, ILLINOIS

SUNSWICK S. C. BUFF ORPINGTONS

won at the 1917-18 Madison Square Garden Show, 2d, 3d and 5th Cock; 1st, 3d and 4th Cockerel; 2d, 3d and 5th Pullet and 5th Pen. Think what chicks from such Birds would do for your flock.

HATCHING EGGS

\$5, \$10 and \$20 per setting. \$20 per 100 Eggs.
75% fertility guaranteed.

Sunswick Poultry Farm

BABY CHICKS

50c, each for fine, sturdy youngsters.
Safe arrival guaranteed.

Get our 1918 Catalog and Mating List

Rufus Delafield, Owner, Tel. 549-J, Plainfield, Box J

BREEDING BIRDS

\$5 and up. Tell us your needs and we will give you personal service in selection.

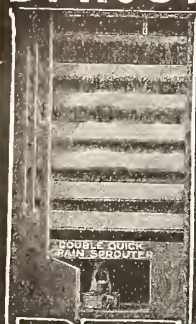
South Plainfield, N. J.

RUDY'S Perfection White WYANDOTTES

BABY-CHICKS

will help to cut the high cost of living. Chicks of ten leading varieties. A special combination offer on chicks and brooders. Notice—We have a branch Hatchery at Augusta, Kas. to take care of our Western orders. Don't fail to get our catalog and book your order. Huber's Reliable Hatchery, 317 W. Fremont St., Fostoria, O.

SPROUTED OATS—WINTER EGGS



The Vapor-Bath Sprouts produced by the Close-To-Nature machines possess an efficiency for prolific egg-production not found in sprouts grown the old way or in many so-called grain sprouters. A sweet, succulent, tender, edible, palatable sprout is grown in the Close-To-Nature Vapor-Bath machines.



Sprouted Oats From One Bushel Of Grain



CLOSE-TO-NATURE GRAIN SPROUTERS

Cut down the feed bill and run up the egg yield. Change high price dry grain into low price green feed. Make one bushel into three or four. The Close-To-Nature vapor-bath sprouters produce the succulent sprouts, the vegetable milk and the grape sugar that contribute to prolific egg production. The originators of the grain sprouter business and the largest sprouter manufacturers in the U. S., offer three kinds and many sizes from 1/4 bu. to 8 bu., for a few hens to 1,000.

The Double Quick

nomical and efficient sprouter ever put on the market.

the original sprouter, double walls, cy-press case outside, galvanized steel grain chamber inside—the most eco-

New Lamplless The All-Metal Sectional



for use in furnace room or other heated room. Trays slide, not stack up. Take out any tray without taking down stack. Drip pan with drain tube.

double walls, insulated, built on two bases, small base for back yard flocks, large base for farms. Add as many sections as needed.

Get our circulars giving full information on sprouted oats and eggs and 100 letters from our customers.



PRICE FROM \$4 to \$44

CLOSE-TO-NATURE CO.

38 Front Street

COLFAX, IOWA

FEEDING FOR EGG PRODUCTION

This is the Title of a small book we have just issued, written by H. L. KEMPSTER. By following this feeding system you can be sure of the best egg yield. It has plain tables for feeding and tells exactly

HOW AND WHAT TO FEED FOR BEST RESULTS.

Whether you keep ten hens or ten hundred, you cannot afford to feed them **HIGH PRICED FEED** unless they lay regularly, and this book tells you how to feed. A food that has material for **100 yolks** and only **25 whites** will mean that the hen can lay but **25 eggs** on that feed. The over-supply of yolks in that feed cannot be used and goes toward making fat rather than eggs.

This book not for sale, but given **Free** with 6 mos. trial subscription to **POULTRY KEEPER** at 25c. **POULTRY KEEPER** is the most helpful of Poultry magazines. It is practical. It is published for those who want to make **Poultry Pay**. It is

chuck full of money saving suggestions. Send 25c for Six Months trial subscription to **POULTRY KEEPER** and receive a copy of "Feeding for Egg Production" by return mail **FREE**.

Write Today **POULTRY KEEPER, Dept. 33 QUINCY, ILL.**

CARBO STEEL POSTS

UNIT SYSTEM cheapest, most durable, sanitary poultry fences.



Bolt together for rigid corner, gate or end posts. Use units singly for line posts or Carbo Drive Posts. First cost of post less than wood. Made any height. Write for Booklet Today.

STRONG LIGHT, SPRINGY STEEL

CARBO STEEL POST CO. Department C CHICAGO HEIGHTS, ILL.

QUALITY bred-to-lay Single Comb WHITE LEGHORNS exclusively.

Day-Old Chicks and Eggs — for — Hatching

Order now for spring delivery. Our quality and prices are right. Still have a few choice COCKERELS at prices that will interest you. Get our catalog and price list before ordering elsewhere. It is free. The ELLIOTT POULTRY FARM, - Route 7, Box 87, - Mansfield, Ohio



Speckled Sussex

Pedigreed Cockerels, Pullets and Eggs, bred for their laying qualities from prize-winning males and females at Madison Square, Chicago Coliseum, Palace, New York State Fair, Philadelphia, Keystone Poultry Association, Doylestown, and other shows. Bred first to lay, second as show birds, secured by trap-nested pens, hatched under hens from the best laying females, each egg marked when laid, giving number of hen and pen, duly branded with colored spiracles when hatched, and continued to full-growing birds. Write for prices.

T. CADWALLADER

DOYLESTOWN, PA.

the strongest and best of the Asiatics. White and Brown Leghorns and the Black Minorcas made a fine demonstration for the Mediterraneans. The Bantam exhibits made a fine showing and we were surprised to find that Bantam breeders were doing so good a business with demand close on the heels of supply.

The United States Department of Agriculture was represented at the show by husbandmen Harry M. Lamon and Robert Slocum. Massachusetts Agricultural College had a good educational exhibit in charge of Professors Graham and Luni, in co-operation with the representatives of the Federal Government. A part of the hall formerly used for utility exhibits was turned into a lecture room, where a poultry institute was conducted. Among the interesting posters found in the educational exhibit were the following:

EGGS

Cut down meat and make left-overs pleasing. Give the children EGGS to make rosy cheeks and strong bodies. Give the invalid EGGS, they give strength, they are easily digested, they offer variety.

* * *

EAT EGGS—WHY?

To supply building material and repair waste. Easily cooked. Save fuel. For flavor and digestibility cook at low temperatures.

* * *

A large placard recommended a standard chick feed as follows:

Fine cracked corn.....70 lbs.
Steel cut oats.....20 lbs.
Cracked wheat10 lbs.
If steel cut oats are not available, increase the cracked corn. To standard mashes add 100 lbs. of bran to each 300 lbs. of mash for chick feeding.

Display cages contained many exhibits of heavy laying strains, showing specimens with high trapnest records. Breeders of this class of poultry say that the demand is increasing for "bred-to-lay" fowl with certified "official" records and practically all of them reported good business and excellent sales, as well as satisfactory advance bookings for hatching eggs and baby chicks. Apparently the laying contests are creating a strong demand for stock that is backed by the "official" trapnest record. The owner of the champion of the Storrs' laying contest was reported as refusing an offer of \$5 each for the eggs from this hen. There were also many bidders for an exhibit of White Leghorns, with high "official" records, but no sale was made at the time we were present, altho the price offered was an attractive one.

At a meeting held during the show by the Boston Poultry Association and many exhibitors, the poultry and feed situation was discussed and the following resolution unanimously adopted to be sent to the Food Administration at Washington:

"Where as, we are informed that there are in the United States, especially in the West and Middle West, large quantities of corn, which are in danger of being spoiled because of insufficient drying.



You Can Get Twice As Many Eggs From the Same Flock and the Same Grain When You Feed MILKOLINE MIXTURE

THAT'S why the big poultry raisers and the big egg producing companies have for four years used, and continue to use **Milkoline**. Experiments made at Missouri University, extending over a year, absolutely prove the above statement—in fact, the following table shows that we could almost say three times as many eggs from the same flock and the same grain.

Young Pigs and Hogs

thrive on **Milkoline**. It is the best possible tonic. A long-felt want for the hog raiser as well as the poultryman. Keeps young pigs and hogs toned up so that they can resist disease, take on weight quickly and develop rapidly.

What Milk Did For One Flock

Fed without Skim Milk.

25 hens
1373 eggs
1095 pounds grain
409 pounds mash diet

Cost per dozen 22²/₃c.

Fed with Skim Milk.

25 hens
3275 eggs
957 pounds grain
446 pounds mash with skim milk added

Cost per dozen 10³/₈c

Breeding and Laying Birds

This is the month when breeding and laying birds must be in the very best of condition to produce the maximum number of eggs. They need a food ration that continually builds up the system. For early baby chicks nothing better than **Milkoline**. Where **Milkoline** is fed White Diarrhoea is unknown.

In this feeding test \$3.90 worth of Sour Skim Milk saved 2,149 lbs. of grain and mash and 11 Months' time in producing 3,275 Eggs. Many other tests prove this as an average result.

Milkoline, mixed 1 Gallon to 50 Gallons of water, gives even better results.

30c Worth of Milkoline Saves 100 lbs. of Grain

In figuring 30c worth of Milkoline to save 100 lbs. of grain, twice as much Milkoline is allowed, compared with the Sour Skim Milk in the above named test.

Milkoline is made from pure, fresh buttermilk, modified and condensed for cheap shipping and easy handling. It is improved in feeding value by added vegetable oils for proper balance of protein and carbohydrates. Milkoline with its added acidity is a wonderful aid to the digestion and eliminates disease germs, thereby allowing hens to derive full nutriment from every ounce of feed. Milkoline has a stimulating effect on organs of egg production.

Ask Your Dealer for MILKOLINE **If he does not handle it, do not delay ordering direct from us. We will deliver it to you, all charges prepaid upon receipt of price. Booklet free for asking. Money-back guarantee.**

Prices Delivered To Your Station {
1 gallon\$2.00
5 gallons in keg..... 1.50 per gallon
10 gallons in keg..... 1.25 per gallon
32 gallons in barrel..... 1.00 per gallon

The Milkoline Mfg. Co. 383 Creamery Bldg. KANSAS CITY, MO.

Trial Order Blank

The Milkoline Mfg. Co.
383 Creamery Bldg., Kansas City, Mo.

You may ship me.....Gallons
Milkoline, freight prepaid to my station as per your **guarantee** of perfect satisfaction or money-back.

I enclose \$.....

Name.....

Town.....

State.....

GALLOWAY'S HELP

for Poultrymen

When feed is high and labor is scarce — save money with Galloway's

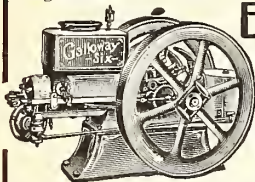
ENGINES — FEED MILLS — CORN SHELLERS

You can make up for high cost of feed and labor by doing your work with a Galloway Engine. Let it pump your water, run your feed mill and shell your corn. These are times that call for greatest economy and Galloway power is one sure way to economize. Galloway Engines mean economy in the work they do and the way I sell them, because they are—



Sold direct from factory at low prices

Get My New 1918 Proposition Selling direct from factory is the most economical way of distribution. Everybody knows that, as there is no waste between the maker and consumer. That's my plan, which saves you big money. Read my New 1918 Book. Get the latest engine facts. Learn how Galloway saves you money on the best engine built.



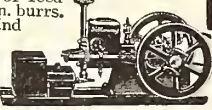
ENGINES

Light Work Models, 1 1/2 to 6 H.P.
Galloway Engines are for all kinds of light work — pumping, running corn sheller, feed mill, or saw rig. Portable and stationary. Made of superior materials by skilled workmen; every part standardized and interchangeable. Uses any fuel. Develops way above rated horsepower. Large, heavy, counterbalanced flywheels. Make-and-break ignition; never misses fire. Easily started. No cranking. Frost-proof and fool-proof. A Galloway is the kind of engine you want and demand.

Feed Mills — Corn Shellers

at a New Money-Saving Price

I make two sizes of feed mills—8-inch and 10-inch burrs. Work perfectly, grind fine, with regular flow. Big capacities. My Corn Shellers are self-feed — handle any corn—run easily, with big capacity. Strong, durable and wonderfully simple.



Get This Book

Read about Galloway Engines and other Galloway implements that sell direct. You need Galloway Engines now more than ever. Prices will never be lower. Don't wait. We ship from near-by points to save you freight. Send coupon today for FREE book. Use the coupon.

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William Galloway Co.**

3107 Galloway Station, Waterloo, Iowa

MAIL THIS COUPON

Wm. Galloway, Pres., Wm. Galloway Co.,
3107 Galloway Station, Waterloo, Iowa.
Send me free your 1918 Book on Engines.

Name _____

P. O. _____

R. F. D. _____ State _____

"Resolved, that we, the officers of the Boston Poultry Association and many of its exhibitors throughout the United States here assembled, do hereby urge upon the Government of the United States, the necessity of building, forthwith, proper drying kilns, for the preservation of corn and to take means of reducing the price of grains and other foods and to place a maximum price on these goods used by the poultrymen, in the production of poultry, meat and eggs."

Wednesday, as usual, was Veteran Fanciers' Day and was celebrated by a dinner to the veteran poultrymen. Those present were:

Isaac K. Felch, Natick, 79 years, poultry breeder 60 years; Dr. Buchanan Burr, Yarmouthport, Mass.; 62 years, poultry breeder 54 years; Charles Weeden, E. Haverhill, N. H., 62 years, poultry breeder 20 years; N. L. Berry, Camden, Me., 71 years, poultry breeder since boyhood; W. H. Sylvester, Brockton, Mass., 70 years, poultry breeder since boyhood; P. H. Freeman, Fitchburg, Mass., 68 years, poultry breeder 50 years; D. E. Tasker, Brattleboro, Vt., 64 years, poultry breeder 40 years; Abel F. Stevens, Wellesley Hills, 65 years, poultry breeder 53 years; George W. Weed, East Lee, 64 years, poultry breeder 40 years; C. H. Pope, Brockton, 61 years, poultry breeder 45 years; C. A. Ballou, Worcester, 68 years, poultry breeder many years; C. W. Richardson, Apponag, R. I., 75 years, poultry breeder 50 years; W. J. Stokes, Boston, 81 1/2 years, poultry breeder 71 years; John Lowell, Chestnut Hill, Mass., 61 years, poultry breeder 51 years.

Resolutions were adopted on the death of F. A. Houdlett, of Boston.

The poultry judges at Boston Show were:

W. M. Anderson, Saratoga Spring, N. Y.; C. A. Ballou, Worcester, Mass.; F. C. Burbank, Sandwich, Mass.; A. J. Braun, Jr., Syracuse, N. Y.; W. H. Card, Manchester, Conn.; F. G. Cook, Waltham, Mass.; Chas. D. Cleveland, Eatontown, N. J.; J. H. Drevendst, Schenectady, N. Y.; Frank H. Davey, Vineyard Haven, Mass.; James Glasgow, Mahwah, N. J.; W. A. Hendrickson, Mattapan, Mass.; John Kriner, Stettlersville, Pa.; Mrs. W. P. Masten, Pleasant Valley, N. Y.; Haldie Nicholson, Leominster, Mass.; Richard Oke, London, Canada; Charles W. Pratt, North Abington, Mass.; F. W. Rogers, Brockton, Mass.; H. P. Schwab, Rochester, N. Y.; A. O. Schilling, Buffalo, N. Y.; Eugene Sites, Elyria, Ohio; George W. Weed, East Lee, Mass.; George L. Young, Brooklyn, N. Y.

Judging was somewhat delayed on account of late arrival of some exhibits. Most of the birds came thru in excellent condition. John S. Martin shipped a big string of White Wyandottes from Canada, part of them arrived in good season, but some twenty-one birds in personal charge of Mr. Martin got into a snow blockade and later were tied up by a railroad wreck, arriving with their owner after the judging had closed.

Light Brahmas were strong classes, with quality excellent: 10 cocks, 11 hens, 9 cockerels, 11 pullets, 9 pens. Dark Brahmas small classes.

Buff Cochins, good classes of fine quality. Partridge Cochins well filled classes.

Black Langshans, fair quality in adults and some very good ones among the young stock; 5 cocks, 3 hens, 9 cockerels, 11 pullets.

Barred Plymouth Rocks, some excellent quality; 9 cocks, 10 hens, 21 cockerels, 10 pullets, 5 pens. Good showing also in cockerel-bred and pullet-bred classes.

White Plymouth Rocks, 5 cocks, 9 hens, 18 cockerels, 15 pullets, 1 pen. Buff Plymouth Rocks, 6 cocks, 8 hens, 9 cockerels, 10 pullets, 1 pen. Partridge Plymouth Rocks, 10 cocks, 14 hens, 10 cockerels, 9 pullets, 4 pens.

Silver Wyandottes, some good quality but scattered, the breeders of this variety seem to be slipping and are not keeping up the fine lacing and snappy contrast we used to see at Boston; 12 cocks, 17 hens, 14 cockerels, 13 pullets, 6 pens. Golden Wyandottes, well filled classes.

White Wyandottes, strong classes with some fine birds in the ribbons; 23 cocks, 22 hens, 30 cockerels, 22 pullets, 9 pens.

Partridge Wyandottes, quality excellent; 6 cocks, 7 hens, 5 cockerels, 5 pullets. Black Wyandottes, small classes. Buff Wyandottes, well filled classes and some good quality. Silver Penciled Wyandottes, some excellent quality; 6 cocks, 7 hens, 10 cockerels, 7 pullets, 1 pen. Columbian Wyandottes, strong classes; 11 cocks, 8 hens, 24 cockerels, 13 pullets, 4 pens.

American Dominiques, fair classes with quality good.

STILES' COLORED Leg Bands

FOR BABY CHICKS

Growing stock, layers and breeders. Necessary on every poultry plant, whether large or small. Red, white, blue, green, black and yellow. Mention variety when ordering.



SPECIAL BRAND—Single coil. Made of lighter material and have less lap than Economy brand. 25 for 25c; 50-45c; 100-75c; 250-\$1.70; 500-\$2.75, postpaid.



ECONOMY BRAND—Single coil of highest grade. 12 for 15c; 25-30c; 50-50c; 100-85c; 250 \$2.00; 500-\$3.85, postpaid.



ROYAL BRAND—Double coil. Best of all. 12 for 20c; 25-35c; 50-65c; 100-\$1.10. 250-\$2.50; 500-\$4.75, Postpaid.

Bands for Growing Birds—(two sizes, state age) 12 for 15c; 25-25c; 50-40c; 100-75c; 250-\$1.75; 500-\$3.25, postpaid.

Baby Chick Bands—25-20c; 50-35c; 100-50c; 250-\$1.25; 500-\$2.25, postpaid.



THE VICTOR BAND Large printed numbers, bright clear colors—Red, white, blue, green, yellow. Made of celluloid and aluminum. Adjustable. 12 for 35c; 25-65c; 50-\$1.25; 100-\$2.25; 200-\$4.00. **Victor Sealed Band**—12 for 40c; 25-75c; 50-\$1.50; 100-\$2.75. Pliers 60 cents.

ALUMINUM BANDS



THE CAPITAL BAND Has raised figures. Adjustable, strong, smooth edges. 12-15c, 25-25c, 50-40c, 100-65c, 250-\$1.50, 500-\$2.75, 1000-\$5.25.



The Commercial Sealed Band—Aluminum, raised figures. Sealed with soft metal rivet. 25 for 35c; 50-65c; 100-\$1.10; 250-\$2.60; 500-\$5.00. Pliers 60c.

Poultry Cuts New designs, a complete line. Catalog Sent Free.



Poultry Punch, Price 25 cents.

CHAS. L. STILES

Department 6 COLUMBUS, OHIO

SQUAB BOOK FREE

telling how a Mich. hired man now works for himself breeding PR squabs and selling for \$5 doz., how an Ind. man sold 4652 PR squab for \$1265 and cured himself of desire to leave the farm, how a S. C. man ships PR squabs 125 miles to city hotel by parcel post at \$4.25 doz., how another earned one thousand dollars with PR stock from start with only one pair, how a Texas judge herd 8 pigeons until they amounted to a flock of 164 in one year, how a Vermont herd 25 pairs to 800 pairs in two years. You can do the same. More money-making experiences. Write today for this big free book. How to get six dollars a dozen, how to start small and grow big. We ship breeders everywhere, safe delivery guaranteed. Read how one of our customers gets \$8 a dozen for squabs in Pittsburg and makes a net profit of ninety dollars a month. Note his selling methods. Reading matter which is alive with selling ideas. Squabs well selected and raised. Save me at breed, sell, eat squabs.

delicious dinners; enjoyable recreation, very little space and money needed to start. For prices and full particulars see our free book, "How to Make Money with Squabs." Write for it today.

PLYMOUTH ROCK SQUAB COMPANY,
321 Howard St., Melrose Highlands, Mass.

Founder of the Squab Industry in America



Poultry Supplies

All Kinds, Houses, Fixtures, Feeders, Fountains, Hoppers, Troughs, Bone Mills, Coops, Leg Bands, Weas, Bone, Shell, Grit, Foods, Remedies, Pigeon, Kennel and Bee Supplies, Circular Free. **Eureka Supply House, Box A, Aurora, Ill.**

Mention the American Poultry Journal when writing to advertisers.

S. C. Rhode Island Reds, fine classes, quality in young stock rather superior to the adults; 25 cocks, 22 hens, 32 cockerels, 31 pullets, 14 pens. R. C. Rhode Island Reds also fine classes, with quality about evenly divided among young and adult stock; 12 cocks, 7 hens, 14 cockerels, 11 pullets, 9 pens.

Small exhibits of White Dorkings and Silver Grey Dorkings.

Orpington classes well filled and some excellent quality shown in Buffs, Blacks, and Whites.

Cornish made an excellent showing in Dark, White, and White Laced Red varieties.

S. C. Brown Leghorns were strong classes; 10 cocks, 13 hens, 15 cockerels, 12 pullets, 2 pens. R. C. Browns, small classes.

S. C. White Leghorns, good classes, with excellent quality; 10 cocks, 10 hens, 17 cockerels, 15 pullets, 8 pens. R. C. Whites represented by one pullet. Buff Leghorns, well filled classes, with some fair quality. Other Leghorn classes small.

Black Minorcas, some excellent specimens; 5 cocks, 8 hens, 7 cockerels, 7 pullets, 1 pen. R. C. Blacks, small classes. Fair classes of Buff Minorcas.

Small classes of Blue Andalusians and Anconas. Polish, well filled classes. Houdans, small classes.

Hamburgs made strong classes, in fact a good Hamburg show in itself. Blacks, 9 cocks, 17 hens, 11 cockerels, 14 pullets, 1 pen. Golden Spangled, 4 cocks, 6 hens, 8 cockerels, 7 pullets. Silver Spangled, 17 cocks, 28 hens, 25 cockerels, 30 pullets, 2 pens. Golden Penciled, small classes.

Silver Campines, excellent classes of good quality. Golden Campines, small classes.

Buttercups good classes, showing improvement in quality; 6 cocks, 8 hens, 9 cockerels, 10 pullets, 2 pens.

Salmon Faverolles, small classes. Some excellent exhibits of turkeys, water fowls and pigeons. A good sized cat show, a fish exhibit, and a big exhibit of hares, rabbits, and calves, also a small exhibit of eggs, dressed poultry, and dressed hares, made up a well balanced big show of more than usual interest.

Full list of awards follows:

Light Brahma—Geo. V. Fletcher, Belmont, Mass., 1-2-3 cock, 3-4-5 hen, 4-5 ckl, 4-5 pl, 1 old pen, 2 young pen. J. R. Crispin, Magnolia, Mass., 5 cock. Harvey C. Wood, Bound Brook, N. J., 4 cock, 1-2 hen, 1-2-3 ckl, 1-2-3 pl, 1 young pen. Fairview Farm, South Portland, Me., 2 old pen.

Dark Brahma—C. A. Ballou, Worcester, Mass., 1 cock, 1 hen, 1 ckl, 1-2 pl.

Buff Cochin—Oakland Farm, Taunton, Mass., 1-2-3-4 cock, 1-2-3-4 hen, 1-2-3-4 ckl, 1-2-3-4 pl, 1 pen.

Partridge Cochin—Frank E. Silloway, Newburyport, Mass., 5 cock, 2 hen. Bayliss Bros., Taunton, Mass., 2-3 cock, 4-5 hen, 1-3-4 ckl, 1-2-5 pl, 1 young pen. Anna L. Burrall, Union City, Conn., 1-4 cock, 1-3 hen, 2-5 ckl, 3-4 pl, 1 old pen.

White Cochin—H. K. Foss, Melrose, Mass., 1 cock, 1-2 hen, 1-2 ckl, 1-2 pl.

Black Langshans—E. S. Foss, Bradford, R. I., 4 cock. Chickatawb Farm, Canton, Mass., 1 cock, 1-3 hen, 2-4 ckl, 2-4-5 pl. Otto Cristoph, South Orange, N. J., 2-3-5 cock, 2 hen, 1-3-5 ckl, 1-3 pl.

Barred Plymouth Rocks—C. H. Shaylor, Lee, Mass., 3 cock, 2 hen, 2 ckl. Geo. A. Bowker, Worcester, Mass., 5 cock. M. S. Arey, Bar Harbor, Me., 4 cock, 3 hen, 3-5 pl, 2 young pen. Grove Hill Poultry Yards, Waltham, Mass., 1-2 cock, 1-4 hen, 1-3 ckl, 1-2-4 pl, 1 young pen, 1 old pen. W. W. Carpenter, East Providence, R. I., 5 hen. Quimby & Adams, East Rochester, N. H., 4-5 ckl. F. G. Swanberg, East Bridgewater, Mass., 3 young pen, 2 old pen.

Barred Plymouth Rocks, Pullet-Bred—F. E. Sherman, Hyannis, Mass., 3 cock, 4 hen. W. C. Belknap, Bellows Falls, Vt., 2 cock. C. H. Shaylor, 1 cock. Geo. A. Bowker, 4 cock, 1-3 hen. W. W. Carpenter, 2 hen. F. G. Swanberg, 5 hen. F. W. Proctor, North Brookfield, Mass., 1 ckl.

Barred Plymouth Rocks, Cockerel-Bred—F. G. Swanberg, 1-2 pl. Geo. A. Bowker, 3 pl. W. W. Carpenter, 1 pen.

White Plymouth Rocks—Mirimichi Poultry Farm, Foxboro, Mass., 1-3-5 cock, 4-5 hen, 1-5 ckl, 3-5 pl, 1 old pen. F. A. Brown, Brockton, Mass., 4 cock, 2 hen, 2 ckl. Wakefield Poultry Farm, Wakefield, Mass., 2 cock, 1 hen, 3 ckl, 2 pl. Wentworth Lodge Poultry Co., Derry Village, N. H., 4 ckl. E. F. Whitman, South Weymouth, Mass., 3 hen, 4 pl. H. K. Chadwick, Oak Bluffs, Mass., 1 pl.

Buff Plymouth Rocks—F. J. Nutting Brandon, Vt., 1 cock, 1-4 hen, 1-2-5 ckl, 1-2-4 pl, 1 young pen. Percy E. Jarnis, Marion, Mass., 3 cock. P. W. Noyes, New London, Conn., 2 cock, 2 hen, 4 ckl, 5 pl. B. N. Duclos, Lenox, Mass., 4 cock, 3-5 hen, 3 pl. W. B. Reed, South Duxbury, Mass., 5 cock. Wm. Oliver, Barre, Vt., 3 ckl.

Partridge Plymouth Rocks—Bird Bros., Meyersdale, Pa., 1-2-5 cock, 1-2-4 hen, 1-2-4 ckl, 1-2-3 pl, 2 old pen. F. O. Shephardson, Mansfield, Mass., 3 cock, 3 hen. Thos. H.

HIP! HIP! HOORAY! Victorious Again!

Victorious in the Largest Barred Rock Show of America

This time the glorious ARISTOCRATS win out at that mighty NATIONAL BARRED ROCK CLUB SHOW, HELD AT CHICAGO

the entire nation's big club show—the Barred Rock show of all America.

And above everything else stands out this powerful fact: These great winnings were made with Aristocrats by my customers. Think! My customers are able to make such magnificent winnings with Aristocrats in competition with all those big, notable Barred Rock breeders and advertisers who showed their birds at Chicago. One of my customers alone carried home six ribbons, four on Aristocrat stock purchased from me, and two on Aristocrats which he hatched from Aristocrat eggs purchased last spring. (By the way, those same identical matings which produced these winners at this great show are again mated up and my customers are receiving eggs from them.)

It is the breeders who are raising ARISTOCRATS who are making the money. Aristocrats are possessing this greatest, best-paying combination of all: They are great show chickens, great market chickens and great layers—with many individual records of over 200 eggs per year and as high as 260 eggs in one year.

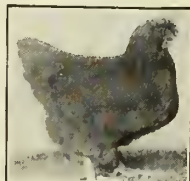
Therefore, while you are breeding and raising chickens, why not breed, feed and raise THE BEST? Why not? It costs no more to feed and raise the very richest Aristocrats than to raise scrubs. Think!

I can help you out with wonderfully rich breeding cockerels, pairs, trios and pens—for the most magnificent collection of Aristocrats I have ever had in my yards right now. Write me your wants and I will help you. Every Aristocrat is guaranteed to be absolutely satisfactory or the full purchase price will be refunded.

Eggs from matings which are producing such wonderful specimens (including eggs from the same matings which produced the above great winners) \$10 for 15; \$25 for 50; \$50 for 100.

W. D. HOLTERMAN, Fancier

Box A, FORT WAYNE, INDIANA, U. S. A.



1st Buff Orpington Hen Indianapolis, 1917

No, I did not sell my

Buff Orpingtons

on the market because feed prices advanced.

I have the best lot of young birds I ever raised, bred from hens like the one illustrated in this ad and sired by my first Indianapolis cock.

Other Breeders May Have Better Birds, But These Look Good to Me.

I have a lot of March and April hatched cockerels you can have your pick for \$10.00, \$15.00, \$20.00 and \$25.00. No more, no less. You can order direct from this advertisement. Your money back if not satisfied.

No, this price does not govern in females. Eggs are now selling at 50 cents per dozen and they will sell for \$1.00 this winter, so I am not crazy to sell females from the greatest winter layers that wear feathers.

Yes, I won at the Indiana State Fair, 1917: Five ribbons in the strongest class of Buff Orpingtons ever caged in this State. At the February show I won 1st cock; 1st and 2d hen; 2d cockerel; 1st old and 2d young pens. The young males I am offering in this advertisement were bred from these winners.

"Just shove your money under the door" and I will send you birds worth a little more than you pay for them. DO IT NOW!

THEO. HEWES

2053 Hillside Avenue

INDIANAPOLIS, INDIANA

Imperial Buff Wyandottes

SENSATIONAL VICTORY

Winners of Best Display at Coliseum, Chicago, Dec., 1917, 1-2 ckl., 1-2-3 plt., 3-4 cock, 2-4 hen, 2 old and 2-3 young pens; Club ribbons for best colored male, best shaped female and best colored female.

A Grand Lot of Breeding and Show Cockerels For Sale

These birds will strengthen any flock. Book your Hatching Eggs early. Send for Free Booklet.

W. F. SCHULTZ

Box 97

CUXAHOGA FALLS, OHIO

Wm. Cook & Sons

ORIGINATORS OF ALL THE
Box A
Scotch Plains, New Jersey

ORPINGTONS

As we MADE all of the Orpingtons, it is natural that we are recognized HEADQUARTERS for the Best all varieties. We have won over fifteen thousand first prizes and numerous government laying contests, our birds each averaging 251 eggs in a year. With high prices for feed, this is the sort of stock that it pays to keep. Better line of exhibition and utility birds than ever before. Write require ments. Satisfaction guaranteed and backed by reputation of 44 years. Send to-day for Annual catalogue Ornamental land and water fowl for sale. Advice free.

3 years—36 issues—of American Poultry Journal for \$1



First prize Black Orpington cockerel at Madison Square Garden, 1917-18. Owned by Moore & Bowlus, Fremont, Ohio.



Second prize Buff Orpington cock at Greater Chicago Show, January, 1918. Owned by F. S. Jordan, Springville, Iowa.

Vincent, Turners Falls, Mass., 4 cock. Glenwood Farms, West Mansfield, Mass., 5 hen, 5 ckl, 5 pl, 1 old pen. Paul Klingbeil, Walpole, Mass., 3 ckl, 4 pl, 3 old pen. Lawrence C. Allen, Sanford, Me., 1 young pen.

Silver Wyandottes—Anderson & Freeman, Fitchburg, Mass., 3-5 cock, 3 young pen, 2 old pen. R. G. Williams, Barre, Mass., 1-4 cock, 1-4-5 hen, 2-4-5 ckl, 2-4 pl, 1 old pen, 1 young pen. Geo. W. Weed, East Lee, Mass., 2 cock, 5 pl. N. C. Rublee, Fitchburg, Mass., 3 hen, 1 ckl, 1-3 pl. J. F. Van Alstyne, Castleton, N. Y., 2 hen. M. H. Leidy, Souderton, Pa., 3 ckl, 4 young pen.

Golden Wyandottes—N. C. Rublee, 1 cock, 1-3 hen, 5 pl. O. P. Chase, Andover, Mass., 2 cock, 2 hen, 2-4 ckl, 1 pl. Geo. Stevens, Worcester, Mass., 1-3-5 Ckl, 2-3-4 pl.

White Wyandottes—Mirimichi Poultry Farm, 2 cock, 3 hen, 1 ckl, 1-5 pl, 1 young pen. C. G. Reed, Lawrence, Mass., 4-5 cock, 5 hen. Geo. H. Pollard, Greenbush, Mass., 3 cock, 2 hen, 3 ckl, 2-4 pl, 2 young pen. John S. Martin, Port Dover, Ont., Can., 1

cock, 1-4 hen, 4-5 ckl, 1-3 old pen, 4-5 young pen. Cauldalin Farm, Convent Sta., N. J., 2 ckl. Fred E. Noyes, Marlboro, Mass., 3 pl. Chas. S. Flanders, Concord, N. H., 3 old pen. Horace Holton, Maplewood, Mass., 2 old pen.

Black Wyandottes—Frank C. Sites, Bay Village, Ohio, 1 cock, 1 hen.

Buff Wyandottes—Fred Rockwood, South Brookline, N. H., 3 cock. S. A. Howland, Granville, N. Y., 1 cock. Andrew Riddell, Greenwich, N. Y., 2 cock, 3 hen, 4 ckl, 1 pl. A. J. Gies, Delmar, N. Y., 4 cock, 1-2 hen, 1-2-3-5 ckl, 2-3-4 pl, 1 old pen, 2 young pen.

Partridge Wyandottes—B. H. Young, Bar Harbor, Me., 2-4 cock, 5 hen, 4 ckl, 1-4 pl. Peter S. Byrons, Wickford, R. I., 1-5 cock. Geo. G. Stevens, 2 cock, 5 ckl. F. H. Jordan, South Portland, Me., 3 hen, 1 ckl. A. G. Thompson, Franklin, N. H., 4 hen, 2 ckl, 2 pl. Buck Bros., Oxford, Mass., 1-2 hen, 3 ckl, 3 pl. F. W. Guild, Holliston, Mass., 5 pl.

Silver Penciled Wyandottes—F. W. Rogers,

Montello, Mass., 1 cock, 1-3-4 hen, 1-2 ckl, 1-3-4 pl, 1 old pen. A. L. Hathaway, Abington, Mass., 2-3 cock, 2 hen, 4-5 ckl, 2 pl. Fred F. Field, Brockton, Mass., 5 cock, 5 hen, 5 pl. J. W. Holbrook, Malone, N. Y., 4 cock. C. H. Pope, Brockton, Mass., 3 ckl.

Columbian Wyandottes—Harwood Farm, Littleton, Mass., 3 cock. Gilbert Poultry Farm, Haverhill, Mass., 4 cock, 3 pl, 3 young pen. Levi A. Ayres, Granville, N. Y., 2 cock, 1-3-5 hen, 1 young pen. Austin G. Warner, Whitesboro, N. Y., 5 cock. Ralph Woodward, Grafton, Mass., 1 cock, 2-4 hen, 4 ckl, 4 pl. J. A. Brackett, Mattapan, Mass., 3-5 ckl, 2 pl. A. L. Hathaway, 2 ckl. Geo. L. Hall, Dudley, Mass., 1 ckl. Wm. T. Mingels, Walpole, Mass., 5 pl. C. C. Smith, Vineyard Haven, Mass., 2 young pen.

American Dominique—N. Litchfield, Freeport, Me., 1 cock, 1-2-3-4 hen, 1 ckl, 1-2-3-4 pl, 1 pen. Harry B. Daniels, St. Johnsbury, Vt., 2 ckl.

S. C. Rhode Island Reds—Mirimichi Poultry Farm, 1 cock, 1-4 ckl, 3 old pen, 5 young pen. Rock Ledge Farm, Southboro, Mass., 2 cock. Elmer F. Benson, Whitman, Mass., 4-5 cock. H. E. Watts, Monument Beach, Mass., 3 cock. Wm. C. Stephens, Foxboro, Mass., 3-4-5 hen, 4 pl, 3 young pen. Harold Tompkins, Concord, Mass., 2 hen, 2-3 ckl, 1-2-3 pl, 2-5 old pen, 1-2 young pen. W. A. Dickinson & Son, Dalton, Mass., 1 hen. L. W. Bean, South Braintree, Mass., 5 ckl. Lester Tompkins, Concord, Mass., 5 pl. Spring Farm Poultry Co., Littleton, Mass., 1 old pen, 4 young pen. John H. Bates, Watervliet, N. Y., 4 old pen.

R. C. Rhode Island Reds—A. C. Morehouse, Beverly, Mass., 4 cock. Payne Bros., Portland, Conn., 1-3-5 cock, 5 hen, 3 ckl, 2 pl, 2-4 old pen, 1-5 young pen. F. B. Wilson, Sherbrook, P. Q., Can., 2 cock. Pleasant Hill Poultry Farm, Brockton, Mass., 4 hen, 3 pl. Harold Tompkins, 2-3 hen, 1-2-4 ckl, 1-5 pl, 1-3 old pen, 2-3 young pen. Lester Tompkins, 1 hen, 4 pl, 4 young pen. A. E. Alden, West Bridgewater, Mass., 5 ckl.

Rhode Island Whites—F. M. Whipple, Sharon, Mass., 1 old pen, 2 young pen.

Colored Dorkings—J. R. Crispin, 1-2-3-4 pl. **Silver Gray Dorkings**—C. E. Thorpe, Braggville, Mass., 1-2 cock.

S. C. Buff Orpingtons—Geo. E. Besson, Mansfield, Mass., 2 cock, 4 ckl, 2-3 pl. C. W. MacNear & Son, Ashland, Mass., 1 cock, 1-4 hen, 3 ckl, 4-5 pl. C. C. Nickerson, Harwickport, Mass., 3 cock, 1-2 ckl. Dr. H. I. Yale, Peabody, Mass., 5 hen. Hamilton Poultry Yards, Framingham, Mass., 2-3 hen, 5 ckl, 1 pl. F. B. Crownshield, Marblehead, Mass., 1 young pen.

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S. C. Black Orpingtons—E. W. Poole, New Bedford, Mass., 1-3 cock, 3 hen, 2 ckl. Town Farm, Wilmington, Mass., 5 cock, 4-5 hen. C. N. Strafford, Attleboro, Mass., 2-4 cock, 2 hen, 1-5 ckl, 1-3 pl. C. E. Winchester, Vt., 1 hen. **Black Feather Farm**, Dorchester, Mass., 4 ckl, 5 pl. Wm. Wordwell, Stoneham, Mass., 3 ckl. Leonard Hinds, Attleboro, Mass., 2-3 pl.

Blue Orpingtons—Mrs. L. W. Bridges, Framingham, Mass., 1 cock. **Lexmoult Poultry Yards**, Lexington, Mass., 2 cock.

S. C. White Orpingtons—John R. Johnson, South Windham, Me., 1 cock, 1 hen, 4 pl. Mary M. Hitchcock, Ware, Mass., 2 hen, 1 ckl, 1-2-3-5 pl. Ben Milward, Everett, Mass., 3 hen, 3 ckl. Ralph E. Simmons, Pittsfield, Mass., 2 ckl.

Dark Cornish—John W. Myers, Fittswilliam, N. H., 2 cock, 1 hen, 1 ckl, 2 pl, 1 young pen. K. J. Hatch, Beverly Farms, Mass., 5 cock. C. E. Henning, Hanover, Ont., Can., 3 cock, 2 hen. C. J. Wright & Son, Sherbrook, Can., 4 cock, 3 hen, 2 ckl. John M. Priske, Hudson, N. H., 1 cock, 1-4-5 pl. C. C. Smith, Wilton, N. H., 4 hen. Dr. E. H. Howland, Worcester, Mass., 3 ckl. **Butterick Bros.**, Fitzburg, Mass., 4-5 ckl, 3 pl.

White Cornish—Dr. F. H. Howland, 1-2 cock, 1-2 hen, 1-3 ckl, 1-2 pl. L. J. Smith, Deep River, Conn., 2 ckl, 3 pl.

White Laced Red Cornish—F. C. Burbank, Sandwich, Mass., 3 cock, 1 hen, 2 ckl. W. H. Card, Manchester, Conn., 2 cock, 1 ckl, 1-2-3 pl. C. S. Sibley, Wallingford, Conn., 1 cock, 2 hen.

S. C. Brown Leghorns—N. B. Hartford, Bourneville, Mass., 5 cock. H. W. Weeks, Framingham Centre, Mass., 3-4 cock, 4 hen, 4 ckl, 4 pl. **Grove Hill Poultry Yards**, Waltham, Mass., 1-2 cock, 1-2-3 hen, 1-2 ckl, 1-2-3 pl, 1 young pen. **Glen Ridge Poultry Yards**, West Newton, Mass., 5 hen, 5 ckl, 5 pl. C. E. Henning, 3 ckl, 2 young pen.

R. C. Brown Leghorns—C. E. Henning, 1 cock, 1 hen, 1 ckl, 1-2 pl. Geo. M. McNeal, Wintrop, Mass., 2-3 cock, 2 hen.

S. C. White Leghorns—H. P. McKean, Beverly Farms, Mass., 2 cock, 2 hen, 3 ckl, 2-4 pl, 3 old pen, 3 young pen. Walter Rose, Teeswater, Ont., Can., 4 cock, 3 hen, 4 ckl, 5 pl, 2 old pen, 2 young pen. **Owen Farms**, Vineyard Haven, Mass., 1-3-5 cock, 1-4 hen, 1-2-5 ckl, 1-3 pl, 1 young pen, 1 old pen. Wm. Grindrod, Pawtucket, R. I., 5 hen.

R. C. White Leghorns—Lawton B. Quinby, Laconia, N. H., 1 pl.

S. C. Buff Leghorns—Miss A. P. Wilcox, Stonington, Conn., 2 cock, 1-2 hen, 2-3-4-5 ckl, 2-3 pl. C. H. Wheelock, Weston, Mass., 1 cock, 3 hen, 1 ckl, 1 pl.

R. C. Buff Leghorns—Clarence A. Coombs, Brattleboro, Vt., 1 cock.

Black Leghorns—Turtle Point Farm, Saratoga Springs, N. Y., 1 cock, 1 hen, 1 ckl, 1 pl. J. T. Kelleher, Springfield, Mass., 2-3-4 ckl. E. Raymond, Bingham Centre, Mass., 2 pl.

Silver Leghorns—Turtle Point Farm, 1 cock, 1 pl.

S. C. Black Minorcas—Dr. B. J. Hovestadt, Boston, Mass., 2 cock, 2-5 hen, 1 ckl, 3 pl. L. S. Sherman, Pittsfield, Mass., 1 cock, 1 hen, 4 ckl, 1 pl. **Black Feather Farm**, 4 hen, 2 ckl. S. L. Booth, Bristol, R. I., 3 ckl, 4 pl. A. French and H. Sawyer, Peabody, Mass., 2 pl.

Buff Minorcas—J. A. & J. W. Conway, Malden, Mass., 1 cock, 1-2-3-4 hen, 1 ckl, 1-2-3-4 pl.

Blue Andalusians—Walter J. Coates, East Calais, Vt., 1 cock, 1 hen, 1-2 ckl, 1-3 pl. C. A. Gasset, Milville, Mass., 2 cock, 3 ckl. H. T. Cotting, Rhinebeck, N. Y., 2 hen, 2 pl.

Black Spanish—W. T. Renleres, Bristol, R. I., 1 hen.

S. C. Anconas—Cole's Ancona Yards, Rhinebeck, N. Y., 1 cock, 1-2 hen, 1-2 ckl, 1-4 pl, 1 young pen. A. W. Trumppold, Holyoke, Mass., 3 hen, 3 pl. **Winterlake Farm**, Springfield, Mass., 2-5 pl.

R. C. Anconas—Sunshine Ancona Farm, Cordaville, Mass., 1-2 hen, 5 pl. W. M. Anderson, Saratoga Springs, N. Y., 1 ckl, 2 pl. **Winterlake Farm**, 1-3 pl. A. W. Trumppold, 4 pl.

W. C. Black Polish—C. R. Doxey, Riverside, R. I., 3 cock. C. L. Seely, Afton, N. Y., 5 cock, 5 hen. Wm. C. Chapman, Peterboro, N. H., 4 cock. Charlotte C. Daylies, Taunton, Mass., 2 cock, 3 hen. W. J. Kelly, Cambridge Springs, Pa., 1 cock, 2-4 hen, 2-3-5 ckl, 2-5 pl, 1 pen. E. P. Stein, Buckland, Conn., 1 hen, 1 pl. C. E. Smith, Fall River, Mass., 1-4 ckl, 3-4 pl.

Silver Polish—Black Feather Farm, 2 cock, 3 hen. Schriver & Burt, Groton, Conn., 1 cock, 1-2 hen, 1 ckl, 1-2 pl.

Bearded White Polish—C. R. Hicken, Dorchester, Mass., 1 cock, 1 hen.

Non-Bearded Silver Polish—Schriver & Burt, 1 young pen.

Black Hamburgs—John Lowell, Chestnut Hill, Mass., 5 cock, 1-3 hen, 2-4 ckl, 2-3 pl. E. P. Saltonstall, Chestnut Hill, Mass., 2-5 hen, 1-2-3 cock, 1-3 ckl. C. M. Weld, Reedville, Mass., 4 cock. Robt. C. Morse, Hyde Park, Mass., 4 hen, 5 ckl, 1-5 pl, 1

young pen. Phillip M. Reynolds, Reedville, Mass., 4 pl.

Golden Spangled Hamburgs—John Lowell, 1-3 cock, 1-2-5 hen, 1-2-4 ckl, 1-2-4-5 pl. S. H. Fessenden, Chestnut Hill, Mass., 2 cock, 3 ckl. Edward Reynolds, Boston, Mass., 4 cock, 3-4 hen, 5 ckl, 3 pl.

Silver Spangled Hamburgs—R. T. Paine, Boston, Mass., 1-4 cock, 1-4-5 hen, 5 ckl, 1-4 pl, 1 old pen. Wm. L. Allen, Chestnut Hill, Mass., 2 cock, 3 ckl, 5 pl. Phillip L. Saltonstall, 5 cock, 2 ckl. C. M. Weld, 3 cock, John Lowell, 3 hen, 4 ckl, 1-2 pl. Otto Christoph, 2 hen, 3 pl. Dr. J. S. Wolfe, Bloomfield, N. J., 1 ckl. S. H. Fessenden, 2 hen.

Golden Penciled Hamburgs—J. W. Shonfield, East Lynn, Mass., 1 cock. John Lowell, 1 hen. Mrs. Andrew Adie, Chestnut Hill, Mass., 1 hen.

Silver Penciled Hamburgs—Isaac Sprague, Wellesley Hills, Mass., 1 cock, 3 hen, 2 ckl. John Lowell, 1-2 hen.

Silver Campines—Homestead Campine Farm, Wayland, Mass., 1-2 cock, 1-2 hen, 1-2-3-4 ckl, 1-2-3-4 pl, 1-2 young pen. John McKenzie, Milton, Mass., 3 hen. Warren J. Stokes, West Roxbury, Mass., 5 ckl. J. E. Eveleth, South Lincoln, Mass., 5 pl.

Golden Campines—John McKenzie, 1 hen. Batchelder Bros., Centerdale, R. I., 1 ckl, 1 pl. J. E. Eveleth, 2 pl.

Buttercups—J. H. Eddy, Saratoga Springs, N. Y., 1 cock, 4 hen, 5 ckl, 4 pl. C. S. Cook, Newton, Mass., 3 hen. J. W. Holbrook,

5 cock. **Hiddenhurst Buttercup Yards**, Sharon Sta., N. Y., 3-4 cock, 2-5 hen, 2-3-4 ckl, 5 pl, 1-2 old pen. Mrs. Hattie D. Reed, Marcellus, N. Y., 2 cock, 1 hen, 1 ckl, 2 pl. Dr. Rufus J. Howe, Worcester, Mass., 1-3 pl.

Salmon Favorolles—Jas. W. Patton, Hughe-dale, R. I., 1 hen, 1 ckl, 1 pl. Wm. M. Tilton, West Roxbury, Mass., 2 ckl. F. J. Robinson, Nashua, N. H., 3 ckl, 2 pl. Mrs. C. Scanlon, West Roxbury, Mass., 1 old pen.

Black Breasted Red Games—Jas. F. Powers, Medfield, Mass., 4 cock. F. Hunt, Needham Heights, Mass., 3 cock, 2 hen. Andrew W. Delano, Attleboro, Mass., 2 cock, 1 hen, 2 ckl, 1 pl. Mudge & Son, Westerly, R. I., 1 cock. Chas. F. Reed & Son, Winchester, N. H., 1 ckl.

Golden Duckwing Games—Buttrick Bros., 1 cock, 1 hen. J. W. Shonfield, 1 ckl.

Silver Duckwings—Buttrick Bros., 1 cock, 1 hen.

Red Pyle Games—Buttrick Bros., 1 cock, 1 hen, 1 ckl, 1 pl. J. W. Shonfield, 2 cock.

Pyles and White Games—G. W. D. Emerson, Weston, Mass., 1 cock.

Hennies—G. W. D. Emerson, 1 hen, 1 pl.

Sumatras—Carl S. Fuller, Manchester, N. H., 1 cock, 1-2 hen, 1 ckl, 1-2 pl.

Red Sussex—Samuel G. Ayres, Granville, N. Y., 1 hen. Ralph Woodward, 1 pl.

Any Other Variety—Frank Crumpstone, New London, Conn., 1 cock, 1 hen, 2 ckl, 4 pl. (R. C. R. I. White). F. W. Whipple, Sharon, Mass., 2 cock, 3-5 hen, 4-5 ckl (S. C.

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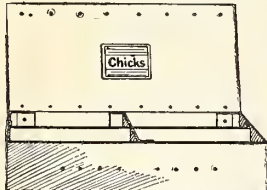
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Pekin Ducks—Chas. E. Gray, Cedar Grove, Me., 1 old drake, 1 old duck, 1 young drake, 2 young duck. Joan Ogden, Brookline, Mass., 2 old drake. H. L. Green, 233 Broadway, New York City, 2 young drake. Leandre Boudreau, Riverside, R. I., 1 young duck, 1 pen.

Rouen Ducks—H. L. Green, 1 young drake. **East Indian Ducks**—Frank A. Fay, Camillus, N. Y., 1 young drake, 1 young duck.

Muscovy Colored—C. E. Gray, 1 old drake, 1 young drake. Ed Leahy, Chestnut Hill, Mass., 2 old drake, 1-2 young duck. R. G. Shaw, Newton Centre, Mass., 1 old duck.

Indian Runners—H. B. Ellis, West Hanover, Mass., 1 old drake, 1 old duck, 1 young drake, 1 young duck.

White Indian Runners—Paul A. Davis, Newton, N. H., 2 young drake. C. W. Richardson & Son, Apponang, R. I., 1 young drake, 1 young duck.

Wild, Any Variety—Ralph E. Forbes, Milton, Mass., 1 old drake, 1 old duck, 1 young drake, 1 young duck.

Bronze Turkeys—Bird Bros., 1-2-3 cock, 1-2-3 hen, 1-2-3-4 ckl, 1-2-3-4 pl. H. D. Miner, Westery, R. I., 4 hen. Smith Farm, Chelsea, Vt., 4 cock. M. W. Brown, Wilmington, Mass., 5 cock. Margaret Mahoney, Concord, Mass., 5 hen, 5 ckl, 5 pl.

Toulouse Goose—C. W. Richardson & Son, 1 young gander, 1 young goose.

Emden Goose—C. W. Richardson & Son, 1 old gander, 1 old goose. Murray Hill Farm, Elyria, Ohio, 1-2 young gander, 1-2 young goose.

African Goose—H. D. Miner, 1-2 old gander, 1-2 old goose.

Any Other Variety Goose—M. W. Brown, 1 old gander, 1 old goose.

Black Breasted Red Game Bantams—J. W. Shawfield, East Lynn, Mass., 2 cock. David Dunn, Germyn, Pa., 1 cock, 1 hen, 1 ckl, 1 pl. C. L. Sibley, 2 hen, 2 ckl, 3 pl. J. M. Pully, Melrose, Mass., 2-4 pl.

Golden Duckwing Game Bantams—W. H. Fitton, Worcester, Mass., 1 cock, 1 hen, 2 ckl, 1 pl. F. D. E. Stowe, Brattleboro, Vt., 2 hen. F. L. Benson, South Medford, Mass., 1 ckl.

Silver Duckwing Game Bantams—F. D. E. Stowe, 1 cock. David Dunn, 2-3-4 cock, 4 hen, 2 ckl, 1 pl. F. L. Benson, 2-3 hen. H. C. Rice, Brattleboro, Vt., 1 hen, 1 ckl, 2-3 pl.

Red Pyle Game Bantams—F. L. Benson, 1-2 pl.

Birchen Game Bantams—F. D. E. Stowe, 1 hen.

White Game Bantams—C. M. Diffenderfer, Baltimore, Md., 1 cock, 1 hen, 1 ckl, 1 pl.

Black Game Bantams—C. M. Diffenderfer, 1 hen, 1 ckl, 1 pl.

Silkies Bantams—Olivia L. Thorndike, Chestnut Hill, Mass., 1 cock, 1 hen, 1 ckl, 1 pl.

Buff Silkie Bantams—David Dunn, 1-2 hen.

Golden Seabright Bantams—W. J. Daniels, Whitman, Mass., 1 cock. Daniel P. Shove, Fall River, Mass., 2-3-4 cock, 2-3-5 hen. C. R. Sharp, Bulford, Kent, England, 1 hen. A. Valente, Mansfield, Mass., 4 hen, 1 ckl, 1-2 pl.

Silver Seabright Bantams—Wm. H. Rogers, 1 cock, 1 hen, 1 ckl, 1 pl. James A. Tebo, Westover, Mass., 2 cock, 2 hen.

R. C. Black Bantams—H. A. & L. P. Benedict, Norwood, Mass., 3 cock, 3-5 hen, 2-3-5 ckl, 2-5 pl. A. L. Cutting, Weston, Mass., 1-2 hen. Tiot Bantam Yards, Norwood, Mass., 2 cock. Wm. H. Rogers, 4-5 cock, 4 ckl, 3 pl. C. M. Diffenderfer, 1 cock. H. F. Roemmele, Richmond Hill, L. I., N. Y., 4 hen, 1 ckl, 1-4 pl.

R. C. White Bantams—C. C. Nash, Milton, Mass., 2-3-4 cock, 1-3-5 hen, 2-3-4 ckl, 1 pl. C. M. Diffenderfer, 1 cock, 1 ckl, 2 pl. W. J. Middleton, Quincy, Mass., 2-4 hen, 3 pl.

Buff Cochon Bantams—Sherley H. Shattuck, Everett, Mass., 3 cock. C. M. Diffenderfer,

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Rogers' Money-Back Poultry Punch has proven to be the ideal punch for the fancier. It is without doubt the handiest, neatest and most convenient punch on the market. It punches the hole right—just the right size, and in the right place. Handle never in the way. Used by thousands of poultrymen. Beautifully nickel-plated, 45c postpaid; plain, 35c postpaid. Circular giving system of punch marking with every order.

T. W. ROGERS Box A LAMONT, IOWA

ROUP?

That's what causes 50% of the chicken losses.

Stop It Quick Just put Conkey's Roup Remedy in the drinking water. At dealers, or sent direct, 30c and 60c. Send 4c for complete book on Poultry Raising.

THE G. E. CONKEY CO.
1000 Conkey Bldg. Cleveland, Ohio

Conkey's ROUP REMEDY

Increase the Egg Yield

Because the Ideal Sanitary Fountain keeps water at the right temperature in zero or the hottest weather, it conserves the health of the hens and greatly increases the egg yield. The Ideal is made of galvanized iron and built to last a lifetime. See your dealer. Write us for complete information. **Rockford Poultry Supply Co.** Lock Box J, B. 201 Rockford, Illinois

1 cock, 3 hen, 2 ckl, 4 pl. W. J. Middleton, 2 cock. J. A. Lantis, Gloucester, Mass., 1 hen, 1 ckl. Wm. H. Rogers, 2-5 hen, 1-2-3 pl. W. Wright, 4 hen. Chas. H. Wheelock, 3 ckl. Walter W. Gumb, Peabody, Mass., 5 pl.

Partridge Cochins Bantams—S. H. Fessen-den, 4 cock, 3 hen, 1 ckl, 2 pl. H. R. Sweet, Attleboro, Mass., 5 cock, 1-5 hen, 1 pl. Bay-lies Bros., 1-2 cock, 2-3 ckl. C. M. Diffen-derfer, 3 cock, 4 hen. W. J. Middleton, 2 hen, 4 ckl.

White Cochins Bantams—R. A. McKinney, Indianapolis, Ind., 3 cock, 5 hen. Wm. H. Rogers, 2 cock, 2 hen, 1-3 ckl, 2-3 pl. C. M. Diffenderfer, 1 cock, 1 hen, 2 ckl, 1 pl. C. H. Wheelock, 4 cock, 3-4 hen. Wm. J. Middleton, 5 cock.

Black Cochins Bantams—Edward DeBour, West Springfield, Mass., 5 cock. P. S. Dal-ton, Milton, Mass., 3 cock, 2 hen, 3 ckl, 3 pl. J. H. Moyer, Reading, Pa., 1 cock, 1-5 hen, 5 ckl, 1-2 pl. J. A. Tebo, 4 cock. C. M. Diffenderfer, 2 cock, 4 hen, 2 ckl, 4 pl. R. W. Balley, Middletown, Conn., 3 hen, 1-4 ckl. E. Raymond, 5 pl.

Light Brahma Bantams—C. L. Gardner, Swansea, Mass., 3 cock, 2 hen. Jas. L. Man-ning, Wakefield, R. I., 4 cock, 4 ckl, 4 pl. C. M. Diffenderfer, 1-2 cock, 1 hen, 3 ckl, 2-3 pl. Harwood Farm, Littleton, Mass., 3 hen, 1-2 ckl, 1 pl.

Dark Brahma Bantams—Thos. F. Don-nelly, Spencer, Mass., 1-2 cock. C. M. Dif-fenderfer, 3 cock, 2 hen. Jas. Riley, Ches-ter, Pa., 1-3 hen.

Japanese Black Tail Bantams—John W. Showfield, East Lynn, Mass., 2 cock. W. J. Daniels, 1 cock, 1 hen.

Japanese White Bantams—Louis E. Gray, Foxboro, Mass., 3-4 cock, 2-3 hen. Wm. J. Daniels, 1-2 cock, 1 hen.

Bearded White Polish Bantams—C. R. Hincken, 1 cock, 1-3 hen. E. Raymond, 2 hen, 1 ckl.

Barred Plymouth Rock Bantams—Jas. Pulley, 1 hen, 1 ckl, 1 pl.

Any Other Variety Bantams—King & Whiting, Plainville, Mass., 1-2 cock, 1-2 hen, 2 ckl, 1 pl. W. J. Middleton, 1 ckl. M. M. G. Smith, 2 pl.

Pearl Guineas—Smith Farm, 1.

Mr. Delafield, owner of Sunswick Poultry Farm, South Plainfield, N. J., desires the readers of American Poultry Journal to know that, altho he made his entries at the Boston show, he was unable to exhibit there, as the express company absolutely refused to transport his birds to Boston.

WINNINGS of A. P. J. ADVERTISERS

This column is open to all American Poultry Journal display advertisers and is compiled from information furnished by the advertiser. Complete winnings of all exhibitors at the larger poultry shows as New York, Chicago, Boston, etc., are published in the issue following the show dates, together with a report of the show by an American Poultry Journal representative.

Cocks Bros., Attleboro, Mass., report the following winnings at the Attleboro Show. 2 cock, 1-5-6 hen, 6 pl, 6 ckl, on six entries in a strong class.

Pierce & Cushion, Wellington, Ohio, report the following winnings at Columbus in the White Rock Club Show: 1-2-4 ckl, 3-4 cock, 2-4-5 pl, special for whitest Rock male and National White Rock Club cup for best display.

Novak Poultry Farm, R. 1, Racine, Wis., report the following winnings on White Or-pingtons at Milwaukee, Wis., January 3-6, 1918: 1-4 cock, 1-4 ckl, 2-4 hen.

Eugene Smith, 316 Galena Blvd., Aurora, Ill., reports the following winnings on S. C. White Leghorns at St. Louis, January, 1918: 1-3-4-5-6 cock, 1-2-3-4-5 hen, 1-2-4-6 ckl, 1-2-3-4-5 pl, 1 old pen, 1 young pen, cham-pion male and champion female and best display.

E. B. Thompson, Amenia, N. Y., reports the following on Barred Plymouth Rocks at Madison Square Garden, January 1, 1918: 1-2-3-4-5 cock, 1-2-3-4-5 ckl, 1-2-3-4-5 pl, 1-2-3-5 hen, 1-2-3-4-5 pen; sweepstakes champion male; sweepstakes champion female; best colored male; best colored female; best shaped male; best shaped female; best cock and hen; best cockerel and pullet; best five males; best five females; special for best pen; best display; American Poultry As-sociation diploma for best cockerel.

“World’s Champion Layers”

ENGLISH 200 EGG STRAIN

S. C. White Leghorns
S. C. Rhode Island Reds

White Wyandottes
Buff Orpingtons



ANOTHER PROOF

Our 1917 Egg Competition Winners

Our entry of five Wyandotte hens in the North American Egg Laying Competition, just ended, won First Prize and Three Silver Cups. These hens laid 1165 eggs, having these high individual records: 294, 267, 221, 220 eggs. Contest under govern-ment supervision.

Our Champion Wyandotte hen, “Liberty Belle,” laid 294 eggs, winning first prize and cup, and establishing World’s Highest Official Wyandotte Record. Her sister laid 267 eggs, winning third prize and cup against 500 competitors.

Merely another proof of our success in breeding 200-egg layers. Other com-petition winnings:

LEGHORNS—Highest award North American Egg Laying Competition, 100 pens competing, five hens laying 251, 250, 224, 222 and 192 eggs.

REDS—Highest award, in their class, N. A. Contest, five hens laying 1043 eggs, an average of over 200 eggs per hen. Highest Official Red Record known.

WHITE WYANDOTTES—Missouri International Contest, ten birds laid 2006 eggs, over 200-egg average. One layer made a record of 265 eggs.

If you want Leghorns and Wyandottes that lay, if Official Records mean any-thing to you, you should secure our strain. Our Reds and Orpingtons are also won-derful layers. We have many individuals that hold remarkable official records, and this bred-to-lay blood is strong in every bird in our flocks; acknowledged by poultry experts to be the **Most Profitable Poultry in America.**

**Eggs for Hatching
Early Hatched Cockerels
Baby Chicks
Breeding Stock**

Write today for copy of
“The Story of the 200-Egg Hen”

—contains pictures and records of our competition winners, plans of trapnest, feeding formula and other valuable in-formation which will help you make your flock more productive and profitable. Price 10 cents, deducted from your first order.

PENNA. POULTRY FARM, Box A, Lancaster, Pa.

America’s Foremost Breeders of “Hens-That-Lay”



**The Best White Plymouth Rock
AT THE CHICAGO SHOW, 1918**

The first pen at Chicago, Jan., 1917; First prize win-ners at Quincy, Springfield, Peoria; Sweepstake cham-pions. Special for Shape and Color, and numerous other winners of highest honors are in our matings this coming season. Our first prize cock at the Greater Chicago Show is, without any doubt, the best White Rock male ever exhibited anywhere.

EGGS FOR HATCHING

at most reasonable prices from the finest matings in the coun-try can now be ordered with our guarantee of complete sat-isfaction. Our birds have type and color that have proven correct. Our customers are winning with birds of our strain.

STOCK, EGGS, BABY CHICKS. Write your wants and we will gladly quote you prices.

NORTH HILL POULTRY FARM Mrs. Louisa White, Prop. Box A, WASHINGTON, ILL.

Simplex Midget \$ 1.00 Feather Brooder

Postpaid

This Midget Brooder is made to fill a gap between the old "cluck" and the large artificial brooders.

We guarantee that this brooder will raise as many chicks as a "cluck" if placed in a living room or warm basement. It is made to accommodate one setting of 15 chicks, but will take care of 25 chicks for the first week.

Uses for this Brooder

Thousands of people buy baby chicks in dozen lots and have no place to properly brood them until they can take care of themselves. This Midget Brooder will take the place of the hen and raise them.

Many times a poor hatch comes out of an incubator or a few weak chicks de-



The feather hover inside can be raised and lowered to suit the size of the chicks.

mand special attention. It is a good deal of trouble to raise a few chicks in a big brooder. Why try, when you can get this Midget Feather Brooder to raise them without trouble?

When the old hen deserts her chicks, that's another time the Midget Feather Brooder is worth its weight in gold.

Construction

The body of this brooder is made of germ proof fibre board; the top and bottom are made of best grade of corrugated board and the feathers are genuine down feathers, the same as used in our larger Simplex Perfection Feather Brooders; and this brooder is guaranteed to raise every chick worth raising.

Send one dollar today and let us send you one by parcel post, prepaid. Money will be refunded if you are not satisfied. Also ask for our catalog of larger brooders and other poultry supplies.



Note the thickness of the downy feathers which warm the chicks.

SIMPLEX SUPPLX HOUSE, Pontiax Bldg. Chicago, Ill.

GOVERNMENT URGES EARLY HATCHES.

Get Your Incubators Busy. — Eggs and Poultry Higher Than Ever Known and Feed Going Down. — Pullets in the American Egg-Laying Contest Just Making Good Start.

T. E. QUISENBERRY, Leavenworth, Kan.

THE United States Government wants you to raise more poultry and produce more eggs. The United States Department of Agriculture is urging poultry men to get off some early hatches. The early hatched birds are easier raised, you avoid many of the deadly parasites and enemies of poultry and your birds mature early enough to make good fall and winter layers. So get out your old incubators and clean them up, or, better still, perhaps, is to buy a new one that has all the improvements and which will turn out strong, vigorous chicks. We urge you to do your best this season, for we believe it will pay. Eggs and poultry have been selling for more than they were ever before known to sell, and feed has gradually been declining in price in most sections.

It behooves every poultryman to use such methods in raising his stock as will insure the lowest percent of mortality and the quickest growth. Brooder stoves of many kinds are upon the market and several of these are giving excellent satisfaction. We know of some who use two of these stoves, of small size, in one room. Then if one stove goes out, the other will protect the chicks and prevent chilling. For this method of brooding, we build a house 10 x 20 feet or 12 x 24 feet. The house has a partition in the center with the board nearest the floor on hinges so it can be raised as a runway for the chicks and a swinging door for the attendant. The stove is placed on one side of the partition and cool room is used for feeding and exercise. It is necessary to have a cool room so the chicks can get away from the heat. This is one of the secrets of successful brooding. Or you may use one room that is long and narrow. Place the stove in one end and the other end remains cool.

The houses for these brooder stoves are built just as we would build any laying or breeding house. We would not build a special brooder house which we could only use three or four months during the year and then let it remain idle for the remainder of the time. Every poultryman should endeavor to have as little idle equipment as possible. We locate the buildings where the chicks can have plenty of range after they grow up. As soon as they

Officially Certified Winter Layers

252 Eggs
11 Mos.
American

Patriotism and poultry profits this year lead you direct to Shorewood—Rhode Island Whites and Buff Leghorns (Hesley's Original). Our 1918 mating list is choke full of information for you about the famous Shorewood R. I. Whites, which are repeating their enviable official contest records, and Dr. Hesley's Egg-Bred winners in Buff Leghorns now bred at Shorewood under his continued management. Third time champions at Chicago, Dec., 1917. Write for your copy now! Shorewood stock, eggs and chicks will help you be patriotic and make money too.

242 Eggs
10 Mos.
Missouri

Shorewood Farms Co., 82 Shorewood Road, Saugatuck, Michigan

S. C.—Arlington Strain—Reds

OUR SEASON 1917-18 WINNINGS: New York State Fair—1st cock, shape special, 4-5 hens, 5th pullet, 3rd pen and 2nd best display. Madison Square Garden—3rd cock, 3rd hen, 4th cockerel (51 in class), 2nd pullet and 3rd best display. 100 fine cockerels, all pure Arlingtons, for sale. We have 10 of the strongest S. C. Red matings to be found on any one farm in America, from which eggs will be sold without reserve. For catalog, and prices address

JOHN E. MACK

Box B

ARLINGTON, DUTCHESS CO., N. Y.

Partridge Rocks

Send a stamp for either Partridge Rock or Turkey Catalog.

Bronze Turkeys

Again They Win at Madison Square Garden

Where the cream of the highest class fowls of the nation come, in the great preeminent show, Bird Brothers again demonstrate the superiority of their strains by winning as follows:

Partridge Plymouth Rocks 1-2 cock; 1-2 hen; 1-2-3 cockerel; 1-3 pullet; 1 pen. | Bronze Turkeys 1-2 cock; 1-2 hen; 1-2-3 cockerel; 1-2-3 pullet.

EGGS, SHOW AND BREEDING STOCK

BIRD BROTHERS

Box "C"

MEYERSDALE, PA.

are old enough to do without heat, we simply remove the brooder stove and put in temporary roosts. The chicks remain right in this house until the next fall or winter when it comes time to cull them and to select the choicest for the laying and breeding pens. A flock of pullets are usually wintered in these houses. Nests can be put in temporarily until the houses are needed again for next season.

By handling the chicks in this way you avoid handling them so often they become accustomed to their quarters and you do not check their growth by moving and you are getting the benefit of your equipment throuth the year. It is easier and better to move the stove to another house than it is to move the chicks and have the house vacant for eight months. We know of one party who lost an entire flock last year simply because they crowded, as the result of being moved six times, contracted colds and suffered in other ways.

Tack cloth over the ventilators and make the house comfortable and provide for ventilation near the floor, but avoid drafts. Be certain to provide for one cool room. If the chicks have a tendency to cannibalism and pick at one another's toes, paint the window panes with a bluish or whitish frosting. You want light in your brooder house, but not the direct rays of the sun. Keep the chicks busy and active. Put some fresh earth on the floor in one corner of the room. If they show signs of developing the habit of picking at one another, grind some lean meat and mix equal parts of bran, shorts, corn meal and ground meat with

a little water, just to moisten it a trifle. After it is mixed run it thru a sausage mill or meat grinder and then feed it to the chicks every day. The frosted windows will do most to prevent cannibalism. You will not be troubled with the chicks piling up and crowding at night in a room where you use these brooder stoves if your room is kept warm enough. Don't feed chicks until about 48 hours after they are hatched and dry. One of the first things should be sour milk or buttermilk and coarse sand. Cover the floor of the brooder with clover chaff or fine cut straw. Don't have this too deep. For the first two or three days, feed a mixture of two-thirds rolled oats, one-third wheat bran mixed with hard-boiled eggs and a little powdered charcoal and fine bone meal. Feed a little about five times a day for the first three days. The first mixture is fed morning, noon and night and the chick feed between meals.

As they become older gradually eliminate the rolled oats until you use only the chick feed, and keep before them a dry mash in the following proportions: 10 lbs. wheat bran, 2½ lbs. ground oats, 5 lbs. shorts, 5 lbs. corn meal, 2 ounces fine charcoal and 2 ounces fine salt.

If you cannot secure sour milk or buttermilk, then mix two pounds of dry beef scraps with the above. If you use any form of milk, keep it before them at all times or at least the first half of the day. They need some green food. Use clippings from sprouted oats or cut up some onions occasionally. The above methods have proved simple and successful.



Water

WHERE and WHEN you want it the year 'round. For house, barn, field, any place. **BORE YOUR OWN WELL** with our time-tested

Standard Well-Boring Outfit
Easily operated by hand. Bores wells 8 to 16 in. dia., 40 to 100 ft. deep. One man bored 40-ft. well in 10 hours. Another bored 2 wells each 64 ft. deep and wrote "beats expectations."

BORES 100 ft. WELLS by hand

Thousands used on war front by U. S. and English Governments.

ONE DAY'S WORK PAYS FOR OUTFIT
Easy to get 50 cents to \$2 per ft. — make \$20 to \$30 per day boring wells for neighbors. One man bored 45 wells—another has 8 ordered, another 6. Satisfied users in 46 states. Every claim guaranteed and proved. Write now, TODAY, for full information.

The Specialty Device Co.
Dep't 54, 106 W. 3rd Street, Cincinnati, O.

S.C. REDS

Of Highest Quality, Strength and Vigor
Show Birds, Breeders, Eggs for Hatching
Prices are reasonable and quality guaranteed.
Write me your wants.

J. H. BATES, 305 Broadway, Watervliet, N. Y.

ENDORSED, RECOMMENDED AND USED BY AMERICA'S MOST SUCCESSFUL POULTRY RAISERS

Licene Exterminates all Chicken Lice as if by Magic

When such breeders as Mrs. Helen Dow Whitaker, E. B. Thompson, Dr. N. L. Smith, A. C. Hawkins, O. F. Mittendorf, Prof. T. E. Quisenberry, Len Rawnsley, U. R. Fisel, A. A. Carver and thousands of other big breeders that have had years of experience in raising poultry, endorse and use a preparation as the best, it must have exceptional merit, and will do all that is claimed for it.

LICENE Makes Hens More Profitable

No hen can lay her best when tormented by lice. Kill the lice and watch the increase in your egg production. John G. Poorman, Tinley Park, Ill., the owner of "Lady Show-you," the \$800.00 hen, and breeder of the celebrated 200-egg strain, writes:

"Lice is the one great factor in determining success or failure in the poultry business. If exterminating lice means success, and it surely does, LICENE should be given all the credit. I would as soon be without feed as without LICENE, for without either profitable egg farming is not a success."

LICENE Cheapest Lice Killer Known

Price, 60c a Tube, Postpaid Sufficient for 150 to 200 Fowls

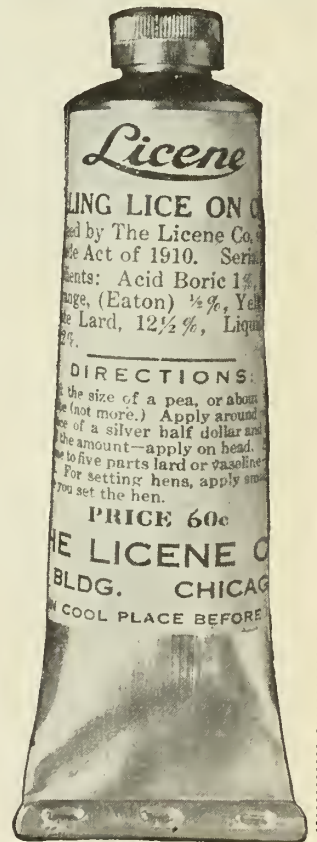
LICENE is applied twice a year, but many report that they have found one application a year sufficient. When you stop and consider that one tube is sufficient for 150 to 200 birds, you must realize that LICENE is cheaper than lice powder and liquid lice killers. It is also more conveniently handled and more easily applied, saving time, labor and money, making LICENE not only the best but cheapest lice exterminator the world has ever known. Put up in collapsible tubes, which prevents waste. Remember LICENE will not injure the birds in any way or destroy fertility of eggs, so with our positive guarantee you take absolutely no risk in giving LICENE a trial.

Positive Satisfaction Guaranteed or Money Back

If Licene does not destroy every louse and "nit" (egg of a louse) or does not clean scaly legs on your chickens, or if applied on sitting hens, and does not prevent head lice on chicks—you are the judge—we will refund your money if you notify us (or our agent) within one month after receiving Licene and no questions will be asked.

The Poultry Doctor FREE This little book is worth its weight in gold to any one raising poultry. Thousands of poultry breeders are following its suggestions with success and profit. It contains 16 different tested and proven formulas of remedies for diseases common among fowls. It is invaluable to the beginner and experienced breeder alike. Remember it is absolutely FREE, so just send your name and address for it.

THE LICENE CO., 1500 Pontiac Bldg., CHICAGO, ILL.



Stop Hatching Weak Chicks

With Cheap Incubators

Remember it is not how many you hatch that counts, but how many you **raise**.

Chicks that hatch out **weak and wobbly**, and live but a few days, mean nothing to you except trouble and loss. They make one sick of the poultry business.

Most of the chicks you lose in the first two weeks die because they did not hatch out with enough vitality or strength for a good start.

QUEEN Incubators

HATCH CHICKS that LIVE and GROW

The Queen is accurately regulated—taking care of a temperature variation of 70 degrees without danger.

It is built of genuine California Redwood—very scarce in these days of imitation and cheap substitution.

Redwood **does not absorb the odor** from the hatching eggs. Cheaper woods, and pasteboard lining in iron and tin machines, **retain the odors**, to weaken and kill the hatching chicks.

Don't Buy ANY Incubator Until You Check It Up with the Queen

Some Machines are made of galvanized iron, or tin, or cardboard, or other cheap material that gets hot or cold quickly, absorbs odors, moisture, etc., and is liable to kill or weaken the chicks after the first few hatches.

The Queen is made of California Redwood, the best material ever discovered for incubators. Of course it costs more.

Some Machines have only one real wall and consequently are not properly insulated.

The Queen has double Redwood walls, the space between being filled with corrugated strawboard, making perfect insulation.

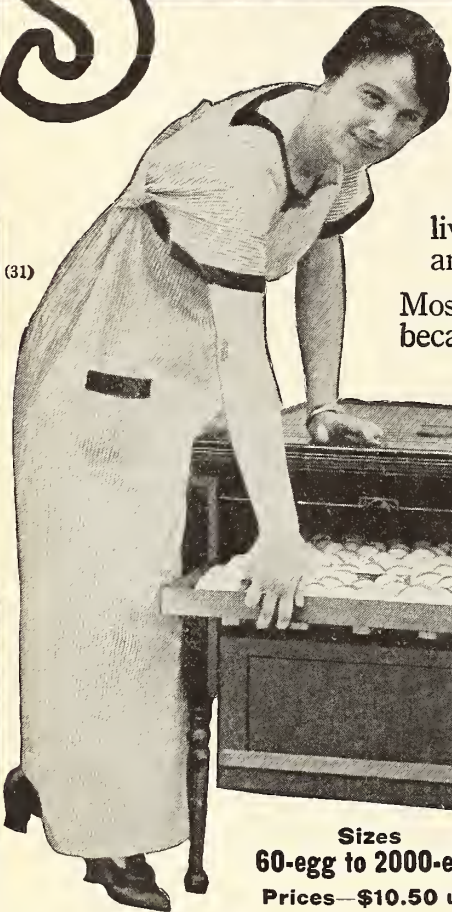
Some Machines regulate only when temperature is uniform and everything runs right.

The Queen Regulator is a wonder. It will take care of a heat variation of 70 degrees.

Start Your Chicks with a Queen Constitution

and they will make money for you. The Queen is not a cheap incubator, compared with many of the cheaply constructed machines on the market, but it is **cheap in the long run**. It will be turning out high percentage hatches years after the cheap machines have been junked. Sold by dealers. Catalog sent free on request.

QUEEN INCUBATOR CO., Lincoln, Nebraska



Sizes
60-egg to 2000-egg
Prices—\$10.50 up.

Not a Single Complaint

Queen Incubator Co., Lincoln, Neb.

Gentlemen:—During the many years you have been advertising Queen Incubators in the columns of American Poultry Journal, we have not, to the best of our recollection, received a single complaint from one of your customers. *American Poultry Journal*.

Not Even an Expression of Dissatisfaction

Western Poultry Journal, Cedar Rapids, Ia., writes: "In all these years that the Queen Incubator has been advertised in Western Poultry Journal, we have as yet to receive the first expression of dissatisfaction from any of our subscribers. We think this is a splendid recommendation, not only for promptness and business ability, but for the quality of Queen Incubators."

The Best—East or West

John Bowen of the Colorado Poultry Fanciers Association, wrote: "Last season the writer installed a Queen as an experiment, and found that it hatched 18 per cent better than Eastern made machines and 11 per cent better than any machine built in the West. All of the machines were run under exactly the same conditions."

THE BREEDERS' CONTEST.

The great laying and exhibition strains that we have today were not bred in a year nor in a day. It required much thought and labor to accomplish what some of the breeders who have entries in this contest have produced. Even tho the birds are properly bred, in shipping, in getting accustomed to their new quarters, new climate and new surroundings, the birds may be temporarily thrown off feed or out of condition and suffer a check or drop in egg yield. But if all would look at the matter as one of our broad-minded contestants expressed himself, there would exist a most pleasant spirit of helpfulness and co-operation between this school and the owners of all birds entrusted to our care. This splendid man said: "You will not find me too critical. I feel confident; in fact, I shall abide by results without a whimper. I am not over-sanguine, have gone into the thing in the proper spirit, I believe; I only hope that the pullets I sent will help justify the belief which you and I both entertain that poultry can lay well and look well—a belief which will not be dispelled in my own case even if the coming contest happens not to support it."

Each contestant must realize that unavoidable conditions will arise and accidents will happen and that it is just as much to our own credit to get a good egg yield as it is to himself, and we are just as anxious as he can possibly be to see that his birds keep in good health and produce maximum results.

A Light Sussex pullet, No. 482, from Ohio, won highest honors for December with 28 eggs. The pen of which she was a member won the monthly record with 104 eggs. The five highest pens in this contest were as follows:

Pen No.	Eggs.
48—Light Sussex, Ohio.....	104
27—White Orpingtons, Ohio.....	92
26—White Orpingtons, Indiana.....	87
43—White Wyandottes, Illinois.....	86
35—R. I. Whites, Illinois.....	82

The varieties entered in this contest made the following averages for December:

AVERAGE EGGS PER PULLET.

White Leghorns.....	9
Brown Leghorns.....	7
Black Leghorns.....	9
Buff Leghorns.....	13
Anconas.....	4
Buff Plymouth Rocks.....	4
White Plymouth Rocks.....	4
Barred Plymouth Rocks.....	7
White Orpingtons.....	13
Single Comb Reds.....	6
Rose Comb Reds.....	9
Rhode Island Whites.....	12
Silver Wyandottes.....	7
Columbia Wyandottes.....	3
White Wyandottes.....	12
Light and Red Sussex.....	14
Speckled Sussex.....	7

Some of the averages were reduced because the pullets were not mature and had not started to lay.

YEARLING HEN CONTEST.

The hens in this contest all made good records last year. As a result, they were late in moulting and some are not thru yet. We, therefore, cannot expect many eggs for a few weeks yet. There ought to be some of these hens that will go over 200 eggs in their second year. The best hen for December was a White Rock from Kansas, which laid 24 eggs. The best pen was a pen of Black Langshans from Kansas that laid 91 eggs.



The best White Plymouth Rock at Chicago Show, January, 1918. Owned by North Hill Poultry Farm, Washington, Ill.

WHITE LEGHORN CONTEST.

We had the coldest and severest winter weather in December that has been experienced in this section in more than thirty years. At the beginning of the month the temperature took a sudden drop and stayed below zero for several days. The Leghorns being a small and close-feathered bird seemed to suffer

most and many pens that had begun to lay well suddenly dropped to nothing. This ruined our egg record for the month. This was simply because the birds were not accustomed and hardened to such weather. Their egg record then began to climb back and at the last of the month, even tho a second spell of the same sort of

OTTO

White ORPINGTONS

Winners at Indianapolis, Terre Haute, Indiana State Fair and Chicago Coliseum

Cockerels from my finest blood lines at special prices to make room for breeding pens. Eggs for the coming season from the greatest pens of all my ten years' experience. Price still the same—\$5.00 per 15, guaranteed. Send your name in early for my illustrated mailing list. WILLIAM N. OTTO - - 4815 Central, INDIANAPOLIS, IND.

1907 : 1918

S.C.W. Leghorns Light Brahmas Rouen Ducks

A fine lot of cockerels at very reasonable prices. Introduce the best blood into your flock.

A grand lot of birds for sale, both young and old. This grand old breed has both size and productivity.

These beautiful birds are an ornament as well as an asset. They grow like weeds. Finest specimens.

Hatching Eggs From the Above Varieties

All have free farm range and are well developed. They are all kept on my own farm, under my personal supervision. C. C. NYE R. R. 1, Box A HARRISTOWN, ILL.



First prize Barred Plymouth Rock hen at Fredericksburg, Va. Owned by C. N. Myers, Box A, Hanover, Pa.



First prize Silver Gray Dorking cockerel at Madison Square Garden, 1917-18. Owned by Watson Westfall, Sayre, Pa.



Buff Orpington 1st pullet, shape and color special, Quincy, Ill., 1917. Owned by D. L. Warner, Little York, Ill.



Second pen male White Wyandottes at Madison Square Garden, 1917-18. Owned by J. W. Andrews, Dighton, Mass.

FUL-O-PEP

GROWING MASH



A GREAT many people think because a little chick likes to "scratch and pick"—that cracked wheat, cracked corn or scratch feeds are the best feeds for young chicks. *That's a wrong idea.* This old-time fallacy has played havoc with poultry profits too long. More chicks die from improper feeding than any other cause. *The losses are enormous.*

For years our poultry feed experts have been experimenting to find a feed which would change this deplorable condition. They studied the habits and physical weaknesses of chicks—tested numerous feed formulae and finally discovered that OATMEAL (without hulls) when properly balanced with beef scraps, bone meal, green feed and other protein ingredients, not only agreed perfectly with the delicate digestive organs of young chicks, but

made them *grow much bigger*, faster, sturdier, healthier— hastened maturity and developed *earlier, better laying pullets.*

This new OATMEAL feed, FUL-O-PEP GROWING MASH, which is a finely ground, *easily assimilated* feed, is fast changing the "old-time" grain feeding practice, which has played such havoc with poultry profits. It is without doubt the best growing mash ever placed at the disposal of poultry keepers.

OATMEAL The Big Successful Poultrymen's Secret of SUCCESS with Chicks

Poultrymen like Thompson, Fishel, Felch, Dann, Kempster, Lambert and numerous others are wise to the superior value of OATMEAL for little chicks. They all use and recommend it.

Prof. A. B. Dann, of Cornell University, says: "When hulls are removed from oats (oatmeal) we have one of the finest feeds we know of for little chicks."

E. B. Thompson, says: "I consider Oatmeal a valuable ingredient for a poultry food for both young chicks and laying hens."

U. R. Fishel, says: "Any poultry food that contains plenty of oats (oatmeal) is bound to make good growing feed."

FUL-O-PEP GROWING MASH, for chicks and young fowls, goes several steps further than the big poultry raisers' method. While its base is finely ground OATMEAL, we have added other necessary ingredients—animal foods, bone and muscle foods, green foods, etc., all so skillfully balanced that it makes chicks grow faster, bigger, healthier.

After your chicks are ten days old give them all they will eat. You cannot over-feed it. *Keep it before them all the time.* They will "go to it" just like feasting on bugs, insects, worms and green stuff when on free range, only in this feed we have given them many more good things than they could possibly pick up on free range.

GROWING MASH — Not Grain Feeds — MAKES CHICKS GROW BIG

The big successful poultrymen no more think of raising chicks without a GROWING MASH than they expect to get eggs without feeding an egg mash.

For chicks just hatched, after three days on bread crumbs, feed FUL-O-PEP CHICK FEED which consists of finely granulated corn, wheat, pin head oatmeal and fish scraps. You will find it gives them a fine start.

For laying hens you will find FUL-O-PEP DRY MASH and FUL-O-PEP SCRATCH GRAINS so much superior to anything you ever used there is no comparison. Ask your dealer for FUL-O-PEP FEEDS—if he can't supply you, write us.

Just fill out the coupon and get our New Free Poultry Calendar. It is said by the "WISE ONES" to be the best book on poultry feeding ever published.



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Kindly send me your 1918 FUL-O-PEP Poultry Calendar.

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The Quaker Oats Co. Address: Chicago, U.S.A.



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Rose and Single Comb

Brown Leghorns

Records, 200 to 266 eggs. Big birds, large eggs.

Rose Comb Whites, 244 egg line. Eggs large as Single Comb Whites.

Single Comb Whites, 288 egg line, large white birds, large eggs.

Barred Rocks, 270 egg line.

S. C. Reds, 243 egg line, fine large birds and large eggs.

White Wyandottes, 245 and Silver cup. Eggs \$2 to \$7 for 15; \$10 per 100. Catalog.

W. W. Kulp, Box 70, Pottstown, Pa.

weather was experienced, the Leghorns laid right on thru it and made an increase each day and when the month closed their daily yield was in excess of any Leghorns we had ever had in any of our previous contests. This would indicate that after Leghorns are hardened and are properly cared for you can expect satisfactory results from them, even in the severest months.

The highest individual was pullet No. 784 from Washington with a record of 26 eggs. The five highest pens of five pullets each were as follows:

Pen No.	Eggs.
70—White Leghorns, Washington	83
121—White Leghorns, Pennsylvania	77
74—White Leghorns, Kansas	75
131—White Leghorns, Missouri	63
110—White Leghorns, Pennsylvania	65

Fourth Arkansas State Egg-Laying Contest.

THE fourth Arkansas State Egg-Laying Contest started with five breeds and eight varieties represented. The Single Comb White Leghorns are in the majority, with five pens. The Rhode Island Reds are second with four, White Rocks three, while Barred Rocks, Columbian Rocks and Single Comb Brown Leghorns have two each, and the White Wyandottes and Partridge Rocks one each. The five White Leghorn pens represent four strains.

The pullets as a whole were not as well developed as the pullets were for the third contest. Six pens did not lay during November, while a good many of the pullets in other pens did not lay, either. Only 45 percent of the pullets have laid. This was due not only to the birds being immature, but also to the fact that so many were not shipped until the first of the month and therefore would not start laying until they became accustomed to their new surroundings. Those that were well developed and were received about the middle of October started laying early in November and have done very well. All the birds are in good health and no doubt will be laying well before December is very far gone.

The ration which is being fed this year is about the same as that of the third contest. The scratch feed is made up of two parts of cracked corn and one part of whole wheat by weight. This will be somewhat different in the spring, when the corn will be lowered and the amount of wheat increased. The dry mash contains equal parts by weight of the following: Wheat bran, shorts, corn meal, ground oats and meat scraps. To this mixture is added about a pound of salt to 500 pounds of the mixture. Sprouted oats are fed to supply the green succulent material to the ration.

This department is preparing a poultry breeders' directory and ask that each breeder please send in his name, address and the breed and variety of poultry that he is breeding. This is being done for your benefit, so please help us make this list complete by sending in this information at once.

S. R. Stout,
Assistant in Poultry Husbandry,
Fayetteville, Ark.

Boys' and Girls' Poultry Clubs.

Editor AMERICAN POULTRY JOURNAL.

Dear Sir: I believe that thru printing this we might be able to bring about a change that surely would in the end put the poultry industry on a better footing. I am writing to you because I know it will be bound to reach the people at the head and cause them to seriously consider this need.

There should be a change made in the laws of the Boys and Girls' Clubs. A boy or girl in this town cannot belong to the Boys and Girls' Club that meets in the very town in which he lives. In other words, this club is a country club to which town or city boys cannot belong. This club is making farming and poultry culture more interesting and profitable for the boys and girls who tomorrow will supply the American

ROCKDALE

Better Bred for 17 years—By Us

White Plymouth Rocks

Cockerels

Very fine values at \$5 each—a few lower in price, some higher. Satisfaction guaranteed at every price. They are backed by years of breeding for eggs, meat and show points.

Our birds win everywhere, in our's and customer's hands.

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1917-1918—Single Comb

Brown Leghorns

My birds win, wherever shown, against the best S. C. Brown Leghorns in the world. I have a few good cocks, hens, cockerels and pullets for sale from \$5 up.

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Also a few prize-winning Indian Runner and Buff Orpington ducks. Write for mating list and catalog.

My strain is as good as the best and better than the rest.

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Winners at Chicago Coliseum, Kansas City, Omaha and Des Moines. Write for Circular.

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Address, J. R. HUDSON, Hardin Springs, Ky. We have saw samples of Mr. Hudson's printing. It is very nice; he is perfectly honest.—EDITOR.

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At Iowa Buff Orpington Club Show, I won Sweepstakes and Young Pen.
At Iowa State Show, 1917, I won 1st and 2d Pen, 1st Pullet, 1st Cock, 2d Cockerel, 5th Hen.

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Send for mating list and prices

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Springville Iowa

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True colors. Correct sizes

Dark Blue Light Blue Yellow
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Baby Chicks	\$.10	\$.20	\$.30	\$.50	\$.1.10	\$.2.00
Growing Chicks	.10	.20	.35	.55	1.30	2.25
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45 Varieties

LAND AND WATER FOWLS
Send for free illustrated catalog, which tells you much you should know. Stock and eggs at all times. Mention A. P. J.
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Aluminum, numbered to suit, with large raised figures. Postpaid 100-60c, 50-35c, 25-20c, 12-15c. Initials extra, 10c per letter per 100; 50 or less 5c. More than one initial with cut figures. Circular free giving price on Small Chick, Superior, Riveted and Pigeon Bands. Sample for stamp.
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Colored Big Double Number Poultry and Pigeon Bands. New coil Baby Chick Bands—no numbered. 12 colors. Try the modern way, you will like them. Very efficient. SAMPLES FREE.

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table. However, this does not keep the country boys from going to the city in many cases. We need farmers as we need no other industry, and we need more of them. They would, by extending this membership to the town boys and girls, induce many to go to the farm. This club's head wanted our Junior department to be open only to the Boys and Girls' Club. I mean that if we had made this provision, boys and girls in the very town the show was held could not have entered their chickens. Why be so close, stingy or one-sided? Isn't the city boy as good as the country boy or girl? Doesn't the city taxpayer's money go as far toward the existence of the Department of Agriculture and thru it the Boys and Girls' Clubs, as does the farmer's money? It is time that somebody woke up, dropped all partiality and made the Boys and Girls' Club in reality an American organization from which the country and city boy alike could derive the benefits.
W. A. PARSONS, JR.,

A Plea for the Light Brahma.

WE SO seldom see anything written in behalf of the Light Brahma that I wish to say a few words for them.

In these times of such strenuous efforts for production, I am sure that my favorite breed of chickens is not receiving its due amount of notice.

In the first place there is not, in my opinion, a prettier bird in the long list of domestic fowls than the Light Brahma. It is true that they are not a success as a range fowl for the farm, but in the crowded rural districts and the small town lot, where they must be kept in close confinement, there is not, to my knowledge, a breed of chickens that will equal them in weight and egg production. They require just such confinement to make them do their best, for they are not an active bird and will wait to have their wants supplied. They are easy to keep in restricted quarters because of this.

Contrary to general opinion, they do not consume any greater amount of feed because of their larger size, than the smaller, more active birds do. The smaller, more active birds use up feed to produce the energy that gives them the activity, while the less active Brahmas, given a properly balanced ration, do not waste any of this for unusual activity, but turn it into weight and eggs.

The Light Brahma is usually a winter layer, but my hens have given equally as good returns in summer. I have had them begin laying early in January and continue, with scarcely a day's intermission, until late in November. I have never had any of the smaller, more popular breeds do better.

Given a balanced ration, which, for the Light Brahma, must include an extra supply of shell—they are more imperative in their demand for this than almost any other breed—and I prefer them to any other for the small lot, or for a fowl that must be kept in confinement.

MRS. E. SEPTON,

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RHODE ISLAND REDS 251	GENUINE OFFICIAL RECORDS	BARRED ROCKS 263
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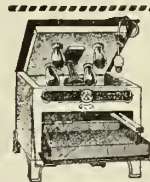
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S. C. ANCONAS—Sheppard Strain, heavy layers. Pen 1, 15 eggs, \$2; 30, \$3.50; 50, \$5. Flock, 15, \$1.50; 100, \$7. Ella Whitwood, Hudson, Ill. 2-5

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SINGLE COMB ANCONAS—Eggs for hatching; satisfaction guaranteed. Write for circular. The Bradleys, Britton, Mich. 2

BEFORE ORDERING your Single Comb Anconas consider my bred-to-lay strain; eggs \$2 per 15; chicks, 25c each. Jos. Hughes, Irving, Ill. 2-4

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TRUE BLUE ANDALUSIANS (the beauty breed—the birds that lay and pay) bred from and for prize winners with pure blue and finely laced markings; large, weighty, white eggs and lots of them all year. Settings, first pen, \$2.50; second pen, \$1.50 per fifteen eggs; hundred lots special price. Gus A. Kneuss, Ottawa, Ill. 2-5

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SINGLE AND ROSE COMB Rhode Island Red baby chicks from heavy laying strain. Mrs. Ray Marr, Chatsworth, Ill. 2

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GIANT S. C. BLACK Minorcas—Good stock, heavy laying strain. Pen 1, 15 eggs, \$3; 30, \$5; 50, \$8. Flock, 15, \$1.50; 50, \$4; 100, \$7. Ella Whitwood, Hudson, Ill. 2-5

ROSE COMB BLACK—Pin headed, second cockerel, Coliseum, 1917; eggs. Jim H. Howell, Sharon, Wis. 2

CHAMPIONSHIP ROSE COMB Black Minorcas. Stock and eggs. Reliable Poultry Farm, Springfield, Minn. 2-4

BUFF MINORCAS

BUFF MINORCAS—See display ad page 189. Walhalla Poultry Farm. 6-2

BUFF MINORCAS, SPECIALS, pens, \$15 and \$20; eggs, \$2, \$3 and \$5 per setting; chicks, 25c and up; Coliseum winners. William Williams, 1102-A West 52, Los Angeles, Calif. 2-4

WHITE MINORCAS

RICKLAND POULTRY YARD, Waynesville, North Carolina, single comb White Minorcas exclusively; eggs, \$2; cockerels, 1-4

MEISELBACH'S SINGLE AND ROSE Comb White Minorcas; won at the great Coliseum show, 1917, 5 firsts, one third prize. Choice stock for sale; egg orders booked now. Harry Melseibach, Melrose Park, Ill. 1-3

ROSE AND SINGLE COMB White Minorcas. Madison Square-Chicago winners. Thos. Brogden, Rush Lake, Wis. 12-2

WELLS STRAIN, BIG BONE, long back, stay-white hens, cockerels, pullets, from our winners. Eggs \$2.50, \$5, \$10; utility \$10 hundred. Wells & Wells, Muskogee, Oklahoma. 12-2

ROSE COMB WHITE Minorcas; winners of blue ribbons at the Chicago Coliseum, 1917; eggs for hatching. W. E. Haase, Omro, Wis. 2-4

ROSE COMB WHITE Minorca cockerels; blue ribbon winners; \$3.50 each. Eggs after February. Carolina Poultry Farm, Mountville, S. C. 2

ROSE COMB WHITE Minorcas—Size, shape and color; mating list. F. W. Schmidt, Princeton, Wis. 2-4

BLUE ORPINGTONS

A PRIZE FOR EVERY bird 3 years in succession. Won all prizes offered at Greater Chicago Show, January, 1918. Eggs from all winners pen, \$15; 2nd pen, with two winners, \$10. S. Linderoth, Architect, Chicago, Ill. 2

BLUE ORPINGTONS—Dubuque, Ia., winners. Robert S. Lampert, Lena, Ill. 2-4

BUFF ORPINGTONS

BUFF ORPINGTONS—Seventeen years a Breeder. Best Exhibition Egg Producing Strain. Eggs or Baby Chicks. Circular free. Will Schadt, Goshen, Ind. 1-4

SINGLE COMB BUFF Orpington cockerels. Splendid color and size, good combs. \$5 to \$15 each. W. J. Wilder, Maxwell, New Mex. 12-2

S. C. BUFF ORPINGTONS—Cockerels, \$3 and up. Pullets, \$2 and up. Eggs in season. Albert Smith, Sheldon, Ia. 12-2

SUPERIOR QUALITY BUFF Orpingtons, win at the largest shows. I am conducting a \$5 cockerel sale that will interest you; also eggs for hatching. Write. Howard Schultz, Michigan City, Ind. 2-4

SINGLE COMB BUFF Orpingtons for sale; fifteen years a breeder and importer; fifty extra cockerels at a bargain this month. Dr. C. Powell, Elsherry, Mo. 2

FANCY BUFF ORPINGTON cockerels, \$10, \$5, \$3; catalog free. Clarence Steckel, White Hall, Ill. 2

SPLENDID EARLY HATCHED S. C. Buff Orpington cockerels, Cook strain; a bargain at \$5 each; order direct. S. C. Buff Orpington Farms, South Milford, Ind. 2

BUFF ORPINGTONS—Winners of 25 ribbons this season at Illinois and Iowa State Club Meets, Illinois State Fair and Streator Show. Big utility cockerels, \$3 each. Logan Baird, La Mollie, Ill. 2

HAAKON POULTRY FARM—Single Comb Buff Orpingtons. Cockerels, hens, pullets, \$3 each. If not worth twice the money, return them. Wydell & Wydell, Roland, Ia. 2

BLACK ORPINGTONS

FOR SALE—To close out, 25 prize winners, Rose Comb Black Orpingtons. Ira Blake, Kewanee, Ill. 2

BLACK ORPINGTONS FOR SALE—Write your wants. Prices reasonable. Satisfaction guaranteed. P. M. Chapman, Alma Center, Wis. 12-2

WHITE ORPINGTONS.

CLOSING OUT SALE—S. C. White Orpingtons; pullets, hens and cockerels, \$2 to \$3 each; 12 pullets and one cock for \$25. G. K. Keller, Mountain Home, Ark. 1-3

PRIZE WINNING SINGLE Comb White Orpingtons; great layers; eggs, \$1.50 to \$5; chicks, 25 for \$5; cockerels for sale. W. A. Burris, Bluffton, Ind. 1-3

SINGLE COMB WHITE Orpington cocks, \$2; 7 to 9-lb. cockerels, \$3, \$5. Frank Weinschenk, Highland Stock Farm, Bellevue, Ia. 11-2

PARKER'S PEDIGREED WHITE Orpingtons. Trap-nested 200-egg hens mated to 319-egg male. Catalog. J. S. Parker, Route 4J, Plain City, Ohio. 12-2

ROSE COMB WHITE Orpington cockerels, \$2 and \$3. Good stock. Henry Peterson, Wallingford, Iowa. 12-2

ALDRICH'S QUALITY LINE—Cockerels, \$3.50 up; pullets, \$2 up. Mention quality wanted. Art. F. Linders, Baldwin, Ill. 12-2

SINGLE COMB WHITE Orpingtons, White Leghorns and Rhode Island Reds; stock and eggs of quality. A. G. Davison, Box APJ, Grand River, Iowa. 2-5

SINGLE COMB WHITE ORPINGTONS—Winners at Quincy, Ill., show, 1917; eggs for hatching; send for mating list. Hermar J. Wulfmeyer, Quincy, Ill. 2-4

ALDRICH'S STRAIN—Pullets, \$2; eggs, \$1.75; choice mating, \$3. W. Pifer, Juneau, Wis. 2-3

ALDRICH AND OWENS Farm White Orpingtons; cockerels, \$3 and \$5; two \$3 cockerels, \$5; eggs, choice matings, \$2; \$7.50 per 100; free range. Sunnyside Orpington Farm, Sandwich, Ill. 2-4

WHITE ORPINGTON EGGS—Write for catalog. Elm Grove Poultry Farm, Glen Ellyn, Ill. 2-4

WHITE ORPINGTONS — WINNERS at Tri-Cities and Iowa State shows; choice pullets and other stock for sale; hatching eggs after Feb. 15; satisfaction guaranteed. L. H. DePrates, Fancier and Breeder, Route 1, Davenport, Iowa. 2-5

LANDERS' WHITE ORPINGTONS—First quality, reasonable prices; hatching eggs; also a few choice birds. Write me your wants. Fred Landers, Schenectady, N. Y. 2

ALDRICH'S ORPINGTONS—Eggs, \$2, \$3, \$5. Mrs. Amos, Kendallville, Ind. 2-4

ALDRICH AND BYERS STRAINS S. C. White Orpingtons. Eggs for hatching, \$2, \$5 and \$7 per setting. Write for mating list. A few good cockerels left. R. W. Miller, Morton, Ill. 2

S. C. WHITE ORPINGTONS — Aldrich Strain. Great layers. Good type and color. Special pen headed by cockerel direct from Aldrich Farm, 15 eggs, \$5. Second pen, 15 eggs, \$3. Vigorous, free range farm flock, \$10 per 100. Fertility and satisfaction guaranteed. Mrs. Chris. F. Ruthenbeck, Route 2, Joliet, Ill. 2

CRYSTAL WHITE ORPINGTONS — Bred for laying and size. Satisfactory hatch guaranteed. Safe delivery of chicks guaranteed. Eggs, \$3 per setting. Chicks, 20 cents each. Book your order early and secure sturdy chicks from winners. H. E. Hussey, Cedarhurst Farm, Princeton, Ill., R. 8. 2-4

QUALITY WHITE ORPINGTONS—Aldrich and S. B. Strains. Eggs, females and choice cockerels for sale. Laying or exhibition strains. Mating list. S. B. Brennan, 3140 Irving Ave., Berwyn, Ill. 2-4

CHICAGO COLISEUM WINNERS—Champion pen, Proviso, \$45. Winning cocks, \$8 up. 20 hens and 5 cocks, \$3 and \$5. Settings, \$3 and \$5. Alfred Engling, Elmhurst, Ill. 2-4

WHITE ORPINGTONS — The kind that pull down the blue ribbons. At three shows 5 firsts, 7 seconds, 4 thirds, in strong competition. Eggs from four grand pens. Mating list. A few big, husky cockerels for sale. Henry Brockschmidt, Freistatt, Mo. 2

EGG-BRED COCKERELS—Great, massive, broad-backed fellows; extra heavy bone and pure in color. Selected eggs from 200 and up egg record hens; \$5 per 15. Write for information. T. P. Dougherty, Route A 102, Tyrone, Penn. 2

WHITE ORPINGTON EGGS, \$2. Have one pen of all blue ribon winners. Free list. N. Roy Bowman, Albany, Wis. 2-4

ORPINGTONS—SEVERAL VARIETIES

SINGLE COMB WHITE and Buff Orpingtons; show and egg record; eggs, \$2 to \$4 for 15. G. F. Kramper, St. Liberty, Ill. 2

SINGLE COMB ORPINGTON Eggs—Blacks of real good quality. Whites of genuine Aldrich Strain. Prices, \$2, \$2.50 and \$3 for fifteen. No stock. Cauble's Poultry Farm, Phenix, Mo. 2-4

LONG'S ORPINGTONS — Buff, Black, White. None better. Winners everywhere. Specialty thirteen years. Eggs, \$10 per 100 and upward. Stock for sale; reasonable. E. M. Long, Box A, Osceola, Ind. 2-4

RHODE ISLAND REDS

ROSE COMB REDS—Bred to lay and win; won seven firsts at Sioux City and Mitchell shows. Write me your wants. Joseph Roming, Alcester, S. D., R. 4. 1-3

ROSE COMB REDS—Cockerels and Pullets, dark red, big bone, \$2 up; also show birds. Geo. J. Seifert, Mt. Vernon, Ind. 1-2

240-EGG STRAIN Rhode Island Reds—Both Combs, 21 years a breeder. Stock and eggs for sale. Stamp for reply. E. S. Piper, Bay View Farm, North Haven, Maine. 12-2

LARGE BONED SINGLE Comb Reds, good color. Satisfaction guaranteed. Lela Osterfoss, Hedrick, Iowa. 12-2

SINGLE COMB REDS—Fine cockerels and pullets for sale from \$2 and up. J. J. Cender, Foolsland, Ill., Route 39. 12-2

SINGLE COMB RHODE Island Reds—Have a lot of fine free range raised birds. Cockerels, \$5. Pullets and trios reasonable. Mrs. L. J. Stahl, Washington, Ill. 12-2

SINGLE COMB REDS—Bean Strain. Large, dark red cockerels and pullets of high quality, \$2 and up. Philip A. Seifert, Mt. Vernon, Indiana. 12-2

\$4 PER 100 EGGS—Welday's 220-egg record, real red S. C. Reds; none better; catalog. Welday, Seville, Ohio. 2-4

FANCY SINGLE COMB Red cockerels, \$10, \$5, \$3; catalog free. Clarence Steckel, White Hall, Ill. 2

SINGLE COMB REDS—Hatching eggs, \$2 for fifteen. John B. Sheets, Hagerstown, Md. 2

R. C. RHODE Island Red cockerels and eggs for sale. J. A. Sparling, Garden Grove, Iowa. 2

ROSE COMB RHODE Island Reds—Poor-man's 200-egg laying strain; farm raised, vigorous stock; eggs, \$2 per 15, \$8 per 100; chicks, \$20 per 100. Mrs. J. A. Brown, Route 6, Creston, Iowa. 2-4

REDS, BOTH COMBS, eggs, chicks, breeders; catalog free. Riverdale Poultry Farm, Riverdale, N. J. 2-4

BUY HATCHING EGGS from tried-out pens bred for exhibition, laying, breeding; Winnebago Reds led their variety in 1917 year's contest, Leavenworth, Kansas. Write us for prices. Winnebago Poultry Yards, Omro, Wis. 2-4

HIGH-CLASS SINGLE COMB Red eggs. Chas. Sherman, Freeport, Ill. 2-5

ROSE AND SINGLE COMB brilliant dark Reds that are fine layers. Geo. A. Kersten, Washburn Park, Minneapolis, Minn. 2

SINGLE COMB REDS, stock and eggs. Frank J. Martin, Mineral Point, Wis. 2-4

SINGLE COMB REDS—Eggs, \$1.25 per 15; \$3 per 50. Chicks, 15 cents each. Mrs. Fred Adler, Elgin, Minn., R. 2, Box 30. 2

S. C. REDS—Good stock and the best of winter layers. 15 eggs, \$2; 30, \$3.50; 50, \$5; 100, \$8. Ella Whitwood, Hudson, Ill. 2-5

ALL OUR SINGLE COMB Reds for sale, including winners. We won championship cock of show at one of the largest shows in Southern Illinois this year. Prefer to sell all to one party—2 cocks, 4 cockerels, 7 hens, 12 pullets. Practically all scored by Northup, of New York. First check for \$60 takes all; worth \$100, right here at breeding season. Will breed White Cornish exclusively. The Egyptian Farm, R. H. Dunston, Prop., Marion, Ill. 2

S. C. R. I. REDS—Good breeding males, Scranton Strain line-bred for last ten years, win wherever shown. Eggs in season. Setting, \$15. Satisfaction guaranteed. H. Vandepels, Zeeland, Mich. 2-4

LARGE, HEAVY BONED, fine red colored Single and Rose Red cockerels, bred from prize winners, \$3, \$5, \$7.50, \$10 each. Sent C. O. D. Frank J. Borchers, German Valley, Ill. 2

SINGLE COMB REDS—Hatching eggs from large uniformly dark red stock, bred for winter laying. Vibert-Owens cross. \$2 per 15. Satisfaction guaranteed. O. G. L. Lewis, Paoli, Penn. 2-4

S. C. REDS—First prize winners at Chicago and Milwaukee. Illustrated circular free. George Demlow, Elgin, Ill. 2-3

SINGLE COMB REDS—Scott strain; mating list now ready. E. J. Stoddard & Son, Route 8, Decatur, Ill. 2

RHODE ISLAND WHITES

RHODE ISLAND WHITES—Single Comb; correct shape. They are white! Stock for sale. Satisfaction guaranteed or money back. C. A. Wheeler, Cuba, N. Y. 1-2

HEADQUARTERS FOR ROSE Comb Rhode Island Whites. I am the oldest Breeder of this breed. Eggs and stock for sale from this wonderful laying strain. Catalog free. C. A. Foster, Colonial Poultry Yards, Akron, Ohio. 1-6

STOCK FOR SALE—From the great Rhode Island White farm; \$2 each; \$6 per trio; \$10 per pen; both combs. Henry Eichelmann, Waterloo, Ill. 1-3

PATRICK'S RHODE ISLAND Whites won the blues in competition with the best Whites in the world. Write for circular. J. T. Patrick, R. 4, N. Vernon, Ind. 1-3

"WHITE QUEEN" HEAVY layers—Rhode Island White, rose comb yearling hens, \$2, \$3; also cocks, pullets, cockerels, both combs, \$3, \$5, upwards. Fred Havig, R. 2A, Osage, Iowa. 1

ROSE COMB RHODE ISLAND White cockerels from prize winning stock, \$2, \$3, \$5. Col. Warren Russell, Winfield, Kas. 12-2

SINGLE COMB RHODE Island Whites—Eggs from pen of famous layers. Mid-winter records 23 to 28 eggs in 30 days. \$2 per 15. O. G. L. Lewis, Paoli, Penn. 2-4

EXCELSIOR RHODE ISLAND Whites—The oldest and best line bred strain in the world. Great winter layers and exhibition birds; literature free. Mrs. C. M. Vertrees, Box C, Cecilia, Ky. 2-4

ORDER EGGS AND CHICKS from hens that lay thru zero weather; Cook's Paramount strain R. I. Whites are bred that way; both combs. Mrs. Ernest Cook, Route 8, Cecilia, Ky. 2-4

BARRED PLYMOUTH ROCKS

BARRED ROCK COCKERELS for sale—Choice, selected. E. B. Thompson's strain direct. W. H. Settle, Gridley, Ill. 12-3

BARRED ROCKS—Palmer Strain. Choice breeding cockerels, \$2, \$3 each. Satisfaction guaranteed. W. H. Hasselbrock, St. Peter, Ill. 12-2

RINGLET BARRED ROCK cockerels from special exhibition matings. Large, vigorous farm range birds with great size and quality combined. Magnificent in color and barring. Mrs. J. M. Kemp, Kenney, Ill. 12-2

THOMPSON'S RINGLET BARRED ROCKS direct and Mammoth Light Brahmas eggs; \$3 per 15; Rock cockerels, \$5. Circular free. Satisfaction guaranteed. Lackawanna Poultry Farm, North Water Gap, Pa. 1-3

BEAUTIFUL BRED-TO-LAY Barred Rocks, Parks' strain exclusively (from best pens direct). Large boned, vigorous stock. Eggs, 15, \$2; 30, \$3.50; 50, \$5; 100, \$9. Cockerels, \$3, \$4, \$5 each. W. G. Meradith, Danvers, Ill. 1-3

NOW AGAIN AT THE IOWA State Show, Cedar Rapids, Iowa, Peterson's pullet-bred Barred Plymouth Rocks on six birds entered won 1-2-3 pullet, 5-6-7 cockerel. We raised every one from our own matings (not a bird or egg bought). Are you interested in pullet-bred Barred Plymouth Rocks bred to win, to lay and to pay their way, at reasonable prices, \$5 to \$10 each, cockerels or pullets? Do not write for prices if you mean business. Send your order today for what you want. Compare with the large breeders' \$25 to \$50 birds and if not satisfied return the birds and your money will be as cheerfully refunded as received, without quibbling, less express charges. We are responsible. Every year we have had to return remittances because we were sold out. Do not delay. Order today. John Peterson, Box 29, Randall, Iowa. 2

BARRED PLYMOUTH ROCKS—Hatching eggs from trap-nested stock for sale. Flynn Poultry Farm, Arlington Heights, Ill. 1-3

SPECIAL VALUE BARRED Rock cockerels, \$2, \$3. Super quality, \$5. Birds that will please. Your satisfaction guaranteed by approval-shipment plan. Clarence Steckel, White Hall, Ill. 1-3

BARRED ROCK EGGS for hatching. Bradley and Parks Strains. Harry Hough, Hartford, Mich. 2-4

PARK'S STRAIN BRED-TO-LAY Barred Rocks exclusively; direct from Park's best pedigreed pens; free range raised; large, vigorous, heavy-laying birds. Eggs, 15, \$2; 30, \$3.50; 50, \$5; 100, \$9; satisfaction guaranteed. M. W. Weaver, Dillsburg, Pa. 2-4

BARRED ROCKS EXCLUSIVELY—Heavy laying strain, Parks' direct; 15 eggs, \$2; 50 eggs, \$5, and 100 eggs, \$9. Mrs. E. Glabe, Chatsworth, Ill. 2-4

"RINGLET" BARRED ROCKS—Cocks and cockerels, both matings, big boned, well marked; prices reasonable. W. A. Ehrler, Lena, Ill. 2

BARRED ROCKS, 200-egg strain, hatching eggs, \$1.50 for fifteen; \$7 per 100; cockerels, \$5 each. Winterlaid Egg Farm, Dahlgren, Ill. 2-4

WRIGHT'S LAYING STRAIN Barred Rocks, trap-nested, vigorous, carefully selected; eggs for hatching, \$2 for 15. Wright Poultry Yard, Peebles, Ohio. 2

\$4 PER 100 EGGS—Welday's Laymore Barred Rocks; catalog. Welday, Seville, Ohio. 2-4

FAIRFIELD'S BIRDS WON Storrs International egg-laying contest with 2,119 eggs; won state cup, 1917 and 1918. 1,000 trap-nested breeders mated to pedigreed males line bred for eggs and beauty. Hatching eggs and chicks; illustrated circular free. Fairfields Farms, Short Falls, N. H. 2-4

RINGLET BARRED ROCK Chicks—14 cents. Paul Bickel, 32 Tompkins St., Columbus, Ohio. 2-4

EGGS FROM E. B. THOMPSON'S Imperial Barred Rock strain, 15 for \$2; 100 for \$10; satisfaction guaranteed; good cockerels reasonable. W. H. Settle, Gridley, Ill. 2-5

BRED-TO-LAY Barred Rocks, Parks' strain direct; eggs, \$1 per 15; \$6 per hundred; Parks' strain cockerels, \$3 and \$5. J. C. Scribner, Dahlgren, Ill. 2-3

E. B. THOMPSON'S "RINGLETS" direct; extra choice cockerels, females, eggs; big, vigorous stock, bred from winners; best New York winning blood from proven breeders. Have spared neither pains nor money. William Huckle, Waverly, N. Y. 2-4

PARK'S BARRED ROCKS—Prize winning 210-egg bred. If you want delicious early friers, persistent layers and handsome breeders and be satisfied as an army of old customers are, order my hatchable eggs, 15, \$2; 100, \$7; livable chicks, 20 cents; vigorous cockerels, \$3. Write Elizabeth Woodmansee, Highland, Ohio, today for folder and buy superior stock. 2

HOLTERMAN'S "ARISTOCRAT" Barred Rocks direct. Pullet mating; eggs for hatching, \$3 per 15, or 30 for \$5. Mrs. Ella D. Ross, Newton, Ill. 2-3

BOWERS' PREMIUM BARRED ROCKS—Winners at Chicago Coliseum show, 1914-1915-1917; Milwaukee, 1916; Indianapolis, 1917. Stock sold on approval; eggs for hatching; cockerel mating only. Fred Bowers, Woodstock, Ill. 2

BARRED ROCK PULLETS for sale that will make splendid layers; incubator eggs. L. F. Thompson, Hope, Ind. 2

QUALITY BARRED ROCK eggs, Thompson strain; 15 eggs, \$2; forty-five, \$5; fertility guaranteed. Hazel Eaton, Ottawa, Ill., Route 31. 2

PARK'S BRED-TO-LAY Barred Rocks—Get eggs from winter layers; fertility guaranteed; 15, \$2; 30, \$3.50. A. Hoffmeyer, Route G, Box 28, Indianapolis, Ind. 2-4

FOR SALE—RINGLETS Barred Rocks Stock and eggs. Satisfaction guaranteed. Henry Hilberg, East Moline, Ill. 2

WYLLMACROFT BARRED Rocks are money makers. Reared on free range for size and heavy egg production. Do you want producers? Book orders for eggs now. Mrs. Will Bug, Assumption, Ill. 2-4

RINGLET BARRED ROCK eggs cheap. Dixie Poultry Yards, Beaumont, Texas. 2

"RINGLET" COCK, sired by 1st cockerel. Madison Square, 1916; Thompson direct. Bargain. M. F. Hanscom, N. Berwick, Me. 2

EGGS FOR HATCHING—Parks' bred-to-lay strain. Fine stock. 15, \$2; 30, \$3.50; 50, \$5.50; 100, \$10. A. Amidon, 6041 South Winchester Ave., Chicago, Ill. 2-4

BUFF PLYMOUTH ROCKS

BUFF ROCKS—LEADING winners at Chicago and St. Paul, 1917. 100 splendid cockerels for sale, all shipped on approval. Breeding or exhibition quality. Frank W. Kramer, Fort Atkinson, Wisconsin. 12-2

HEISER'S ALL-GOLD strain Buff Rocks of quality, at \$2, \$3, \$5 and \$10 each. J. A. Heiser, Fisher, Ill. 1-3

HERTZ'S BUFF ROCKS win annually at Madison Square Garden, Syracuse, Palace, New York, and Hagerstown, Md. Stock and eggs. Catalog free. Joseph H. Hertz, Box A, Hanover, Pa. 1-3

PURE-BRED BUFF ROCK cockerels, \$3 and \$5 each; shipped on approval. Satisfaction guaranteed. Clarence Steckel, White Hall, Ill. 12-2

THOROBRED BUFF Plymouth Rock cockerels, at \$2, \$3.50 and \$5 each, and eggs, \$1.50 and \$2 per 15. R. N. Boose, Winston-Salem, N. C. R. 2. 1-3

BUFF ROCKS—BEST pens of selected layers; fifteen eggs for \$1. H. H. Liddle, Wever, Ia. 2-6

BUFF ROCK COCKERELS, \$2 to \$5 each; well bred and carefully selected. Mrs. Lucy Eminger, Gibson City, Ill. 2-3

BUFF ROCK BREEDERS—Improve your flock with one of our bred-to-lay cockerels; winners at Boston, Madison Square; cocks, hens, pullets. Field, Somers, Conn. 2-4

BUFF ROCKS—A few fine cockerels left at \$2. Eggs from select pens, \$1.50 and \$2 for 15. Mrs. H. T. Price, Route 6, Elkhorn, Wisconsin. 2-4

COLUMBIAN PLYMOUTH ROCKS

IF YOU WANT proven 200-egg strain Columbian Rocks that are fit to show, write J. M. Jones, Hornerstown, N. J. 2-4

PARTRIDGE PLYMOUTH ROCKS

ILLINOIS STATE SHOW winners. Catalog free. Stock, \$3 to \$5; eggs, \$2.50 per 15; prepaid. John Hacker, Dept. A, Marissa, Ill. 1-3

PARTRIDGE ROCK COCKERELS and pullets for sale. Satisfaction guaranteed. Ray Finders, Ferguson, Iowa. 1-3

PARTRIDGE ROCKS—Priced reasonable. State Fair winners five years. Frank Neudecker, Sleepy Eye, Minn. 1-2

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 252. 5-15-tf

EGGS FROM HIGH-CLASS Partridge Rocks. Paul Wurtzel, Freeport, Ill. 2-5

"RIVERDALE" PARTRIDGE Rocks — Noftzger Strain. Stock for sale. Eggs in season. R. F. Schuler, Roann, Ind. 2

PARTRIDGE ROCKS for sale — Noftzger Strain. Good cockerels and eggs. Write for mating list and prices. Geo. Miller, Napanee, Ind. 2-4

PARTRIDGE PLYMOUTH ROCKS—"Winners in five states." Eggs for hatching, \$2, \$3, \$5 per 15; baby chicks, 25c. Mammoth Poultry Yards, Box A-31, Tahlequah, Okla. 2-4

SILVER PENCILED ROCKS

SILVER PENCILED ROCKS—Winners at Chicago, New York, Boston, St. Louis. Breeding and show stock for sale. Catalog free. Peter Jungels, Jr., Lemont, Ill. 12-2

WHITE PLYMOUTH ROCKS

WHITE ROCKS—Pedigreed, trapnested hens; records, 200, 205, 208, 210, 212, 214, 216, 225, 240, 252 eggs; cockerel out of 254-egg hen. Eggs, chix. Circular. This blood will help your flock. Dr. Prudhomme, Thurnont, Md. 1-3

WHITE ROCKS—Pure White from trapnested stock; 222-egg record. Henry Leit-schuh, Sleepy Eye, Minn. 1-3

WHITE ROCKS—Fishes strain direct; choice stock breeders and utility; farm range; booking orders, eggs and chicks; price list free. Whiteview Poultry Yards, Mishawaka, Ind. 1-3

WHITE ROCKS FOR SALE—Cockerels \$2; pullets, \$1.50. Mrs. L. L. Hunter, Blakesburg, Iowa. 1-2

WHITE ROCK COCKERELS, direct from Poorman's trapnested, 200-egg strain, \$3 to \$5; eggs, \$2 per 15; chicks, 25 cents each. Mrs. Earl Frost, Route 2, Palatine, Ill. 2-4

WHITE ROCKS—A few cocks left; eggs for hatching. Geo. F. Conrad, Amanda, Ohio. 2-4

LANDIS WHITE ROCKS, winners at Indianapolis, Chicago, for past twenty years; extra fine show and breeding birds at fair prices; mention what you want from this ad; none better; must please; four select pens; eggs, \$5 per 15. John Landis, Edinburg, Ind. 2-7

WHITE ROCKS—U. R. Fishel strain direct; eggs of great layers, \$1.50, 15; \$3, 30; \$4, 50; \$8, 100; \$16, 200. Orders filled promptly. Henry Heitkamp, New Bremen, Ohio. 2-4

FANCY WHITE ROCK cockerels, \$10, \$5, \$3; catalog free. Clarence Steckel, White Hall, Ill. 2

LARGE COCKERELS, \$5; settings, \$3, delivered; circular. Edwin Barnett, Logansport, Ind. 2

PULLETS AND COCKERELS—A beauty flock of grand breeding birds from trapnested, pedigreed, high record egg layers. Choice selected birds, \$5; trios, pens. Write now for information. T. P. Dougherty, Route 202, Tyrone, Penn. 2

WHITE ROCKS—Owen Farms Strain. Free range. Eggs, \$2 per fifteen. A. E. Le Gendre, Meriden, Conn. 2

EGGS! EGGS! EGGS!—Strongly fertile, big, brown and fresh from the nest. Pedigreed 200 and up egg record White Plymouth Rocks. Guaranteed to arrive safely, hatch strong, sturdy chicks. Setting, \$5; also by hundred. Write today for full information; free. T. P. Dougherty, Route Star 202, Tyrone, Penn. 2

WHITE ROCKS THAT LAY at the contests as well as at home. "Watch the Contest Reports." For the best in White Rocks write Dr. Louis A. Heely, St. Libory, Ill. 1-3

WHITE ROCKS—READY-TO-LAY pullets. Early hatched breeding cockerels. Line of winners. Free circular. Hoch & Fredrick, Box O, Chambersburg, Pa. 12-2

WHITE PLYMOUTH ROCKS—Heaviest layers from stock with 200 to 300-egg records. Cocks, cockerels, hens, pullets, \$7.50 each. Eggs, \$3.50 and \$5 per setting. M. A. Stockley, Winnetka, Illinois. 12-2

WHITE ROCKS—Trapnested 200-egg strain. Stock for sale at reasonable prices Hillview Poultry Yards, Batesville, Ind. 12-2

SPANISH

WHITE FACED BLACK SPANISH cockerels for sale; winners Chicago Coliseum. Pyrone Poultry Farm, Fenton, Mich. 2-4

FOR SALE—WHITE FACED Black Spanish eggs, 15 for \$1.50; 30 for \$2.75; 100 for \$6. Good stock. Lonella E. Jaqua, Port and, Indiana. 2-4

WHITE FACED BLACK Spanish—Stock and eggs. Winners Indiana shows—Newcastle, 1913; Marion, 1914; Goshen, 1915; Logansport, Marion, 1916; Indiana State Fair, 1916, 1917; Greater Chicago Show, 1918. J. R. Galloway, Elwood, Ind. 2-5

SPECKLED SUSSEX

SPECKLED SUSSEX—Young stock for sale at \$3 to \$5 apiece. Will Fogg, Jonesville, Mich. 12-2

FOR SALE—IMPORTED Speckled Sussex. Also stock and eggs. Henry Hilberg, East Moline, Ill. 2

SPECKLED SUSSEX—Stock and eggs. Sparling Sisters, Garden Grove, Iowa. 2-4

SPECKLED SUSSEX—Winners at Greater Chicago Show, 1918. Choice birds from winning strain. Hatching eggs from good matings. Prices reasonable. Write me your wants before buying elsewhere. C. A. Campbell, 1913 W. 59th Street, Chicago, Ill. 2-4

SILKIES

SILKIES—14 FEMALES, 9 males, \$40. Lucy Bailey, Albion, Ill. 2-4

SUMATRAS

BLACK SUMATRAS for sale — K. A. Wernle, 5029 Monticello Ave., Chicago. 2-3

BUFF WYANDOTTES

GOLDEN MODEL BUFF Wyandottes—Special prices on old and young stock. B. M. Owens, Shiloh, Ohio. 12-2

BUFF WYANDOTTES—Sanborn Strain direct, from exhibition stock, great egg producers; cockerels reasonable. Ben Threlkeld, Ewing, Ill. 11-2

EGG-BRED BUFF WYANDOTTES—Winners last National Club show. Breeders, eggs, chicks, priced right. Lea Munger, De Kalb, Ill. 2-3

BUFF WYANDOTTES—267 egg record; proof; write for circular and contest record. Layers; winners. J. J. Dansro, N. Clarendon, Vt. 2-4

BUFF WYANDOTTES—Have purchased the entire stock of F. L. Waterman Buff Wyandottes and will sell a few choice cockerels and cocks at reasonable prices. Also booking orders for hatching eggs from prize-winning stock. Write for prices to Alfred W. Hobein, Barrington, Ill. 2

COLUMBIAN WYANDOTTES

COLUMBIAN WYANDOTTES—Choice strain, prize winners, stock and eggs; prices reasonable; quality guaranteed. C. A. Mook, LeMars, Iowa. 1-3

COLUMBIAN WYANDOTTES—Wilburtha strain. Satisfaction guaranteed. Fordham Poultry Yards, Sayre, Pa. 1-2

A FEW GOOD Columbian Wyandottes, the kind that lay and pay. S. M. Watkins, Walnut, Ill. 12-2

COLUMBIAN WYANDOTTES—Superior Strain. Winners again at Boston this week. Some choice breeding cockerels. Place your order at once for hatching eggs. Prices reasonable. Gilbert Poultry Farm, Whittier Road, Haverhill, Mass. 2

MICHIGAN CHAMPION COLUMBIAN Wyandottes, oldest established and most widely known strain. Eggs from six exhibition matings, selected for type, color, markings, size and laying qualities; \$3 and \$5 per fifteen; fertility and satisfaction guaranteed. Arthur Schaaek, 605 Rohns Ave., Detroit, Mich. 2

COLUMBIAN WYANDOTTES—Bred to lay but prize winners; exhibition mating eggs, \$3 for 15; yard eggs, no inbreeding, no culls, \$1 for 15. Ira Parrack, Santa Anna, Texas. 2-4

TENTH ANNIVERSARY SALE—Breeding cockerels a specialty; vigorous, trapnested stock; winners always, Boston, New York. (No eggs or chickens.) Write needs. Address Ralph Woodward, Box J, Grafton, Mass. 2-4

COLUMBIAN WYANDOTTES that have always been winners at Chicago, Minneapolis and Minnesota State Fair. Geo. A. Kersten, Washburn Park, Minneapolis, Minn. 2

COLUMBIAN WYANDOTTES—Hatching eggs and baby chicks, from range raised, bred-to-lay stock of exhibition quality; prices reasonable, quality considered. Chris. Hendricks, Glasco, N. Y. 2-5

GOLDEN WYANDOTTES

GOLDEN WYANDOTTES—Fancy and utility, from prize winning stock, priced reasonably. Satisfaction guaranteed. Chas. Dieckmann, R. 2, Batesville, Ind. 12-2

GOLDEN WYANDOTTES, bred for exhibition and utility; stock and eggs. R. Dick, Brunswick, Me. 2-4

PARTRIDGE WYANDOTTES

PARTRIDGE WYANDOTTES—Premier Strain. For sale, choice cockerels, \$5; pullets, \$3; trios, \$10; pens, \$15. A. Louis Keim, Watcrio, Illinois, Box 93. 12-2

PARTRIDGE WYANDOTTES—Eggs from Premiers, \$1.50 per 15; 50, \$3.50. Fertility guaranteed. E. H. Casey, Ewing, Ill. 2-4

PARTRIDGE WYANDOTTES—Cockerels sired by 2nd cock and color special cockerel at Club Show, Chicago. Few grand cock birds. W. W. Day, Janesville, Wis. 2

SILVER LACED WYANDOTTES

SILVER WYANDOTTES—Famous Tarbox and Steinmesch strains. Prize winners. Cockerels reasonable. Satisfaction guaranteed. James Leggett, Hornsby, Ill. 12-2

MAC'S SILVER WYANDOTTES—Breeding cockerels. Hatching eggs. D. Roszel McConnell, Randolph Ave., Hagerstown, Md. 12-3

FOR SILVER LACED Wyandottes, the kind that win and lay, address Helfrich Brothers, Hammond, Platt Co., Ill. 12-2

SILVER WYANDOTTES—Hundreds of choice breeders and exhibition birds; also eggs from trapnested hens. Circular free. Chas. Schroeder, St. Peter, Ill. 2

S. L. WYANDOTTE hens and cockerels scored and unscored; Tarbox and Steinmesch strain; eggs in season. Mrs. C. W. Whitham, Fairfield, Iowa. 1-4

SILVER LACED WYANDOTTES—Exhibition and breeding stock for sale; prices reasonable. B. A. Romisch, Creston, O. 2-3

SILVER WYANDOTTES—Prize winners; eggs for sale; circular. H. O. Giese, Princeton, Wis. 2-4

SPANGLED WYANDOTTES

SPANGLED WYANDOTTES—The new, ideal breed; stock and eggs. L. Cook, Originator, Oakville, Iowa. 2-4

WHITE WYANDOTTES

REGAL WHITE WYANDOTTE eggs from specially mated pens, \$3 per 15; orders booked before March 1 will be \$2.50 per setting. These matings are all Regals and are high producers of eggs, being selected by the Hogan System and are mated with superb cocks. A few settings of these eggs will start you right for next year. Other matings, \$1.50 per 15 or \$9 per 100. Eggs replaced for half price. Ivor Jones, Bourbon, Ill. 2

WANT LAYERS? Baby chicks from trapped White Wyandottes, 15c each; March delivery, 18c. Vigorous breeding hens. Winners at St. Louis Coliseum. Eggs, \$2.00 per 15. E. W. Schaperkotter, Valley Park, Mo. 1-4

STATE SHOW—Fair Champions, blue and red ribbon winners 1917; eggs, \$5 setting. Benj. L. Knight, Newberry, S. C. 1-3

WHITE WYANDOTTES—Rudy's Perfection Strain; choice cockerels reasonable. Write S. Martin Nelson, Momenca, Ill. 1-3

WHITE WYANDOTTES FROM Wisconsin State Fair Winners; \$1.50 and up. Laurel Killips, R. 6, Waukesha, Wis. 1-3

"REGAL" WHITE WYANDOTTES—\$3 up; eggs, \$1.25 up. Write for circular and winnings. Satisfaction guaranteed. Hugh Barnes, Trenton, Mo. 1-4

WHITE WYANDOTTES exclusively—Stock and hatching eggs for sale. Orchard Poultry Yard, St. Peter, Ill. 12-16-1yr

COCKERELS FROM guaranteed trapped stock with records of 200. C. W. Zelic, Appleton, Wis. 1-2

COCKERELS—White Wyandottes, from high record dams. Priced low. Belle Wright, Manteno, Ill. 12-2

WHITE WYANDOTTES—Eggs from stock with breeding equal to any in America. Please write for prices and description of matings. I guarantee satisfaction. J. F. Garrison, Mt. Vernon, Ill. 1

WHITE WYANDOTTE COCKERELS and breeding pens; from high scoring, prize winning stock; range grown; good layers; eggs and baby chicks in season. W. A. Ziegler, Mt. Victory, Ohio. 1-3

WHITE WYANDOTTE COCKERELS and pullets. Show qualities and eggs. Trapped ten years. Won first on show, also on eggs. Hatching eggs and day-old chicks. Miss Marion I. Moore, Hamburg, N. Y. 12-2

SOME FINE HENS and pullets for sale from a heavy laying trapped strain of Regal White Wyandottes. J. A. Lowden, Winnebago, Neb. 1-2

BRED-TO-LAY STRAIN White Wyandottes, Rhode Island Reds and Barred Rocks. Stock and eggs in season. N. E. Robart, Caledonia, Mich. 12-2

WHITE WYANDOTTE COCKERELS, \$3 to \$5 each. Satisfaction guaranteed. A. J. Shannon, Appleton, Wis. 12-2

CHOICE BIRDS—Owen Farms and Barron stock. Arthur H. Furber, North Conway, N. H. 12-2

WHITE WYANDOTTES—Hatching eggs; order now; satisfaction guaranteed; mating list. Edw. C. Wiesenborn, Grand Chain, Ill. 2-4

ST. CLAIR'S WHITE WYANDOTTES—Year-round layers; bred for years for egg production, vitality and beauty; hatching eggs, \$2.50 for 15; \$10 for 100; satisfaction guaranteed. St. Clair's Wyandotte Farm, Downing, Mo. 2-4

\$4.25 PER 100 EGGS—Welday's Laymore White Wyandottes; quality unequalled; catalog. Welday, Seville, Ohio. 2-4

WHITE WYANDOTTES—Hatching eggs, \$2 for fifteen. John B. Sheets, Hagers-town, Md. 2

MARTIN'S WHITE WYANDOTTES—Eggs, chicks, breeders; catalog free. Riverdale Poultry Farm, Riverdale, N. J. 2-4

WHITE WYANDOTTES—I have one pen, 6 pullets and cock bird, for sale cheap; prize-winning strain. C. Campbell, 1913 W. 59th Street, Chicago, Ill. 2-3

WHITE WYANDOTTES—Stock and eggs for sale; write for price list. Earnest Massey, Mystic, Iowa. 2-18-1yr

EXHIBITION REGALS—EACH bird is up to or above standard in weight, pure white, orange yellow legs, with broad and full breast, and they come from prize winning parents, too. Also have a grand pen of breeders with records from 203 to 223, headed by Federal Cecile, whose mother's official record was 224 and grandmother's official record was 265 eggs. Will spare a few eggs from either pen, 50c each; from our vigorous utility matings, \$1.50 per setting. Federal Poultry and Stock Farm, Federalburg, Md. 2

FOR WHITE WYANDOTTE MALES write Clyde F. Cusick, Allendale, Ill. 2

OWN-LAND FARMS' "THRIFTY" White Wyandottes (Regal-Dorcas); winners, Rochester, etc., since 1911; proven prolific layers; cockerels, \$3.50, \$5, \$10; hundreds satisfied customers; circulars. South Hammond, N. Y. 2

WHITE WYANDOTTES—Martin, extra fine, mature stock; pure white, heavy layers; winners St. Louis, Indianapolis, Marion; best pens, 15 eggs, \$3, 50, \$7; fine range flock, 15 eggs, \$1.25; 50, \$3.50; 100, \$6.50. Cockerels, \$2 to \$10. Herbert Smith, Route 8, Bluffton, Ind. 2

WHITE WYANDOTTE COCKERELS, \$3 and \$5 each, from prize winning and trapped stock. Ye Quill and Apple Yards, Sanders Bros., Ottawa, Ill. 2-3

WHITE WYANDOTTES—Eggs from big heavy layers; satisfaction guaranteed. Fred Stoler, Alexandria, Ind. 2-4

WILSON'S WHITE WYANDOTTES—Regal Dorcas strain; they win and lay; 15 choice cockerels, \$5, \$8 and \$10 each; eggs, \$3 for 15; write for list of winnings and mating list. James C. Wilson, Peoli, Ohio. 2-4

WELLS' WHITE WYANDOTTES—Line-bred. Prize winners. Splendid layers. Eggs from choice matings of exhibition quality, \$3 per 15; \$5 per 30; \$12 per 100. M. G. Wells, Sellersburg, Ind. 2-4

TOM BARRON EGG-BRED White Wyandottes. Eggs, \$2 for 15. Chicks, 20c each. J. A. Shott, New Wilmington, Pa. 2-4

WYANDOTTES—SEVERAL VARIETIES

PARTRIDGE WYANDOTTES—Premier Strain and Silver Penciled Wyandottes sold on approval. James Schrub, Urbana, Ohio. 12-2

LAKEVIEW WYANDOTTE YARDS—A splendid lot of healthy, vigorous birds bred from prize winners. We breed all varieties of Wyandottes. Cockerels now ready for sale delivery. We also have Black-Tailed White Japanese Bantams; limited stock for sale. Eggs in season; prices on application. R. C. Sanders, Prop., Pierre, S. D. 2-4

SEVERAL BREEDS

WYANDOTTES—ENGLISH; absolutely the highest official pedigree stock in America. Also Leghorns, Buff Rocks, Reds, Wyandottes, 282 eggs official; Lady Storr's, 287 eggs; Rocks, 280; Reds, 273. Morris Farm, Bridgeport, Conn. 2-4

PARTRIDGE PLYMOUTH ROCKS and Silver Penciled Wyandottes; fine stock; shipped on approval; prices reasonable. Wm. Schetter, Urbana, Ohio. 1-3

TOULOUSE GESE—Rouen Ducks, Buff and Barred Rocks of the highest quality; circular; stock and eggs. Edw. Davidson, Carey, Ohio. 1-3

COCKERELS, GOOD ONES; \$2.50 each; Barred and White Rocks, White Wyandottes, White Orpingtons, Rose and Single Comb Rhode Island Reds. G. A. Mitchell, Freeport, Ill. 1-2

ALL VARIETIES PURE BRED chickens, ducks, geese, guineas, turkeys, Belgian hares, ferrets, rabbits, pets. Price list free. Philip Condon, Box 1010, West Chester, Ohio. 10-2

PARTRIDGE AND WHITE Wyandottes, Embden geese, Bronze turkeys. W. H. Milward, Madison, Wis. 12-2

BARRON AND FERRIS S. C. White Leghorn cockerels, and E. B. Thompson's Ringlet Barred Rocks. Cockerels \$2 and \$3 each. Fair View Poultry Farm, Chas. Westlake, Sycamore, Ill. 12-2

90 VARIETIES HAIR and feather birds; hatching eggs a specialty; complete list free. Bergey's Pet Farm, Telford, Pa. 2

EGGS—Two Pens prize-winning R. C. R. I. Reds. Stock from champion Coliseum Show, 1916. R. C. R. I. Whites, pullets laying at 4½ months. All eggs, \$2 and \$3 for 15. John H. Wolgast, Danforth, Ill. 2-4

FOR SALE—LARGE Dark Brahmas and Buff Cochins. Exceptionally fine quality, from show winners. Prices very reasonable. Inquire H. C. Weinrich, Cambridge, Ill. 2-3

S. C. W. ORPINGTONS and S. C. Ancona eggs and baby chicks from choice stock; satisfaction guaranteed. G. V. Dieter, Knapp, Wis. 2-4

ENGLISH WYANDOTTES and Leghorns, Sheppard Anconas; write for list. David Walmer, Rockstown, Pa. 2-4

BUFF ROCKS, CRESCENT strain; White Rocks, Fishel strain, and White Orpington, Aldrich strain; eggs; Buff baby chicks. Rachel Sheppard, Route 1, Pearl, Ill. 2-5

STOCK, EGGS AND BABY chicks, Buff and Silver Penciled Rocks; Black, White and Part Wyandottes; Blue Orpingtons, White Houdans, Rose Comb White Minorcas, Buff Laced Polish, White Guineas, Silver Seabright and Partridge Cochins Bantams. James G. Ballie, Platteville, Wis. 2-4

WHITE WYANDOTTES, S. C. Black Minorcas, S. C. Buff Orpingtons, White Guineas; best stock; eggs cheap. Elmer Patterson, Dix, Ill. 2-5

S. C. BLACK MINORCA and Campine eggs from thoroughbred stock, \$1.50 per setting; \$10 per hundred. Wm. S. Dupre, Antioch, Illinois. 2-4

FOR SALE—Black Javas, also High Scoring Blue Andalusian cockerels; silver cup winners. Herbert Hodgson, Albion, Ill. 2

NICE TOULOUSE GESE, \$6 per pair. Stock and eggs. 40 breeds land and water fowls. Won 470 prizes at Indiana and Illinois State Fairs, 1917. Catalog, 3c. Chas. Smiley, R. 14, Judson, Ind. 2-4

FOR SALE—35 BREEDS poultry, turkeys, ducks and geese. Hatching eggs. Incubators and brooders in 3 sizes. Price list free. Poland-China Hog and Poultry Farm, Mankato, Minn. 2-4

AMERICAN DOMINIQUES—Black Javas, Dark Cornish, Light and Buff Brahmas. Circulars. Dr. Harwood, Malone, N. Y. 2-4

CANARIES

GOOD INCOME RAISING Canaries! New industry, at home, spare time; very little capital necessary; we show you how; choice breeders furnished. Monarch Specialty Co., Evanston, Ill. 2-4

DUCKS

WHITE RUNNER DRAKES, \$2 each. Arnold Nelson, Harmony, Minn. 1-2

PEKIN DUCKS—Selected hatching eggs from our celebrated strain Mammoth White Pekin ducks. Absolutely the best that can be produced. Nineteen years in the business. Satisfied customers everywhere. Prices reasonable. Crystal Spring Poultry Co., Oil City, Penn. 2-4

DUCKS—ALL VARIETIES cheap if taken soon. Bare Poultry Co., Box 909, Hampton, Iowa. 2-4

NEW 300-EGG SEVILIAN Ducks; world beaters; catalog. Welday (Originator), Seville, Ohio. 2-4

OUR WHITE EGG Buff Orpington Ducks outlay Runners; catalog describing our 250-egg female; special matings guaranteed to produce winners at any show; complete history free; 10 years the world's leading breeder. Welday, Seville, Ohio. 2-4

GIANT ROUENS, CAYUGAS—Chicago, Indianapolis winners; eggs, any quantity; reasonable. Willow Creek Duck Farm, Warsaw, Ind. 2

GEESE

ALL VARIETIES of geese cheap if taken soon. Bare Poultry Co., Box 909, Hampton, Iowa. 2-4

LARGE EMBDEN AND Toulouse geese, Pekin drakes, White guinea. Oak Grove Farm, R. 34, Box A, Peoria, Ill. 12-2

GEESE—MAMMOTH TOULOUSE, African, White China, Embden, Buffs. Ducks—Imperial Pekins, Rouens, Indian Runners, Muscovys, Buffs, Turkeys—Mammoth Bronze, White Holland, Bourbon Reds. Price reasonable. A. A. Ziemer, Austin, Minn. 2-4

WHITE EMBDEN GESE and eggs. J. A. Sparling, Garden Grove, Ia. 2

TWO-YEAR-OLD Embden ganders, \$5. Grace Garnett, Marion, Mo. 2

DUCKS AND GEESE

TOULOUSE GEESE, Pekin and Penciled Runner ducks. A. Moritz, Rahway, N. J. 12-2

TURKEYS

AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our ad. on page 252. 2-ft

LARGE WHITE HOLLAND Toms, \$8.00 each. Winnie White, Watson, Ill. 1-3

MAMMOTH BRONZE unrelated trios, bred from New York and Chicago prize winners; toms, \$8 to \$12; hens, \$7 to \$12; free circular. Eli Rosenberger, Tiffin, Ohio, R. 9, Box 26. 1-3

GIANT BRONZE TURKEYS from world's best strain. If you want the big kind, write E. H. Hayward, Fairbank, Ia. 12-2

BRONZE TURKEYS—Furnish unrelated trios. Mrs. Hail Williams, Nelson, Mo. 12-2

GIANT STRAIN BRONZE turkeys—World's Fair and Missouri State Show winners. Won 90 percent of all first awards and the state special over all varieties for best display, 1916. Catalog for 3c stamp. A. D. Walker, Memphis, Mo., R. 1. 12-2

CHAMPION BRONZE TURKEYS—The quality kind. Winners in America's largest shows. Have pleased customers in thirty states. Sired by sons of my 52-lb. champion tom. \$7.50 to \$25 each. Ike Hudnalls, Milan, Mo. 12-2

BOURBON RED TURKEYS—Hens, \$5; toms, \$7. Thos. G. Callaghan, Fenton, Mich. 2

GIANT BRONZE TURKEYS from San Francisco World's Fair stock. Tom, \$10 to \$15; hens, \$8; from record stock. Ollie Shelton, Polo, Mo. 2-4

BAUMAN'S BEAUTIFUL Bourbons—Toms from blue ribbon and high record hens, sired by blue ribbon winners, Garden, Palace and other leading shows, \$12.50, \$15. Written pedigree. Egg orders booked. Mrs. M. F. Bauman, Clayton, Ill. 2-4

EGGS FROM MY prize winning White Holland turkeys, 36-lb. tom, score 98, 18-lb. hens, \$4 per setting 10 eggs. Satisfaction guaranteed. Mrs. E. J. Long, Assumption, Ill. 2-4

MAMMOTH BRONZE TURKEYS—Young toms, \$10 to \$25. Young hens, \$7 to \$12. Mrs. E. E. Mark, Stronghurst, Ill. 2-3

WHITE HOLLAND TOMS, \$8 and \$10. Grace Garnett, Marion, Mo. 2

BOURBON RED TURKEYS—Two fine hens, coming two years; the two for \$25. E. Adams, Buffalo, W. Va. 2

LARGE GIANT BRONZE Turkey Toms, big bone, good shape and well marked in all sections; parent stock winners at the leading shows. Prices reasonable. A. L. Ackerman, Rich Hill, Mo. 2

WHITE HOLLAND TURKEY hens, \$7 each; one Bronze Turkey Tom, \$10. Mrs. Wm. Leinweber, San Jose, Ill. 2

PURE-BRED WHITE Holland Toms, \$10; hens, \$6; large, vigorous birds. Also peacock feathers. Grace E. Moore, Iroquois, S. D. 2

STANDARD BRED MAMMOTH Bronze Turkeys—Year-old toms, \$20; young toms, \$15; shipped on approval. J. H. Steele, Manassas, Va. 2

DR. RICHARDSON'S MAMMOTH Bronze turkeys; prize winners; large size; finely marked; also single comb White Leghorns; choice stock. Dr. H. A. Richardson, White Mills, Ky. 2

BRONZE TURKEYS, BRED from Chicago winners; cockerels and pullets; heavily bronzed on back. W. W. Day, Janesville, Wis. 2

BRONZE TURKEYS—Sired by first prize Madison Square Garden tom, the sire of quality; pullets bronzed like toms; breeding and exhibition males and females. S. M. Yoder, Elk Lick, Pa. 2-3

AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 252. 2-15-ft

PIGEONS

WANTED—5,000 COMMON or Homer Pigeons. Pay at least 25c pair. Market poultry wanted. D. Gilbert, 1128 Falmer St., Philadelphia, Pa. 11

I OFFER GUARANTEED MATED Homers in any quantity at \$1.00 per pair. Beautiful White Homers, \$1.50 pair. Squab companies challenged to produce better stock at twice this price. Get my prices on Runts, Carneaux Matrese hens and save dollars. Squab Manual, 25c. Charles A. Gilbert, 346 No. American St., Philadelphia, Pa. 11

BLUE HOMERS—6 pairs, \$5; White, \$7; Red Carneaux, \$10; guaranteed mated. Woodford Poultry Farm, Station M, Cincinnati, Ohio. 2-4

PHEASANTS

REEVES AND AMHERST, healthy May-hatched birds; will breed this spring; wholesale prices. Harold Simmons, Howard Lake, Minn. 2-4

RABBITS AND HARES

RAISE BELGIAN HARES FOR ME—I furnish magnificent, thoroughbred Young Rufus Red stock at \$3 each, and buy all you raise at 30c per pound on foot. Send 10c for Breeders' Instruction Bulletin. Frank G. Cross, 6433 Ridge, St. Louis, Mo. 11-17-ft

BELGIAN HARES—Get our quotations. Hare book and catalog, five stamps. Failing Poultry Farm, La Pargeville, N. Y. 1-3

PEDIGREED RUFUS RED Belgians and Mammoth Flemish Giants. Send 10c for booklet. Canada's Rabbitry, 258 York, Denver, Colo. 1-3

RUFUS RED BELGIANS and Flemish Giants. Booklet on hares 10c. Canada's Rabbitry, 258 York, Denver, Colo. 12-2

EARN \$15 WEEKLY raising Belgian hares. Particulars 10c. U. Anderson, 2421 Ogden, Denver, Colo. 12-2

ATTENTION YOU RABBIT Breeders!—Subscribe today for only exclusive rabbit magazine published. "Hares and Rabbits," published monthly, 50c per year. Address Hares and Rabbits, Greenfield, Ind. 2

REDUCE THE HIGH COST of living by raising domesticated rabbits. The Pet Stock Journal, Bob B3, Lamoni, Iowa, will tell you the best methods for pleasure or profit. Special, 8 months, for 25 cents. 2-4

MAGIC CITY RABBITRIES—12 choice Rufus Red pedigreed bucks, \$2.50 to \$3.50 each. 1219 E. Willard St., Muncie, Ind. 2

BELGIAN HARES, Flemish Giants, youngsters from Chicago Coliseum winners; very reasonable; order now. J. Durrant, Maywood, Ill. 2

RAISE BELGIAN HARES—New Zealand Reds, Flemish Giants; wonderfully interesting magazine, tells where to sell for \$2 to \$15 each. Also covers all other outdoor industries. 10c a copy (50c a year). Address Outdoor Enterprises, Sub. Dept. 3, 804 Admiral Blvd., Kansas City, Mo. 2-18-ft

GUINEAS

PEARL AND WHITE African guineas cheap. Bare Poultry Co., Box 909, Hampton, Iowa. 2-4

PEARL GUINEAS, \$1 each; White Guineas, \$2 each. Large flock to select from. John Hass, Bettendorf, Iowa. 2-4

GUINEA PIGS

BOOKLET BREEDING guinea pigs 20 cts. Warren Fluck, East Greenville, Pa. 4-17-lyr

DOGS

REGISTERED SCOTCH COLLIE Puppies—\$5 to \$10; catalog stamp. Failing Poultry Farm, La Pargeville, N. Y. 1-3

REGISTERED AIREDALE PUPS for sale from choice breeding and good quality, best rat, vermin and watch dogs on earth. Holland Bros., Mystic, Iowa. 12-2

BEAUTIFUL, REGISTRABLE SCOTCH Collie male pups, \$8. Meadow Farm, Coulterville, Ill. 11

PEDIGREED COLLIE PUPS. Males, \$10; females, \$5; London Hope at stud, fee \$10. Plummer McCullough, Mercer, Pa. 9-15ft

ON INSTALLMENTS—We offer you Airedale and Collie bred matrons thus; dog and bitch pups, spayed bitch pups, list and terms free. Springdale Kennels, St. Charles, Ill. 10-17-ft

PET STOCK

BEAUTIFUL ANGORA CATS and kittens; make the best ratters, \$5 up. Stamp for reply. Bay View Farm, North Haven, Maine. 12-2

ASK BOIES—He's got 'em. Dogs, cats, rabbits, covies, rats, mice, squirrels, ferrets, fur-bearing animals, milch goats, poultry, pigeons, pheasants, singing, talking and ornamental birds. Complete price list, with feeding and breeding chart, 5c. Boies Rabbit, Book, illustrated, many receipts for serving, 25c. Books on Rats and Mice, 25c. Covies, 25c and \$1. Boies, Box 213, Millbrook, N. Y. 2

POULTRY AND PET STOCK catalog on request. Dangers & Co., Sleepy Eye, Minn. 2-4

PHEASANTS, NINE VARIETIES; White Crested Polish and Houdans; White, Black and Buff Cochins; Red Pyle and Light Brahma Bantams; Silkies, pigeons, rabbits and hares. Maple Grove Pheasant and Pet Stock Corp., 43 Iden Ave., Peiham Manor, N. Y. 2

PONIES

FOR SALE—SHETLAND pony stallion; black, 40 inches high, sound, gentle, broke to ride and drive; also two mares. Henry Peterson, Wallingford, Iowa. 2-3

FERRETS

2,000 FERRETS—EITHER color. Small. Mated pairs or dozen lots. Pamphlet and price list free. Levi Farnsworth, New London, Ohio. 8-3

ORNAMENTAL

SILKIES—LAKE GEORGE Game Farm, Lake George, New York. 12-5

INCUBATORS AND BROODERS

SACRIFICE SALE INCUBATORS—My husband's absence necessitates disposal of following Cyphers Lamp Incubators: Twenty Special Size, 500-egg Cyphers; used four seasons, \$30. Forty 400 Chas. Cyphers; used only four hatches, \$22. Four 240 Cyphers; fine condition, \$20. All guaranteed good working condition and complete. Special price on ten. Eliminate unnecessary correspondence, order direct from this ad. Mrs. Ralph Reeds, 4400 Terrace, Kansas City, Mo. 1

\$25 BUYS 600-EGG Mandy Lee Incubator in good condition. R. L. Cass, Short Falls, N. H. 1-3

TEN WHITE LEGHORN Baby Chicks Free to introduce my New Natural Heat Economy Brooder. Send \$5 for New Brooder and I will include 10 Premium Chicks free, or 20 Chicks free with \$10.00 Brooder if ordered at once direct from this advertisement. Can ship safely over three days journey. Forty years experience in developing the Philo System. Reference any bank or reliable poultryman. Edgar W. Philo, Philo Farms, Rood, Fla. 1-2

FOR SALE—EIGHTEEN hundred egg Hall Mammoth incubator; used two seasons, excellent condition. J. Lloyd Prunty, Wamego, Kans. 2

FOR SALE—250-EGG Imperial incubator in first-class condition; \$12. M. Silver, Route 1, Box 96, State College, Pa. 2

CHEAP—TWO CANDEE Hot Water Incubators, good order, capacity each 4,800 eggs; sell separate or together. Tanglewood Poultry Ranch, Rockville Centre, N. Y. 2

3,000-EGG CANDEE INCUBATOR—Temporarily nursery and wired for electric lights. Forced to sell at once, as I am in the first draft and must join the colors. Price \$160. Louis M. Murray, Salix, Iowa. 2-3

BUCKEYE INCUBATORS—Both grades, five sizes, at 1917 prices. 60-egg, \$8.50; 250-egg, \$19.50. Also Standard brooders. Guaranteed new, money back if not satisfied. Immediate shipment. Buckeye Sales Co., 438 Eldorado St., Appleton, Wis. 2-4

2,400 EGG CANDEE INCUBATOR—With late improvements. Used successfully two seasons. Price \$185. Henningsen Bros., Dike, Iowa. 2

SACRIFICE SALE—Cyphers incubators, Paradise brooder, stoves, mixer, cutter, books, etc.; like new. Prices mailed. Wm. H. Blackburn, Lockland, Ohio. 2

FOR SALE—10,400-egg Cyphers Mammoth incubator in first-class condition; other business takes my time. Box 466, Mt. Vernon, Iowa. 2

TWO 120 SIZE Cyphers Electrobators, two electric brooders for sale, cheap. H. F. Leichtfuss, 807 Grant Blvd., Milwaukee, Wis. 2-3

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CANDEE INCUBATOR FOR SALE—Nine 600-egg sections, with large heater; this machine is a late model, in A-1 condition. Write for prices and particulars. Valley Poultry Farm, Route 1, Wilmington, O. 2-3

NEW 390-EGG Cyphers incubator, \$27, Albers, Lombard, Ill. 2

INCUBATORS, CYPHERS 390 and 120; Simplex brooder stove, cheap. Geo. F. Conrad, Amanda, Ohio. 2-4

FOR SALE—CANDEE incubator, first-class condition; four 600-egg sections, with heater, \$55 per section, \$250 for complete incubator. C. R. Tinkey, 66 North Franklin Ave., Mansfield, Ohio. 2

FOR SALE—4200-EGG CANDEE incubator; nearly new; will help set up; chick contract. Harry Spaulding, Quincy, Mich. 2

FOR SALE—3 65-egg Buckeye hot water incubators, complete; never been used, as I changed my plans after purchasing. Cost \$10.50 each. Will sacrifice for \$8 each; cash, no trade; make remittance payable to American Poultry Journal. Address R. care American Poultry Journal, Chicago, Ill. 1-18-1f

FOR SALE—NEW 400-egg Axford incubator. J. L. Blair, Batavia, Ill. 2

INCUBATOR FOR SALE—Newtown Little Giant; coal and gas heater; good as new; will sell cheap. Standard Supply Co., McConnelville, Ohio. 2

POULTRY SUPPLIES

FOR SALE—1500-chick Simplex brooder stove; Mann's bone grinder; like new; bargain. Allan Phillips, Vulcan, Mich. 2

FOR SALE—20 International Sanitary hovers; used one season only; good condition; cost \$10 new; will sell for \$5 each or \$90 the lot. Fritz Kelly, Ilchester, Md. 2

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DORAN'S GAPE REMEDY will positively cure gapes or money back; 25c; agents wanted; circular free. Address Box 117, Brandenburg, Ky. 2-6

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MAGIC EGG TESTER tells hatchable eggs before incubating; one year trial, money-back guarantee; 90,000 sold; catalog. Welday, Seville, Ohio. 2-4

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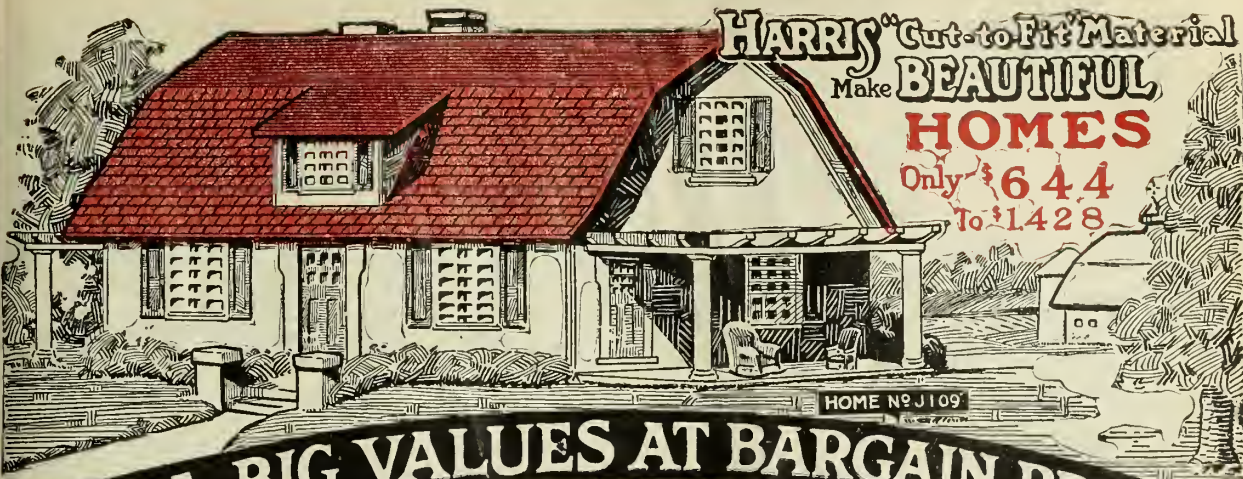
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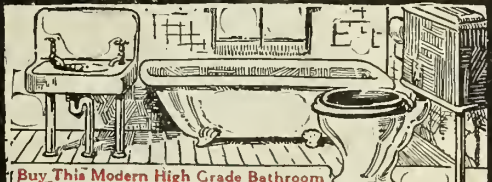
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AMERICAN POULTRY JOURNAL

VOL. 49, NO. 3

MARCH, 1918



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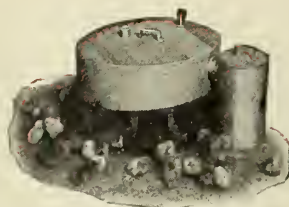
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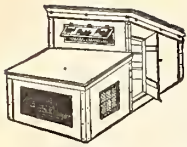
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WINTER LAYERS

EXHIBITION QUALITY

Aldrich Pen of S. C. White Orpingtons, at N. L. Contest, Mountain Grove, Mo., ties with Wyandotte Pen for Highest Egg Record in January, of the coldest winter known in many years.

AND READ THIS:

Bozeman, Montana, January 18, 1918.



First Cockerel
Chicago Coliseum, 1917

Aldrich Poultry Farm, Columbus, Ohio.
Gentlemen—I know you will be pleased to learn that my Aldrich strain White Orpingtons have gotten firmly fixed in the habit of the individual honors at the All-Northwest Egg Laying Contest at Pullman, Wash.

In December, 1916, my pullet, No. 1271, had a clear lead of one egg above the entire thousand or twelve hundred birds entered. She came back again in February and was in second place for the month and 4th place for the winter egg period ending February 28th. My pen was in 3rd place for the month of February and also in the same place for the entire winter period previously mentioned, tho the birds comprising the pen were all April hatched and did not commence laying for an average period of 30 days after the contest opened on October 15th.

One of my pullets, which commenced laying on November 3, was in 4th place for that month and finished the contest one egg ahead of all Orpingtons entered. Her nearest competitor being a Buff.

My pen the present season was comprised of pullets hatched March 28 and April 9. We had the most backward season ever. Chicks were two to three weeks or more late in maturing. Four of the pen started laying in November, the other one and the alternate on December 3rd and 10th.

Last season, while your Mr. E. S. Aldrich was secretary of the White Orpington Club, I remember some ribbons and trophies were offered. If a ribbon is awarded to the individual female leading the contest in any month, what is the deserts of a pen which produces double leaders in addition to the ribbons, or didn't the officers of the club anticipate such a sensational record?
Very truly,
MRS. W. T. THOMPSON.

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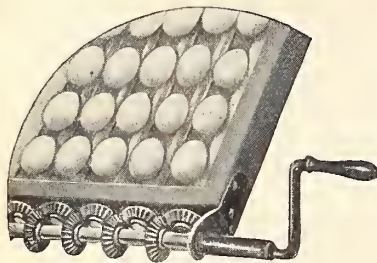
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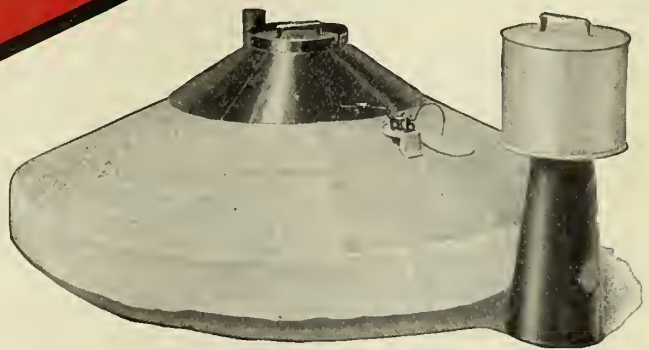
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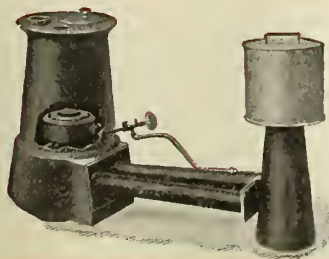
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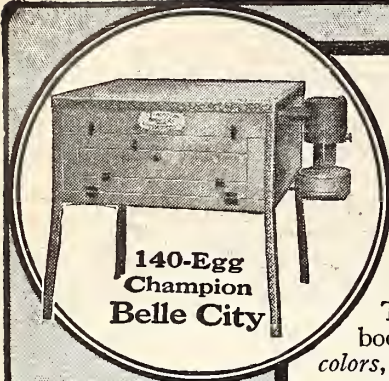
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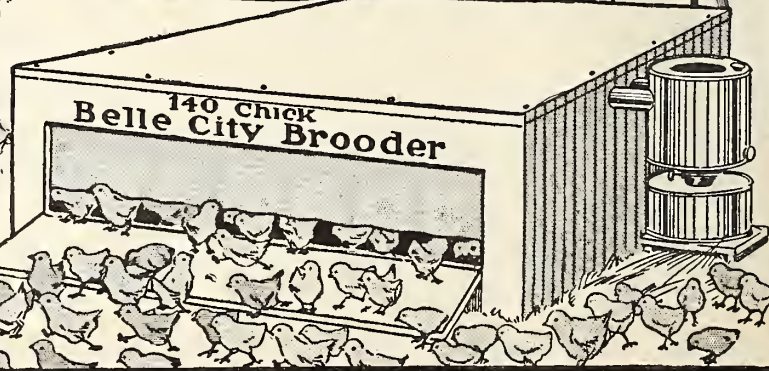
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I personally stand back of every machine that goes thru my factory—with a WRITTEN FIVE-YEAR GUARANTEE OF SERVICE. I guarantee to send you a genuine Underwood, exactly as here illustrated and described. And you don't even have to buy the machine to try it and prove its extraordinary value at my price. Try it for 10 Days FREE—and then, if you are not perfectly satisfied, I request you to return it to me. I will refund any deposit or charge paid by you. Could I protect you more?

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Typewriter Emporium, 34-38 Lake Street, Chicago.

Send me immediately full facts about your special offer

Name.....
Street or R. R. No.....
City.....
State.....

Shoemaker Poultry Farm

Freeport Illinois

Established Over 28 Years

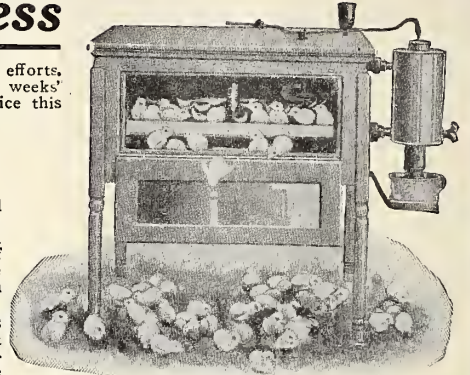
Don't endanger your success

by using a poor incubator. Your incubator will be the keystone of your season's efforts. If it fails you or does not give the maximum of efficiency you lose at least several weeks' time, or maybe the whole season. Incubators will be hard to get on short notice this spring, due to manufacturing and shipping difficulties, so prepare now.

Globe Incubators and Brooders

are not just "good enough." They are the best machines on the market today and we are willing to prove it. They are not mail order house machines, but are built to last and give satisfaction for a generation. No machine leaves the factory until it passes the most rigid examinations, for our good name is back of every one of them. Our motto is: "How good we can build them—not how cheap." The remarkable hatches which our customers obtain is positive proof that you can afford to buy but one incubator and that is the GLOBE.

Genuine success cannot be achieved in incubator work unless the work is completed by using a really good brooder. Compared with an incubator, a brooder is rather a simple apparatus, but nevertheless the work it has to do demands that it be thoroughly well made. Globe brooders are made with the same painstaking care as Globe incubators.



HATCHING EGGS Let us book your order for Eggs NOW for prompt DELIVERY

Poultry Almanac For 1918

It is a textbook of information. Tells about and shows pictures of the different varieties, incubators, brooders; poultry ills and how to cure them, what and how to feed, how to build poultry houses, etc. Write for it today, inclosing 15 cts.

We Breed 48 Varieties of Poultry

and can supply your wants. Our old customers come back year after year, which proves we give satisfaction. We believe in always giving them a bit more than they pay for. Don't delay your order for eggs. Remember, many unforeseen difficulties are constantly arising, and delay may mean serious loss.

Send for our Poultry Almanac today—all about Fowls and Incubators—Price 15c.

C. C. SHOEMAKER Breeder of Birds of Better Quality BOX 605, FREEPORT, ILL.

How to Raise Chicks

By Prince T. Woods, M. D.
Managing Editor American Poultry Journal

A guide to success in this, the most difficult, poultry problem. The results of years of practical experience and study. Written in plain language by a man who knows how, and how to teach others.

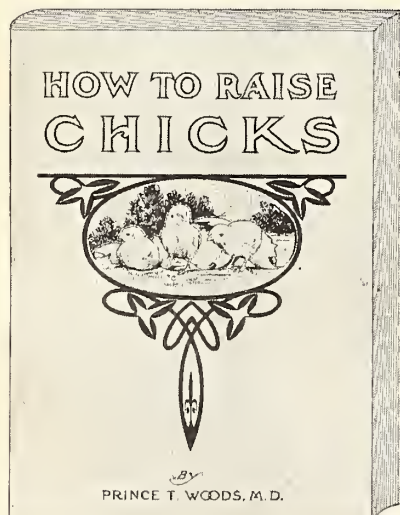
This book will save many dollars

for any poultryman, but it is indispensable to the beginner.

It has ten chapters: Chapter I—Selecting and Mating Breeding Stock. Chapter II—Food, Vegetable, Animal and Mineral. Chapter III—Fowls and Food. Chapter IV—Care and Management of Breeders. Chapter V—Eggs for Hatching. Chapter VI—Incubation, Natural and Artificial. Chapter VII—Brooding with Hens and with Brooders. Chapter VIII—Chick Foods and Feeding Chicks. Chapter IX—Growing Chicks. Chapter X—Facts About White Diarrhoea. What white diarrhoea is. Symptoms of disease. Causes. Is there more than one form? Has germ of specific disease been found? Infection. Prevention. Treatment. Formula for a simple remedy which has proved effective in many cases in many climates for years.

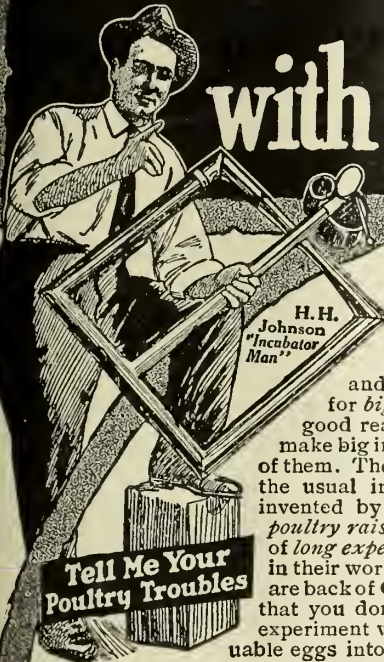
Don't go through years of costly and discouraging experiments to learn the facts taught in this book. One chick saved will pay for it. Learn how to feed, how to avoid and prevent disease, how to make your own brooders and chick foods—how to turn loss into profit.

88 pages, 35 illustrations from photographs and pen drawings, printed on good paper, handsomely bound in cloth, price 75c postpaid.



American Poultry Journal Pub. Co., 542 So. Dearborn St., Chicago, Ill.

Be a Money Maker this year with Old Trusty



Tell Me Your Poultry Troubles

Send and Get This ABC of Poultry-Raising

and let me put you on the right track for *big profits* this year. There are good reasons why Old Trusty owners make big incomes. Let me give you some of them. They get a machine that's *unlike* the usual incubator. Old Trusty was invented by a *practical engineer and poultry raiser*—and is built by workers of *long experience* and who take pride in their work. *26 years* of experience are back of Old Trusty. That means that you don't try out somebody's experiment when you put your valuable eggs into it and await results.



750,000 Pleased Customers say: "Get Johnson's Book, you are missing something if you don't!"

The More Eggs Are Worth—the More You Want Old Trusty

You *can't* afford to experiment this year—you don't want to gamble. That is why you need Old Trusty more than ever. If you don't use Old Trusty, where else can you get a hatcher that is built as well? That has for example, a case with *triple walls* besides dead air spaces made by heavy dented insulation—that heats up in the *coldest weather*, that has a *pure copper* hot water heating system designed by a practical engineer—that has a *big drawer-shaped oil tank* holding 6 quarts of oil—that has the Old Trusty *handy thermometer holder*—that is so simple that anyone can run it, and that has a *long record* for *big average hatches*. Where else can you get anything like Old Trusty construction at Old Trusty's *low price*? When customers write that they have used Old Trusty every year for ten, *twelve and fifteen years*, and the incubator is still good, it's a pretty sure sign Old Trusty *must* be right.

Neighbors' Successes Made Him Investigate

Buxton, Iowa, October 1, 1917.
Please mail me your catalog and other printed matter. Quite a few poultry raisers in this section are having phenomenal success with your product, has influenced me to investigate your product.
Yours truly, HENRY U. MEASE.

Mail Coupon or Postal Today

and get our book and learn why so many succeed every year with Old

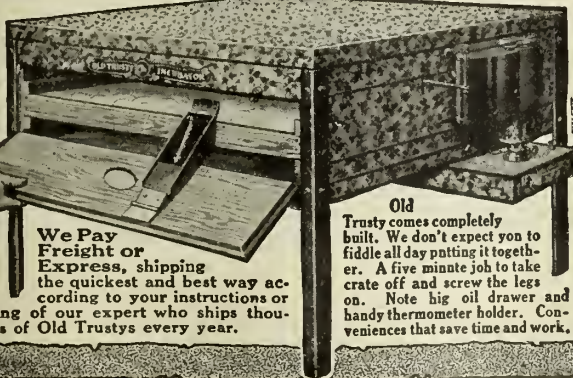
Trusty. Learn how easy it is to get big average hatches not just once in a while, but *every* time. Learn what it means to own an incubator that's good for business for *ten, fifteen years or more*. Learn how Old Trusty takes work out of raising big flocks. Learn the satisfaction of using an incubator that's built at the *hub of the incubator world*, and that has brought success and profits to over *three-quarters of a million owners*—many *times* more than any other incubator can show. *Get our book*—whether you intend to buy now or later, we are glad to send it *free*. Send for it—**TODAY**.
Yours truly, H. H. Johnson, "Incubator Man."



M. M. Johnson, Inventor of "Old Trusty"

M. M. JOHNSON COMPANY, Clay Center, Neb.

750,000 Owners Say You Can't Beat OLD TRUSTY



We Pay Freight or Express, shipping the quickest and best way according to your instructions or routing of our expert who ships thousands of Old Trustys every year.

Old Trusty comes completely built. We don't expect you to fiddle all day putting it together. A five minute job to take crate off and screw the legs on. Note big oil drawer and handy thermometer holder. Conveniences that save time and work.

M. M. Johnson Company, Clay Center, Neb.

Please send me your Old Trusty Book. (Mail a postal if more convenient.)

Name.....

Address.....

Answer following questions if you care to:

How many chickens do you keep?.....

Do your hens lay in fall and winter?.....

Have you used an incubator and have you been successful?.....

Do you live in town or on the farm?.....

Have you had any poultry troubles?.....

A WONDERFUL VICTORY

AT THE
COLISEUM, CHICAGO, DECEMBER 4-9, 1917



*THIS PHOTO —
 ABSOLUTELY UNRETOUCHED*

Male in First Old Pen, Chicago Coliseum, December, 1917

Cocks	Hens	Cockerels	Pullets	Old Pens	Yg. Pens
1	2	1	2	1	2
2	4	4	3	3	4
4	7	5		4	5
5					
6					

I had 58 Leghorns entered; 45 were placed. If you wish exhibition stock or hatching eggs from the very best matings, write me today. I have the stock in quality and in quantity. I guarantee to satisfy my customers. I quote rock-bottom prices. Where else can you buy S. C. White Leghorns of an established strain that win year after year, both in the show-room and in egg-laying contests? Write me your wants today; I will guarantee to fill them.

BUY MY LEGHORNS AND WIN IN THE SHOW-ROOM

1,000 head of young stock are now on my 15-acre poultry plant, awaiting the pleasure of my customers. Every one of these Leghorns is from a pen headed by a Blue Ribbon Coliseum winner. The foremost judges in the country pronounce my 1918 matings the equal of any they have ever seen. My guarantee to satisfy you is given with every sale. Drop me a line today.

Experts on My Great Victory

"I have photographed the best specimens of S. C. White Leghorns exhibited at the Coliseum Show for more than ten years, and I feel that I am entirely competent to speak of the quality of the Leghorns that have been exhibited there during that period. This year the class was stronger than at any time in the past. The specimens exhibited by Frank E. Hering—about 60 in number—were easily the best that have ever been exhibited at the Coliseum. His entries were uniformly strong. He has developed a type with splendid station and fine Leghorn lines that delight the eye of the true Leghorn breeder and fancier. Among Leghorn breeders, Mr. Hering must be assigned one of the foremost places."—Louis Stahmer, Artist of the American Poultry Journal.

"I have been a judge in one or another of the Leghorn varieties at the Coliseum, Chicago, for the last seven years. I consider the S. C. White Leghorn class of 1917 the very strongest that has ever been exhibited at the Coliseum. Frank E. Hering has won the Sweepstakes Championship for the third successive year. This year he had seven entries in each of the single classes and six pens. It is the simple truth to say that his Leghorns are considerably stronger in every class this year than ever before, and that is a mighty strong assertion. Mr. Hering has earned the right to be considered in the select class of the very foremost breeders of S. C. White Leghorns in the country."—Herman Rikhoff, A. P. A. Judge.

1918 - Hatching Eggs - 1918

Eggs from the finest exhibition S. C. White Leghorn matings:

- Per sitting of 15 eggs . . . \$10.00
- Three sittings for . . . 25.00
- One hundred eggs for . . . 50.00

In case eggs from special pens are designated, add 25% additional.

Eggs from other pens headed by Coliseum Winners —but not Blue Ribbon Males:

- Per sitting of 15 eggs . . . \$ 5.00
- Three sittings for . . . 12.50
- One hundred eggs for . . . 25.00

My Guarantee

I will guarantee eleven fertile eggs out of every fifteen. Shipments are all carefully packed so as to provide against breakage as well as against extremes of weather. I ship to remote points of the country with excellent results.

WRITE FOR FREE MATING LIST TODAY

FRANK E. HERING
 Desk B South Bend, Indiana



VICTORY
 1st Cockerel, The Coliseum, December 1917
 His Kind Comes in Clusters . . . of ONE!
 (This photograph has not been retouched)

It Raises Them All

The Standard Colony Brooder has brought certainty of results to the poultry world.

It has taken the risk out of chicken raising by making three chicks grow where one grew before; by reducing the labor involved to one-fourth; by reducing the cost to less than half.

There's ample proof of every word of these remarkable statements in the wonderful experiences related by the 30,000 delighted users of the

STANDARD Colony Brooder

Behind these experiences are good reasons for its remarkable results. It is absolutely automatic in action, and so simple and positive that it can't go wrong.

Burns soft or hard coal at an operating expense of less than six cents a day, with nothing to break and nothing to wear out. 100 to 1000 chicks.

Write your own money-back guarantee. Put into it everything you would expect a perfect brooder to do—and a guarantee that the Standard will do it. We'll sign it, then give you thirty days to try it. If the Standard Colony Brooder does not work up to your guarantee in every particular, we'll take it back and refund your money.

The reasons for its superiority are found in our new catalog, which points the way to profits in chicken raising, and proves every word it says by the most wonderful collection of testimonials ever published. Get that catalog! It means profit for you. Write for it today.

Over 6,000 enthusiastic dealers sell the Standard Colony Brooder. You may see it in operation at their places. If you don't know the dealer in your town, we will gladly tell you.

The Buckeye Incubator Company

11 Euclid Avenue,

Springfield, Ohio

Pacific Coast Branch Box 11
Oakland, California



BUCKEYE THE PERFECT INCUBATOR

The Buckeye incubator is guaranteed always to give a perfect hatch of the largest and strongest chicks, or we take it back.

The fame of this guarantee has traveled from sea to sea. Over half a million "Buckeyes" are in use by big and little breeders and over 6,000 leading dealers sell it.



A Bit of Advice For You from Owen Farms

Every poultryman will have two ambitions this year. First, to produce all the meat and eggs he possibly can to help release beef and pork for the use of our "Boys Over There;" second, to not only hold the fine average quality now existing in the unmatched flocks on this continent, but to make the usual advance in average quality.



Buff Orpington
1st Madison Square Garden



White Wyandotte
1st Chicago Coliseum



S. C. R. I. Red
1st Madison Square Garden

To my mind there is just one way to fulfill these ambitions: First, for each one of us to hatch and bring to salable age more chicks than ever before in our lives. At broiler age, cull harder than we usually do. At roaster age cull very hard and market every cockerel that will not make a good breeder. Sell every husky pullet that is off in Standard requirements but will make a paying layer to egg farms or to the thousands of new back yard poultrymen that will keep layers next winter. This course of procedure will produce our maximum quantity of meat and eggs and will produce

Real Quality in Quantity

Every mating of poultry or of any other animal or bird that was ever made has produced a percentage of culls not worthy to use as thorobred breeders. If you hatch fewer chicks than in former years, you will have fewer good birds next fall than normally and you will not accomplish your patriotic duty of producing all the poultry meat you can. Should every poultryman follow this same course, there will be a dearth of good birds and a famine in poultry products.

Every poultryman must make a sacrifice if necessary. I believe that the market prices the coming summer and fall will enable us all to make expenses or a little more from the sale of market poultry and eggs even at high food costs. More and more the poultryman of the country will feel our obligation and help by doing our bit. In our humble way we can make our links in the chain the strongest of all, and it will be utterly impossible to break it. Let each one of us consider it not only a duty but a privilege to "Do our bit" in the way we can do it best and in the way that will be most helpful to our Country and to the cause of Democracy. Always remember one fact: It costs no more to feed good birds than poor ones, and good birds bring better results.

What Owen Farms Has Done

In the face of heavy feed bills and increased costs in other ways, I have kept over and now offer you eggs for hatching from my usual number of high-class birds. Many customers have already sent on egg orders who ordinarily buy stock. Liberty Loan, Red Cross, Y. M. C. A. and other patriotic ways have taken the money they intended buying birds with last winter. They will add their egg orders to those of my thousands of regular egg customers. I have done my bit by holding and mating the best birds that were ever on Owen Farms in

White Plymouth Rocks
S. C. White Leghorns
White Wyandottes
White Orpingtons
Buff Orpingtons
S. C. R. I. Reds



White Plymouth Rock
1st Madison Square Garden



White Leghorn
1st Madison Square Garden



White Orpington
1st Madison Square Garden

My mating list describes all my matings and gives you the wonderful winnings of my flock. The records of my birds in the hottest competition have proved them the real leaders year after year. My egg prices are the cheapest, quality considered, on the Continent. Owen Farms eggs for hatching are a real investment at

\$6.00, \$10.00, \$15.00 or \$20.00 per 15

A few fine breeders for sale in each variety. From the same blood lines that have produced over 400 first prize birds at Madison Square Garden, New York.

My mating list is yours for the asking. Advise your booking your order early to secure shipment the date you wish the eggs. Come and see the wonderful Owen Farms. If you cannot come, write and get acquainted. Satisfaction to every customer is my first thought.

OWEN FARMS Office at 107 William St., Vineyard Haven, Mass.
Maurice F. Delano, Proprietor Frank H. Davey, Superintendent

AMERICAN POULTRY JOURNAL

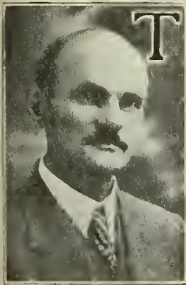
Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879.

Volume 49

Chicago, Ill., March, 1918

No. 3

PRESENT-DAY POULTRY FARMS



Edward F. Schmidt
Mgr. Poultry Dept.

THERE are few men to whom are given the opportunity to take the wild beauty of Nature, and with the aid of the conveniences and works of man, improve on it. Of the few to whom the opportunity is given, the majority fail. Not so with Carl E. Schmidt, owner of the Schmidt Stock and Poultry Farm, Route 1, Oscoda, Mich., the poultry department of which is known as Walhalla Poultry Farm — Walhalla meaning a "haven of refuge," and the name is truly applied. Mr. Schmidt, a thoro sportsman and born lover of animals, conceived the idea of making this beautiful tract of 10,000 acres

a veritable heaven on earth for man and beast, and we believe he has succeeded.

The farm occupies twelve miles of shore line on Lake Huron, and completely surrounds Cedar Lake, a body of water seven miles long, varying from a half mile to a mile in width. On the west shore of the lake is Seradella Farm, on which are conducted extensive agricultural pursuits, besides the production of pedigreed horses, cattle and sheep. It contains the manager's residence, office building, cattle, dairy, horse, sheep barns and other

farm buildings, private hotel, gymnasium hall, residence cottages for the married men and a school house. All buildings on both farms are equipped with electric lights, as is also the roadway thru the farms, and the bridge across the lake, connecting the poultry and livestock farms. When lighted, the two farms present the appearance of twin cities, and the roadways remind one of beautiful boulevards.



Geese Pasturing on Range.



A Row of Cottages at
Walhalla.

There are other buildings, colony houses, etc., too numerous to mention. They are all double-walled, with concrete floors, the space between the walls being filled with concrete to a height of three feet above the floor, thus being absolutely rat-proof. The remainder of the walls to the top are filled with sawdust, and the ceilings are lined with wall board. Thus they are comfortable, even in the cold winters prevailing in this locality, and frosted combs are strangers at Walhalla Farm.

It is easily understood why all of these conveniences, supervised by a poultryman with the well known ability of Mr. Schmidt, produce their remarkable winners.

All stock is reared under ideal free range. Conditions, which all make for the best that can be produced.



Panorama of Stock Department of Walhalla Farm.

What and How to Feed Growing Chicks

Test the Freshness and Sweetness of All Chick Food Before Feeding It. There Is Danger in Feeding Musty or Spoiled Grains. *By Maurice H. Decker, La Porte, Ind.*

AS SOON as the baby chicks are weaned from their nursery mixture of rolled oats, dry bread crumbs and hard-boiled eggs moistened a trifle with sweet milk, we start them upon a diet of commercial chick feed and milk mash. We find it pays to use ready mixed cracked grains and milk mash at this stage when the chicks' appetites are small, as they put on the greatest gains in proportion to the amount of food consumed. A good brand of each will prove more economical and satisfactory than the usual homemade feeds prepared by the poultryman. We give our chicks five meals each day at this period, the first as early as 4 o'clock in the morning, or it can be scattered in the litter at night after the chicks have gone to sleep. This meal, the one at noon and the one at night are of cracked chick grains, while those at 9 a. m. and 3 p. m. are of moistened milk mash. In addition, we keep dry milk mash and fine beef scraps mixed together, half and half, in small hoppers for the chicks to eat at will. This dry mixture is continued about ten days to two weeks until the chicks are accustomed to the beef scraps, and we feel assured they will not over-eat of the pure scraps which are now substituted in the hoppers. Most directions that accompany chick mashes read to feed dry, but we have never yet been able to get as satisfactory a growth with dry mash as we do by giving it moistened, either with water or sweet milk, twice a day.

It costs the least to put on the first pound of weight on a chick and more for each succeeding pound; in fact, a good healthy growing chick will gain as much the first two months of his life as he will the second two, and at practically one-half the cost in feed. Therefore, it is to the poultryman's interest to feed whatever food, the first sixteen weeks, will force the chick along to a maximum weight and after this period use cheaper, more common grains and ground feeds

that will still encourage thrifty growth; for by this time an active growing chick is less particular what he eats so long as he has sufficient to fill his crop. Counting the extra room gained by the pullets and the additional time released to spend upon their care, it hardly pays to keep cockerels intended for market poultry longer than the time required for them to reach 2 to 4-pound weights.

When the chicks are three weeks old we begin to decrease their supply of commercial chick feed, substituting a mixture of our own until in about two weeks later they are getting none of the former. This mixture is composed of 100 pounds of fine cracked corn with the meal screened out, 200 pounds wheat screenings and 50 pounds of steel cut oatmeal or hulled oats. If hulled oats reach a lower level in price we will feed a little more of them, probably 75 pounds instead of 50. This mixture, with an occasional evening feed of cracked corn alone, when the chicks appear particularly eager for corn, is continued until the chicks are large enough to eat regular scratch grain.

Wheat screenings are one of the most economical feeds we can buy at present and are well suited to both growing chicks and adult fowls. An abundance of them can be obtained in wheat-growing localities, as is our own, for screening is the first operation the wheat receives when it reaches the mill. We have laid in a good supply of the finer size of screenings, which contains over 60 percent of broken and shrunken wheat grains and probably 10-percent more of edible seeds such as fox-tail, timothy, etc., at a price of \$1.25 per cwt. in ton lots, or at the rate of 75 cents per bushel. These screenings, we figure, are worth to us for feeding chicks about one-half as much as commercial chick food, which makes them a very good buy, as chick feed will hardly sell under \$4 per hundred this season. Screenings furnish



First prize S. C. White Leghorn cockerel at Madison Square Garden, 1917-18. Owned by D. W. Young, Monroe, N. Y.



First prize Black Orpington pullet at Madison Square Garden, 1917-18. Owned by Moore & Bowlus, Fremont, Ohio.

a very good example of the varied workings of the price fixing on wheat. We live about midway between two towns, each within easy driving distance and both of which contains a mill. The mill at one removes the screenings from the farmers' wheat, pays them \$2.05 per bushel for the cleaned grain and allows them to take the screenings back home with

juice and all, in a food hopper. As soon as our early potatoes and sweet corn are up we will follow our practice, which proved very successful last year, and bury soaked oats between the rows for the chicks to dig up and eat. We scatter the soaked grain thickly ahead of the cultivator which covers it up nicely.

Special attention should be given to testing the freshness and sweetness of all chick food that is purchased. Last year when corn became scarce and high in price, much chick food containing musty cracked corn was sent out by the poultry feed mills, and it is reasonable to suppose the same will happen this season with a large percent of soft and poor corn in the country.

We have found our coal-burning brooders very useful for drying out soft corn until it is hard and dry enough to use for chick feed. We hang it up in loose woven burlap bags from the roof of the brooder, around the stove, where it is out of our way and in a week to ten days, and sometimes sooner, it is firm and dry. Last fall we bought a quantity of very soft corn that was wringing wet and spread it upon the floor of one of our brooders. We ran the stove for a few days and the stuff became dry enough to keep until it was fed out to pigs.

We intend to try out several different varieties of corn this season in the hopes of finding at least one that will mature dry enough for poultry feeding in the exceedingly short growing period we have here in Northern Indiana. Only a small proportion of our yellow dent is fit food for young chicks and then only after considerable drying. Perhaps Dr. Woods will tell us more about the Rhode Island White Flint corn and Yellow Flint corn he mentions in the issue of last November. I am sure details of the average yield, time of planting, length of required growing period and size of ears and fodder will prove of interest and value to poultrymen in the latitude of Chicago and Buffalo who have the facilities for growing corn for their poultry and who are becoming discouraged with the results obtained with our regular yellow dent varieties. A variety of corn that is dry enough to be ground into meal before the first of November, even if the yield is lower, certainly will prove more profitable than our customary varieties, which, when soft, are of no use to the poultryman and only bring a price of 25 to 30 cents per hundred pounds for feeding to cattle and hogs.



Champion White Plymouth Rock cockerel at Tri-State Fair, Memphis, Tenn., 1917. Owned by Mrs. Ira Johnston, County Avenue Poultry Farm, Box A, Texarkana, Ark.



"PERSHING"—Single Comb Black Minorca.

Cock in 1st prize pen, Chicago Coliseum, December, 1917. Owned by Charles G. Pape, B-74, Fort Wayne, Ind.

them. The mill at the other town paid me \$2.02 a bushel for our wheat, screenings and all, and then sold us the screenings for 75 cents per bushel. Another inconsistency we are unable to comprehend is, why do the prices upon bran and middlings raise when the price of wheat is fixed and stationary? We bought our first supply of bran at \$30 per ton and a few weeks later were asked \$36 a ton. The chaff and dirt in wheat screenings do no harm, for chicks one month old and over will pick out only the wholesome portions and leave the rest lay in the litter. We are feeding some of the screenings to our hens, particularly in a few pens where our Wyandottes appear a little too fat to lay their best. They encourage active exercise and appear to be cleaned up to the last small seed, altho thrown in six inches of straw litter.

When the chicks are large enough to eat regular sized cracked corn, we mix this with an equal weight of wheat screenings and feed twice a day. In addition, one meal a day is given of soaked whole oats, which we regard as the best way to feed oats to chicks old enough to eat the whole grain.

The milk mash is continued until the chicks are six weeks of age and then a mixture of 100 pounds bran, 100 pounds corn meal, 150 pounds middlings, 100 pounds ground oats and 60 pounds beef scrap is gradually substituted. This substitution must be very gradual or the chicks will experience a check in growth, for it is quite a drop from the concentrated flour-like mash to this coarser mixture. The beef scrap in open hoppers will be continued as long as we think the chicks are growing in proportion to the amount of extra scrap they consume. Last year we stopped feeding scraps in hoppers when the chicks were about six weeks old, which we now think was a little too soon. Meat scraps and good hard corn are particularly valuable feeds for forcing rapid growth in cold weather, so early broods will have scraps before them in addition to that contained in the mash at least until warmer weather comes.

For green feed we will depend upon mealed alfalfa mixed with the moist mash while the chicks are under one month old and then will feed green rye and oats, ground up fine,



PULLETS
 WINNERS OF EVERY
 PRIZE OFFERED
 AT
 MADISON SQUARE
 GARDEN
 NEW YORK 1918
 1st, 2nd, 3rd, 4th, 5th
 AND
 SWEEPSTAKE CHAMPION
 FEMALE
 AND EVERY SPECIAL
 OWNED, BRED, AND
 EXHIBITED
 BY



E. B. Thompson

Amenia, N.Y.

ECONOMIC VALUE OF THE FAT FOWL

Eat Well-Fattened Hens to Conserve "Red Meat" and Fats

By Prince T. Woods, M. D.

THE question is often asked, "Why do the Jewish people seek to buy 'fat old hens' in preference to other poultry?" The chief reason is that the "fat old hen" is the biggest food value for the least money to be found in the live meat market. The economic value of the well-fattened fowl is not generally well understood nor appreciated. Many people look upon a fat fowl as a wasteful purchase. So it is, if you are so ignorant of its value that you waste what you buy. Make good use of all that you buy in the fat fowl, and you have a variety of wholesome food at very moderate cost as compared with other meat food.

Our Uncle Sam is asking us to save beef, pork, and both beef and pork fats. We must save these "red meats" and we must save lard, suet and tallow. It will not be any hardship to do without these foods if we can find satisfactory and wholesome substitutes. The fat fowl will help in the conservation of fats and meat. Careless people ordinarily waste a considerable part of poultry, because they do not understand the value of their fowl and how to make best use of the dressed carcass. From one fat fowl can be secured a fine roast, soup stock, broth, "chicken butter"—better than lard and much superior to cooking butter—fat for frying, and a variety of left-overs from the roast. People in foreign lands utilize the whole fowl. Surely Americans can learn to do so. In making the best use of the whole fowl you not only "do your bit" but also benefit yourself and the whole family.

Living on a poultry farm, we have always used a good deal of poultry on the family table. It is not only the most convenient meat food but it is as good or better than most meat we can buy. With home-produced milk, butter, eggs and poultry, fish from the pond, and vegetables from the farm, we are fairly independent of the butcher shop. Believing that AMERICAN POULTRY JOURNAL readers will benefit, and also be better able to help Uncle Sam conserve "red meats" and fats, we have made a record of the well-fattened fowl, with some photographic illustrations, as it passes thru Mrs. Woods' commissary department.

We killed and dry picked a Black Langshan and a White Plymouth Rock, after letting them fast for 24 hours to make sure that the intestinal contents were reduced to the minimum. These birds were yearling hens and each weighed when dressed,

chilled, and dry, just 8¼ pounds, as shown in illustration, ready for market. The chief difference in these two birds was in quantity of meat and internal fat. The Langshan had rather more breast meat and less internal fat than the Rock. Otherwise the two hens yielded about the same quantity and value of food.

The yield of one fowl will serve for illustration. We utilize everything but the head, toe nails, and stripped intestines, of the dressed carcass. Some foreign cooks utilize the head and intestines, but this does not appeal to us. From one fat White Plymouth Rock fowl, weight 8¼ pounds dressed, we secured the following:

Soup parts, for chicken broth and soup stock, including legs, neck, and wing tips. The neck is cut close up to head and body, as it is seldom eaten if served with the fowl and it spends well in soup. The legs are washed clean, scalded to remove skin, and toe nails are chopped off. The legs are valuable in making soup and can be used for making stock jelly. The wing tips are removed at first joint and serve same purpose as legs. Total weight of these soup parts was half a pound.

Giblets, for use in supps and gravies or to be served fried. Weight of giblets one-quarter of a pound.

Fat, for making "chicken butter," a lard and cooking butter substitute, total weight one pound. This is equal to the best cooking butter for all culinary purposes. In an emergency it could, when properly prepared, be salted and used as a butter substitute. In the preparation of "chicken butter" the fat leaf and the fat about intestines, gizzard, etc., is all utilized. This is carefully tried out by heating the clean fat in the upper part of a double boiler, water being kept boiling vigorously in lower part. It is then strained into clean glass jars and allowed to cool. Frying fat is also secured from the carcass of the fowl when roasted, saving all that tries out.

Waste, is very small, the only waste being the practically empty intestines, stripped of fat; the gizzard contents, the gall bladder, the toe nails, and the head. Total weight of this fresh waste was half a pound. The bones from the roast carcass were used in soup and the remaining dry bone, about three-quarters of a pound, fed to the dog.

Roast Fowl, was the chief dish served and the net weight of the fowl when ready for stuffing was 6 pounds. Of the shrinkage all but half a pound of waste

Dressed carcass of White Plymouth Rock hen, cut open to display the fat leaf and fat about intestines. This fat is used for making "chicken butter." (See article "Economic Value of the Fat Fowl.")



"Chicken butter tried out of the leaf and intestinal fat of a White Rock hen. An ideal shortening, or lard and cooking butter substitute. (See article "Economic Value of the Fat Fowl.")

"By-products" from the fat fowl. Secured from a White Plymouth Rock hen prepared for roast. From left to right these foods are: one and one-half pints of rich soup stock (jellied); one pint rich chicken broth; half a pound of fat for frying; about one pound of best quality "chicken butter" in last two jars at right. (See article "Economic Value of the Fat Fowl.")



was economically utilized. The following is a summary of what one 8¼-pound dressed fat fowl may be made to yield:

Six pound roast fowl when ready for stuffing.

1½ pints of rich soup stock.

About one pound best "chicken butter."

Half a pound of good fat for frying.

One pint of rich chicken broth.

One-quarter pound of giblets, including liver, heart and gizzard.

The roast fowl makes meat for one good hot dinner for two adults and two children; cold meat for another meal; minced chicken on toast for a third meal.

The market value of the dressed carcass was \$2.50. From it was secured a roast equal to or better than any other meat roast that could be bought for \$2.50, and this roast was net weight already trimmed down to eliminate practically all waste. About a pound of "chicken butter" worth 40 cents, at present prices, was secured. The giblets were worth not less than 10 cents, and if served in a restaurant would cost four times that amount. The soup and broth, worth fully 35 cents, furnished part of another meal. The fat for frying saved at least 15 cents. Without counting the last item, which was salvaged from the roast, about \$3.35 worth of wholesome food was secured from that 8¼-pound White Plymouth Rock hen having a market value of \$2.50.

Fowls fattened on the back lot, or on the farm, can be made to do wonderful service in conserving our National food supply. A yearling or two-year-old hen of any heavy breed, and Plymouth Rocks particularly, can be quickly and easily

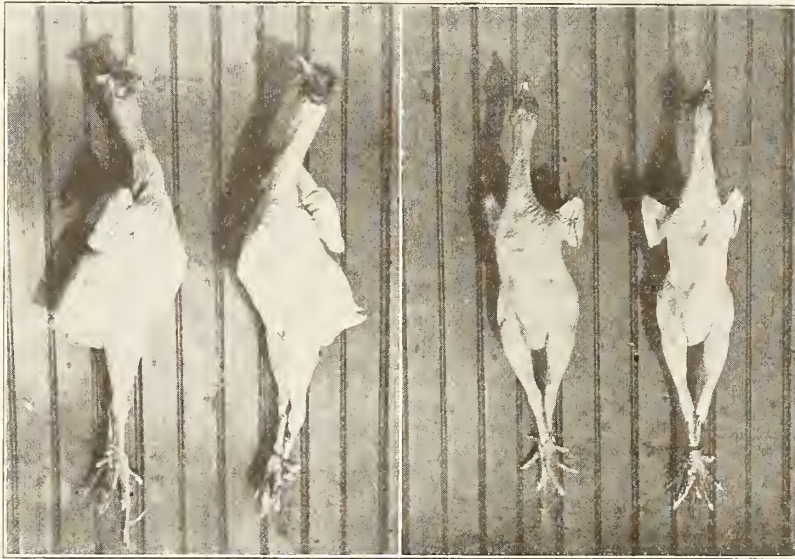


Fat, intestines surrounded by fat, giblets, etc., removed from fat fowl. All fat and giblets are saved for food.

fattened on food that cannot possibly be utilized for feeding human beings. So we can all help Uncle Sam to win the war, if, as he says "Food will win the war," by producing fat fowls and by making the best possible use of all that is good in the prime fat fowl.

Pies and cake are seldom seen in our home in these war times, but when they are made "chicken butter" takes the place of lard and cooking butter. "Chicken butter" has preference over all other fats for "shortening" and is used with success and satisfaction in bread making.

To help Uncle Sam, and for your own sake, make good use of the big food values in fine fat fowl.



Breast and profile views of dry-picked fat fowl. Weight of each, eight and one-quarter pounds. In each view the fowl at the left is a Black Langshan and that at the right is a White Plymouth Rock. Note the difference in shape of carcass.

Poultry and Garden on an Acre in 1917

A Story of an Off-Season's Success Raising Chicks and Vegetables. First Prize Article A. P. J. Monthly Contest.

By M. C. Wilson, Oil City, Pa.

THE YEAR 1917 will long be remembered by many poultrymen and war gardeners. Some for their successes, others for their failures. For the benefit of both, I will give an outline of our experience on an acre surrounding our residence. This acre is of irregular shape, being 91 feet on the east or front, 180 feet on the south, 241 feet on the west and 242-5/10 feet on the north. On the acre is a modern ten-room house, a good barn, good comfortable house for 100 layers, four large breeding pens, a chicken park about 30 x 200 feet, a shop and storage house for grain and general paraphernalia pertaining to poultry keeping, as well as a gas engine and general machinery.

Near the west line of this acre are (or were) ten large Montmorency cherry trees that seldom fail to produce large crops of extra fine cherries. Two years ago these trees produced thirty-five bushels of cherries and in 1917 we estimated our crop at thirty bushels, but one of the worst windstorms that has visited this section in many years came about two weeks before the crop was ready to pick, doing great damage to the row of trees, besides cutting our crop in two. The row of cherry trees is in the chicken park and here we raise about 200 youngsters to culling age. We give the

chicks credit for seldom having a wormy cherry, altho we do not spray the trees.

Usually we have from ten to twenty bushels of apples, but 1917 was an off-year for apples and we had scarcely a quarter of our usual crop, but our pears did unusually well and we had pears to eat, pears to can and pears to sell. We also had some plums, but one of our largest plum trees laden with fruit went over in the storm, also an apple and a pear tree, with a black walnut tree badly damaged. We had more currants than we could use, a nice lot of red raspberries, gooseberries, a few blackberries and sweet cherries. But now to the garden.

We do not figure on raising over what we use ourselves, yet we generally do so. We only devote odd times to gardening, as business keeps us away from home ten hours of the day, six days of the week, excepting holidays. Yet we find recreation in the long summer evenings and mornings in the garden and chicken yards. Right here let me assure you that the man who claims it is necessary to have a large range in order to raise vigorous, profitable, fancy fowls is just blowing a very poor quality of theory into his hearers' ears. I found that out away back in the 'eighties, when in the poul-

try business as a business, raising the chickens on land where the flock could have gone ten miles without finding a fence. But, did they? No! Back of our poultry houses was a ravine with a spring and shady trees, lots of leaves to scratch over, and right there you would find the flock with no inclination to go further, as long as they were fed enough food which was absolutely necessary to produce an average egg yield.

Year after year we raise about 200 chicks on our acre, besides having a good garden and a fair amount of fruit, and we stand ready to prove that we have more vigorous stock than the average poultry keeper. Last year we bred some of our most vigorous young stock from a hen nine years old. This hen could scarcely be picked out from a flock of yearlings. Would you know the secret of good chickens? Why, a good garden. The secret of a good garden? Why, a large flock of well-kept chickens.

About the first thing I plant in the spring is several rows of Swiss chard. I put it in with a seed planter, quite thick. When the plants are about two inches high, I set out six inches apart in rows about twelve inches apart in shady places and corners—any old place where it is too shady for other things to do well, but where the soil is good. This gives me a large amount of the very best green food for chickens from early in the summer until snow falls. We never pull the plant up by the roots. Just cut off the outside leaves when about six inches long. Other leaves keep forming from the center of the plant to be cut in a few days, furnishing one of the most relished green foods that can be grown for chickens from day-old to old age. My next planting is usually onions and lettuce, both valuable greens for poultry as well as for family use. We usually plant a bed of onion sets to furnish green onions for the table after the multipliers or winter onions are getting old. The multipliers always come first, being out all winter. They give an abundance of tender green onions about the time the others can be planted and up until the others are fit to use. As soon as the ground is fit to work, we plant onion seed for large onions for winter use. In 1917 we planted quite thickly a bed of onion seed 15 x 30 feet. As they came along we thinned out the young green onions for the table and in the fall harvested nine full bushels of nice large onions from the bed. In the next bed were beets and from it we took two bushels of beets after having used young beets all summer and fall for the table. We also had eight bushels of sugar mangels, eight bushels of carrots, six bushels of ruta-bagas or Swedish turnips, besides large beds of parsnips and salsify or oyster plant, both of which stay in the ground during the winter for use in the spring. We also had peppers, which are fine for chickens: beans, all the string variety we could use and



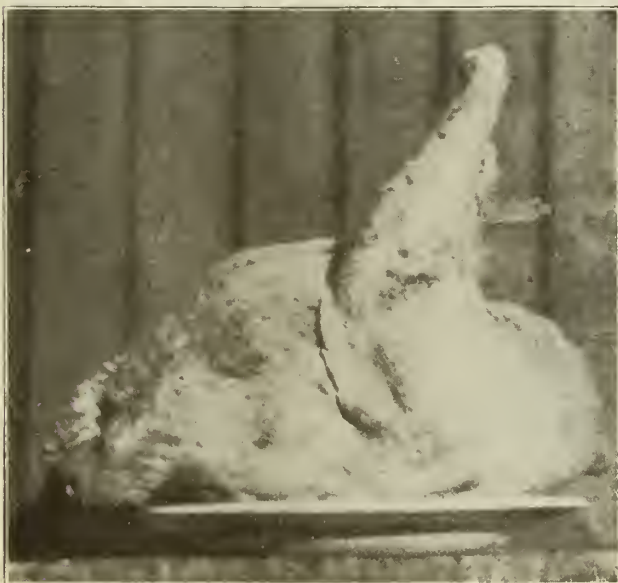
can, and some to sell, besides a bushel of shelled beans for winter. We had ten bushels of tomatoes, 150 dozen ears of extra quality sweet corn (and, by the way, we breed our sweet corn just as carefully as we do our chickens).

Between the rows of sweet corn we plant celery. We sow the seed in a bed early in the spring and set the plants out between the corn rows in July and up to August 10. We had fully as many stalks of celery as we had ears of corn. We have it every day on our table up to April and quite a lot of it to spare. Just beyond the corn patch we had 200 heads of cabbage, besides a great quantity of waste from it for the chickens. In odd corners about the garden we had patches of radishes, kohlrabi (which are better than turnips), peas in succession during the summer, parsley, asparagus in season and more extra fine pumpkins and squashes than we could use.

Spring chicken? Well, yes! Say, that was some garden, was it not, for an off-year that only measured five months and ten days between snows? The secret? Chickens, furnishing the most valuable fertilizer we have for gardens. We have been told that chicken manure is too strong, burns everything up and makes the ground hard. Yes, my benighted friend, it will, if you do not use considerable horse sense and give the chickens plenty of straw or litter or a sandy ground floor to dig over and pulverize. All the droppings from the roosts should be mixed with this straw and dirt and then kept dry. Add also a few loads of straw litter from the horse barn to the ground to supply humus and these will be no difficulty in getting good crops.

How about weeds? Well, they do not bother us at all. They are really one of our most valuable crops. The way we handle the weed proposition is that when we get up in the morning, we pull a few baskets of weeds and throw them over the fence to the chickens, and when we come home in the evening we do the same thing again, and the chickens transform the weeds into eggs and nice, juicy, tender, delicious spring chicken. Before long, we are looking for more weeds.

It ought to pay any man to have a garden and raise a flock of chickens for his own use. If it doesn't pay him, it is not the garden's or the chickens' fault.



Carcass of White Rock fowl ready to be stuffed for roasting. Net weight 6 pounds. (See article "Economic Value of the Fat Fowl.")

Advice to the Beginner with Poultry

Be Slow to Find Fault with Others For the Mistakes You Make Yourself. Second Prize Article A. P. J. Monthly Contest. *By Mrs. P. S. Brumfield, Van Bibber, Maryland*

PRACTICALLY every campaign which is now being carried on has a slogan. As yet I have not seen any suggested for the novices whom we are urging to take up poultry keeping this spring. All of these must either buy day-old chicks, adult stock, or eggs for hatching. Most of them know little about poultry culture and I would suggest that they adopt the slogan, "Be Slow to Find Fault."

One of the first things for the novice to learn is that the man from whom he buys chicks, eggs or stock cannot guarantee the beginner's success with them. I have seen perfectly well hatched, healthy, day-old chicks die off like sick flies within a week from the time they arrived at their destination. The man who hatched and sold the chicks was in no way to blame for the loss. Many people who have never kept chicks before think it a pleasant time to exhibit the chicks to their friends and handle them unduly. They also feed them "choice tidbits" which were never intended for chicken food. They move them from the living room to the shed and from the shed to the kitchen and thence to the chicken coop. Now, there is no animal or bird or beast which so dislikes to be moved from post to pillar and back again as a chicken—no, not excepting men. A chicken likes to be let alone as long as he is reasonably warm and well fed. The least handling and fussing over him the better. When he is hungry or cold he will cry for help and the help should be forthcoming without delay.

A year ago a family near a friend of mine in a small city took up poultry keeping. They bought the best breeding stock to be had and erected an attractive little poultry house in the back lot. As they did not want trouble with their neighbors, many of whom had extensive flower gardens and fruits, they fenced in their birds with a high wire fence. They had read a great deal of the "bunk" in regard to feed-

ing fowls on the waste from the family table, and everything from orange peels, egg shells and bacon rind on down, went into the poultry yard. The birds were laying when they got them, but less than two weeks of this stopped the laying. In six months the birds were wading around in swill and slime, none of them had laid for a long time and all of them were sick. The man whom the birds were bought of was blamed for the condition. He was even asked to refund the money and take the birds back, and when he would not do this, the birds were advertised as being his stock and sold to another party some distance away. The birds were refused by this buyer because they were half-starved and sick with colds and were eventually sold to market, tho they were not fit to be eaten. The breeder who originally sold the birds was blamed for all the trouble, tho he was in no wise to blame.

A person who has never superintended the hatching of chicks is not apt to be very successful at it, for it is as truly an art to hatch and raise chicks as it is to assemble a machine or to cut a garment to the cloth. It is a happy idea not to expect a chick from every egg. I know many of the estimates of profits in poultry keeping are based upon the supposition that every egg will hatch a chick, but not many people are successful in doing it. Taking it all around, I suppose an average of one chick from every two eggs would be a very fair average, tho it is possible to do better. In buying eggs for hatching I should never feel that I had reason to find fault if I was able to get eight chicks from fifteen eggs. If I raised five of those I should consider I was doing well.

While the man who sells the eggs, the chicks, or the breeding birds, as the case may be, is, of course, sometimes to blame for unfavorable results, it is my belief that in the case of the novice handling chicks, eggs, or breeders, the fault



S. C. Brown Ancona cockerel exhibited at Chicago Coliseum Show, 1917, by the originator, I. H. Murray, 11337 Longwood Drive, Chicago, Illinois.



Third prize White Wyandotte hen at Madison Square Garden, 1917-18. Owned by J. W. Andrews, Dighton, Mass.

is his, about nine times in ten. For this reason, I believe he needs to "be slow to find fault." Two years ago I knew of a shipment of 100 day-old chicks purchased by a novice. They were as fine, healthy a bunch of chicks as were ever hatched, and the purchaser was delighted with them. The whole family began to feed the chicks on a little of this and a little of that. When the chicks cried because they were not warm enough, they fed them more and more, and usually foods unsuited to the needs of little chickens. Before ten days had gone by, the chickens were beginning to appear "dumpy" and in two weeks nearly half of them were dead. The shipper, tho in all probability not in the least to blame, was asked to accept half payment for the chicks, which he did rather than have any trouble about the matter.

I would recommend that everyone purchasing chicks, eggs or stock first inform himself how to care for same and to be only reasonably sanguine in his expectations from his purchase. There is always bound to be more or less loss in handling live stock, and this is especially true in the case of the novice. The AMERICAN POULTRY JOURNAL is constantly printing good sound advice on how to hatch, rear and care for chicks. No one should attempt to undertake a thing of this kind without a little careful study of the subject. A man who buys an automobile and runs it without attempting to understand its mechanism or its requirements will soon run amuck. If he goes into the subject as he should, he will find that an automobile needs to be kept reasonably clean, well supplied with gasoline, oil and water. When he neglects any one of these things he is very apt to be brought to a sudden realization of his neglect. Little chicks require a like

attention. They should be kept in reasonably clean quarters, given nourishing food and water and an opportunity to exercise in the open air. During the brooding season they need supplied heat. They should have sunlight, green food and some form of grit or an opportunity to scratch in the earth. All food supplied them should be sound and wholesome and free from mold or must of any kind. A bit of decayed fruit or vegetable or a crust of moldy bread will be sufficient to upset the digestive apparatus of a flock of little chicks. The litter should be changed often to keep it free from contamination, and the brooder or coop should be open to the air and sunlight a part of every sunny day, if only for a few moments. Feed frequently while the chicks are small and keep a box of dry mash and well selected chick food before them all day long. Do not close coops or brooders tightly at night. Let a little fresh air in the brooder from the first, but as the chicks grow increase the opening and when large enough, leave the front of the coop open with only a screen to protect them from cats, skunks and the like. Let the chicks out early in the morning, as soon as the weather is at all spring-like. Many chicks die every spring and summer by being kept penned up in a closed coop for an hour or two after sun-up.

The novice must learn that poultry keeping or chick raising is just like any other undertaking. It requires the exercise of an uncommon amount of so-called "common sense." Go about the work with the determination to learn as much as possible in regard to it, and "be slow to find fault" with others, for the mistakes you make yourself.

Winning Articles in R. C. R. I. Red Contest

Following Are the Three Articles Which Won the Prizes Offered
by Hubert Meyer, Riverview Poultry Farm, Klondike, Missouri

R. C. Reds—Why I Breed Them

We Have the Best Variety of All. Let Us Watch That We Do Nothing to Impair Their Vitality and Other All-Around Good Qualities. First Prize Article. *By L. E. Rauch, Carbondale, Ill.*

I AM a railway postal clerk, and one day while our train was stopped at a station, the rural carrier, who often came for the mail, said to me, "Let me sell you a sitting of eggs." I jokingly answered that he would have to sell me a setting hen first, as I had no chickens at all. I thought nothing more about the matter until the next day when the train stopped at the station, here came Mr. Rural Router with a box in which a hen was sitting as quietly as one could wish. I gave him six-bits for the outfit and took it home with me. The hen kept to the nest as nice as you please, so next day I got my sitting of eggs for which I paid \$1.25, making my total investment \$2. I hatched and raised nine chickens, of which five were pullets.

That fall as we stopped in a town I noticed a rather nice-looking coop being loaded into the express end of the car. It was good enough looking to attract my attention, so I asked about it and was told that it was on its way to the State Fair. After giving the chickens a rather careful "once over," I delivered myself of the wise (?) statement that I had some at home that were "just as *purty* if not *purtier*" and that I did not think mine had "any black around the neck."

As there was to be a poultry show in a town on the road, I thought I would send mine. The party of whom I had bought my eggs gave me the directions for making those nice coops in which he had shown his birds at the State Fair and I made two, in each of which I put a pair of my chickens and loading them into my car, took them to the show.

As my run was a little "hack-line," I persuaded a clerk out of the postoffice in my home town to go with me and take my run the rest of the way and back to the town in which the show was being held. I got off and visited the

show in the meantime. Say, wouldn't you like to see a clerk put one over on the Department like that now? But it went then, and there was never a time when the clerks worked harder nor gave better service. We then knew that we were being treated fairly and gave our best to the work. Well, I went to see my ribbons and a third prize was on one coop and a fourth prize on the other. As they were both on the cockerels I went to see why my pullets did not come in for anything and was told that they were disqualified for "clipped wings." You can easily see how green I was and what would be necessary for me to do. Well, I went to the judge and he kindly consented to score them for me. He said that their scores, 92 and 93½, were good, but that my males were not good enough to keep. He also said that the black which my pullets had around their necks was all right.

To make a long story short, I came away from the show a full-fledged enthusiast. My friend fitted me out with a male and the judge told me that the winner at the State Show had some extra good Reds. I wrote him and secured fifteen eggs at the, to me, enormous price of \$3. From these eggs we hatched fourteen chicks and raised twelve, only three of which were pullets, and one of these I later found out had "stubs" on her legs.

Now, here comes a reason why I *breed* Rose Combs: My wife, whose mother was a successful breeder of Barred Rocks, said that she did not like the Reds because they did not grow fast like the Rocks. To please her, as she had most of the work to do, we drove to the country and bought some good country eggs. These hatched the same day as my good Reds and you may be sure that they had equally as good care. In fact, much of the time they were in the same pen. At three months of age the Reds averaged a trifle over three pounds while the Rocks did but little better than two and a half pounds. They feathered better than the Rocks and looked more marketable, as their feathers did not stand on end, nor did they have great bare places. We then started into the Rose Combs for keeps. I sent to Tuttle and bought some hens to go with my good cockerels, and one of the hens weighed eight pounds. I kept her and my 93½ pullet until they were four years old and they never failed to get

me a blue as long as I had them, and they usually placed first and second. They laid well for me as long as I had them and the country woman to whom I sold them told me next year that they were good layers and fine mothers for her. I wonder how long they did live! They were fine hens!

The next spring we sold over \$60 worth of eggs from ten hens. We got 10 cents per egg and had to replace but two sittings. Another score for the Rose Combs—they lay lots of fertile eggs.

We hatched most too many chickens for our lot, so had to eat a good many of them, and, as they are a fine table fowl, that was a great punishment to us! Say, did you ever meet up with a finer thing than a good yellow-legged, three-pound Red, fried nice and brown and accompanied by good biscuit, gravy, mashed potatoes and well-seasoned cabbage? Not in this vale of tears! As a table fowl, they are par excellence.

That was fourteen years ago. I wish I had space to tell you of some of our successes—yes, and failures, too—with them in the meantime. Suffice to say we have come in for our share of the ribbons where we have shown and have enjoyed the competition. We nearly all get into the show-room sooner or later, and most of us get in soon and stay late. The Rose Combs are fine for this purpose, as they breed fairly true, yet present enough difficulties to make it interesting. Each will have his own problems which he would not want worked out by others. That would take out all the interest. If one knew just how each mating would “nick,” he might as well quit the work and go into the carpenter’s trade.

One great point in favor of breeding Reds is their popularity. It’s of little worth, even if one could breed a bird that would score 100, if there were no competition in the show-room, nor sale for it or its progeny. In choosing a breed it is always well to select one that is popular, for then one may the more easily procure new blood as well as having better opportunities for disposing of surplus stock.

It is to their utility qualities that the Rose Combs owe much of their popularity. Their very origin proves that they have vitality and hardiness. Their ancestors, as is well known, were the game cocks that were able to vanquish all other fighters that started on the long voyage from the Asiatic coast to the New England harbors. No other bird survived.

Again, the thrifty Yankee wanted a profitable fowl, just as he wanted a profitable “nutmeg,” and to him a profitable fowl was one that would lay in the winter. To get that kind of a hen he must have rugged vitality. He, therefore, took up these descendants of the old sea captain’s fight winners and bred them to lay in the winter. Their combs being dense and conforming to their heads did not freeze readily and thus keep them out of condition. And they do lay well in the winter.

Last winter we had eight pullets and they laid on an average of five eggs a day from November until the following May. My wife being called away February 12, 13 and 14, these hens were left in care of our daughter, who insisted that she got twenty-five eggs in the three days. It seemed to me as if one had worked overtime, but as there was no possible reason for any misrepresentation I just accepted the statement.

We put on no frills in caring for our chickens. Much of our feed is just a bin of corn in the husk, to which the hens are permitted to go whenever they please. Last year they had access to a rye patch, but this winter it has been covered with snow too much to be of any considerable value, and we have not tried to sprout any oats. The only green food for them is a few mangel-wurzels and corn fodder. Yes, they eat the blades of the sweet corn that I cut up last fall and seem to get good from them.

We are interested in the “Hogan” system and use it almost as much as we do the Standard in choosing our breeders. We find that a four, five—yes, even a six—inch abdominal capacity is not uncommon. We should never lose sight of the fact that there was but one reason for the origin of the Rose Comb and that was their utility. Take that from them and they will cease to exist. We must watch this part above all others. To keep this, we must have strong vitality. Watch for vitality. This will be best found in those birds whose shape conforms to that of the Standard, and those which have

the “brilliant sheen” on their feathers. Insist that your breeders have these things. A little “smut” on the “under-color” or a little “slate” on the surface will not hurt as badly as the lack of “luster.”

Now, fellow breeders, we have absolutely the best variety of all. Let us talk our variety both in season and out of season. Let us watch that we do nothing to impair the vitality of our flocks, insisting that our flocks be profitable first, and let exhibition follow if we can, and we can, for the Standard was made to permit just that thing. At least, it was made to fit the variety when it was a variety noted for its ruggedness, its hardiness, and its vitality.

Why I Breed R. C. R. I. Reds

Because They Are Beautiful and Second to None in Utilitarian Qualities and Because I Love Them. Second Prize Article. *By Geo. B. Curran, Napanee, Ontario, Canada.*

THIS is a story of progress and success. Five years ago I started in a small way with a pen of Rose Comb Rhode Island Reds, and the first year raised about 100 Red chickens. By careful culling and a system of color mating, I have gradually improved the Rose Comb Reds until today my Reds are the equal in color to any Reds in the world; Single or Rose Comb. But I had better tell my story in detail from the beginning, so that any new breeder of Reds will be able to follow in my footsteps, and be equally successful.

I was attracted to the Reds because of their beautiful rich red color, set off with a black tail. I wanted the best to start with, and first definitely set an amount in my mind that I could afford to pay for a breeding pen of exhibition quality as foundation stock. I wrote to every well-known and reputable breeder in the United States, and told him I wanted a foundation pen mated to produce exhibition stock. I finally settled on a prominent New York State breeder who had won at New York, Rochester and Buffalo. The birds upon arrival proved most satisfactory and well worth the money. I selected the Reds because I firmly believe they possess a greater combination of utility qualities than any other one bird on earth. The Reds are large and possess square, deep bodies, well covered with lots of flesh. A well-developed cockerel at seven months of age, crate-fattened, will dress around 7 to 8 pounds and is more delicious than a turkey. The chicks are very hardy and active, and hustle for themselves from the day they are hatched, and grow rapidly. The Red hens lay extra well in the fall months when eggs are high priced. This is because the Red hens will stand heavy feeding for egg production and shell out the eggs, when under similar conditions the Rocks or Wyandottes would become hog-fat. In my experience, the Red hens have never been persistent setters, and I attribute this to my system of feeding. If a hen does not lay all winter and you start feeding her heavily for eggs in the spring, as the weather gets warmer, she wants to sit, probably after laying a dozen eggs. I feed my Red hens heavily in the fall and up to February 1st, then I begin to reduce their feed and every warm day give them a little epsom salts in their drinking water. As a result, I get eggs all spring to sell for hatching and only have an odd hen want to sit, just enough for my own use.

The Reds are a fairly large breed. They must be hatched early. I find if I get my chicks out in March and April that the pullets will all be matured and laying in September and October, and the cockerels may be selected at the same time, the culls going to the market at the highest price, while the better cockerels are retained for breeding and exhibition birds.

Here is an important point in raising chicks: Do not give any soft food of any kind until the chicks are at least ten days old, and then very sparingly until the chicks are one month to six weeks old. More chicks are killed by sour food than all other causes combined. I feed when twenty-four hours old a little chick scratch food in clover chaff, and the little chicks *scratch for their food*. I give fresh water three times a day. When the chicks are six weeks old, I begin to give them milk mash, a teaspoonful to a chick in the morn-

ing and the same at 4 o'clock in the afternoon. Grain is given first thing in the morning, at noon and at night in *small quantities*. Never fill a little chick up too full, but feed him often and keep him growing. Lots of deep shade and fresh cool water must be provided. I like the corn field best for producing good deep rich Reds, as it is coolest about the time of our hottest weather.

You cannot raise good exhibition Reds if lice or mites get on them. The sleeping coops must be *cleaned out and disinfected every day*. Perhaps the ordinary reader will think this is too often, but try my plan and see what a difference it makes in the matured chickens. Lice will turn a feather white, and red mites will cause wry wings. To get the rich, even, sound and brilliant red color, the birds must be raised in dry, well-ventilated, clean coops, absolutely free from lice or mites, and the air always clean and sweet-smelling. Red chicks must never be crowded so they sweat at night, or they will be ruined as exhibition birds. For this reason I like to get them roosting as early as possible on flat roosts two inches wide. Separate the cockerels and pullets when three months old.

I have a method of mating to produce rich, bright red females with that *soft, rich, red undercolor* that matches the surface, so much desired in Red females and so hard to get. I found out that the average Red breeder was mating only for cockerels, and if he got a good pullet it was an accident. I found out by careful observation that in the average flock of Reds, as bred, the cockerels came dark and uniform and fit for exhibition, *while the females on the average were too light in color, and only a very few females dark enough for exhibition*.

The problem then was to get a type of Red male that mated to these dark exhibition females would reproduce a large percentage of dark red exhibition females. I began to study the question and stumbled on the solution in this way.

Here is my theory: There are two colors combined in a Rhode Island Red—red and black. Practically all Red breeders, in trying to produce better Reds, had been working to produce darker Reds. They had been using black in the form of smut. To breed good show pullets they used males with smut or a few females with smut in each mating. I figured they were wrong. For this reason—it was not a darker red that was wanted, *but a richer, more brilliant red*. In simple words, a redder red.

Here is the solution: Use the reddest males possible, and mate to the clean, bright colored exhibition pullets. I have tested this theory out for three seasons now in succession.

The Rose Comb Rhode Island Reds, as now bred, are equal to any other Standard fowl on earth, and with their rich, brilliant, lustrous coat of red feathers are, in my opinion, the most beautiful fowl on earth.

But not alone are they beautiful. As egg layers they are second to none. Utility is the keynote of any breed. I never keep a pullet for breeding unless she is deep and capacious of body, is covered with lots of flesh, and "Hoganizes" well, so she can lay eggs. Cockerels must be large, strong, healthy, vigorous, active birds, and must also "Hoganize" well, and, in addition, possess a fine quality of scales on legs. This is a sure sign of quality of skin and flesh. By selecting breeders as above, the Rhode Island Reds will be maintained as a superlative exhibition bird which are also *good layers*. But my advice to every breeder of Reds is, whenever possible, to trap-nest the pullets and breed only from the high producers. No breed will last unless utility qualities are kept foremost. The Reds made their reputation as a utility breed. We must strive to maintain these paying qualities.

In conclusion, I breed Rose Comb Rhode Island Reds because I love them. I would not sell one of my prize winners because I value them more highly than money. I regard my prize pullet as a work of art, equally valuable as a painting by a great artist. The painter merely juggles with dead inanimate colors; the poultry breeder juggles with live birds possessing color (red and black) whose proportions he cannot change. He must select two individuals and mix (mate) them so that the resultant combination of colors will combine to give the rich brilliant, yet soft, shade of red sought for in the ideal exhibition bird. I regard the poultry breeder as the greater magician of the two.

Why R. C. Reds? Farmer's View

First-Class Fowls for the Farm. Special Mating and Trapnesting Pays. Third Prize Article. *By Carl E. Scott, Moundridge, Kansas.*

BEING born and raised on a farm, I cannot remember the time I was not a lover of fine poultry and live stock in general. When a small boy I had charge of the farm flock, and ever since it has been a pleasure for me to work with poultry.

My ideal for a farm hen has always been one that possesses vigor, is a good layer in the winter and early spring months, and has size enough to make a good meal for an average sized family. She can stop laying in the hot summer months, if she so desires, but I want her to produce eggs when they are eggs.

I want her to be gentle and a good mother. Also, I want her to be beautiful to look at.

Having handled and owned many of the medium sized and larger breeds of chickens before becoming acquainted with the Reds, my choice for a number of years was one of the Asiatic breeds. They were hardy, fairly good winter layers, also a good table fowl. I was satisfied with them until a friend sent me a setting of Rose Comb Rhode Island Red eggs. I hatched a number and raised to maturity five pullets and three cockerels. One could not help but notice the vigor and thrift of those Reds, the way they rustled around from early morning until dark, and how they did grow.

I liked them so well, the next spring I purchased a cockerel to mate with the few pullets I had raised, giving them a pen to themselves. They surely did give a good account of themselves that spring, in filling the egg basket. I was beginning to think a great deal of the Reds by this time.

After my first start I began building up my flock as to their laying qualities, also according to the requirements of the Standard. I was now a "chicken crank" right.

I purchased all the literature pertaining to Reds that I could get hold of, studied them at all spare times, subscribed for the Rhode Island Red Journal, AMERICAN POULTRY JOURNAL, and a few other poultry magazines.

By studying these publications I learned many things that I didn't know before. Among other things, I learned there were different persons breeding Reds for certain characteristics, such as one specializing on shape, another in color, another on egg production, and so on. Now, I wondered why one person couldn't raise Reds combining all these qualities. I at once purchased a pen of birds from a breeder who had a nation-wide reputation for raising good shaped Reds. Later, purchasing some from an excellent color strain. By carefully mingling the blood of these two with my already good laying strain, I laid the foundation upon which I have built a flock of useful, beautiful, Standardbred Reds.

Being a farmer, I raise all my own grain and feed liberally of wheat, corn, and oats. Am careful at all times not to feed damaged or mouldy feed.

Each December I mate from three to five special matings, using one male and never more than ten females in one mating. These I house in open-front colony houses, supplying a large run for each mating, this run being seeded to either wheat, rye or oats to supply green food. I am also careful to supply plenty of shade thru the hot weather.

Another point in favor of the Reds is the fence enclosing their yards is only four feet in height—plenty high for a Red.

These special breeding hens are always the best of the flock, being chosen as to size, vigor, color and shape, valuing each quality as in turn mentioned. My breeding hens are all trap-nested; each hen is given a number, this number being placed on the egg when gathered. This is done for several reasons. One is to pick the good layers; another is, by marking the chicks hatched from these eggs and knowing their ancestors enables one to mate intelligently the next year. Trap-nesting, also, enables one to cull out the layers of small, over-large or ill-shaped eggs. Again, there is now and then a hen that lays infertile eggs. Thru this method she is easily detected.

(Continued on Page 353)

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

SUBSCRIPTION PRICES.

United States, Cuba, Mexico and United States Possessions (except Chicago).....	1 Year 12 issues	3 Years 36 issues
Canada	\$0.60	\$1.00
Foreign .....	.85	1.75
Chicago	1.10	2.50
	.75	1.50

Chicago, Canadian and Foreign subscriptions require additional postage and therefore the slight difference in prices.

TRIAL SUBSCRIPTIONS—In order to acquaint prospective subscribers with American Poultry Journal, we will mail one copy a month for six consecutive months to any point in the United States, its possessions or to Cuba or Mexico for 25c. The trial subscription offer (6 months for 25c) is for new subscribers only and not subject to renewal for a period of less than one or three years.

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TRADE MARK REGISTERED,
No. 74,059.

Issued the first of each month.

Published by

**American Poultry Journal
Publishing Co.**

JAS. W. BELL, President,
542 So. Dearborn St., Chicago, Ill.

Editors.

JAMES W. BELL,
PRINCE T. WOODS.

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Advertising Representative,
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60,000 American Poultry Journals for
March, 1918.

State of Illinois, County of Cook, ss.:
Chas. S. Peterson, secretary of the Regan Printing House, Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 60,000 copies of the March, 1918, issue.

CHAS. S. PETERSON.

Subscribed and sworn to before me this
22nd day of February, 1918.

(SEAL) ALICE A. SHEHAN
Notary Public.

Stabbing at the Heart of the Nation

The War Revenue Bill passed by Congress in October, 1917, carried with it as a "rider" a clause compelling magazines and newspapers to be mailed on the "Zone System." This means that the postage gets bigger and bigger the farther away you live from the place where the magazines and newspapers are published. This law will be put into effect on July 1, 1918, unless Congress repeals it in the meantime. You should write at once to your Congressman and Senator and demand the repeal of this most unjust law, which increases the postage on periodicals from 50 to 900 per cent. Do not delay. Write today.

The law is class legislation of the most unjust sort. It was not needed. It is most unfair. Publishers pay all taxes imposed by the War Revenue Bill and in addition they alone have had the transportation on their product increased from 50 to 900 per cent. It means the ruin of many periodicals. It means restricted circulation for all magazines and newspapers. It attacks the whole mechanism of merchandising thru advertising and means ruin for the many who do a large mail-order business. It will eventually greatly reduce the revenue of the Post Office Department itself. It is wholly unnecessary.

The Post Office Department is operated for the benefit of the people—it is intended to serve all the people and was never meant to be a business run for profit. Yet, the Post Office Department, on October 26, turned over to the U. S. Treasury \$9,000,000. This is the largest profit ever made in any one year of its history. These big profits came out of the pockets of the people who created the department to give service to the people at cost. The nine

million dollars profit was made in spite of the claim that \$50,000,000 was lost on Rural Free Delivery, and in spite of the fact that newspapers and periodicals were carried at the established second-class rates. No one has yet been able to show figures to prove that the Post Office Department loses money in handling real second-class matter like newspapers and magazines. The second-class postal rates on newspapers and magazines have been 1c a pound since 1879. These rates were originally adopted to benefit the public and have been maintained to benefit the public. They should continue. Canada, with the same great distances to ship mail matter and with less population to support its postal system, has a postal rate for newspapers and magazines of only one-half a cent per pound, just half our rate, and she has been at war since 1914.

The publishers have no desire to dodge legitimate war taxation, but, in face of the greatly increased cost of publication, they do protest against unjust discrimination which places them in a position where either they must be forced out of business or must demand a much increased subscription price, which in effect will put many out of business and greatly limit the circulation of others. In all sincerity the publishers actually offered the Government every cent of profit made during the war rather than have the Zone System of increased postage forced upon them—for the Zone System postal increase means a great hardship to the reading public, to the manufacturers, merchants, live stock and poultry breeders, as well as for the publishers. Everyone is glad to do his bit to help win the war and no one will dodge just taxation. But it is not going to help win the war to put the publishing houses out of business. It will not help win the war, or to "make the world safe for democracy," to deprive the great mass



of our people, who live in the country or remote from big publishing centers, of good, clean, educational publications. To put this Zone System law into effect is postal persecution of the worst sort. It is stabbing at the very heart of the Nation. It tends to kill democracy and to dissolve the Union. By restricting the circulation of the many clean and wholesome magazines to limited zones it takes away from the great majority of American homes publications which are great educators. It will confine the circulation to a few well-to-do readers who can afford the greatly increased costs. It will tend to create sectionalism among our people by preventing the free exchange of ideas and experiences among all citizens of the United States. Sectionalism is easily developed and not readily done away with. We cannot afford the risks involved. Good, clean, wholesome newspapers and magazines are not only great educators but they are nation-binders, they tend to keep us one people and united. The immortal Lincoln was willing to sacrifice all other issues in order to save the Union. Do we want to tear down, or do we wish to build up?

Prof. J. W. Linn, of the University of Chicago, said to Congress:

"You say these newspapers and magazines would not be destroyed by these proposed new laws? You know what would happen—you know that the prices to subscribers would rise, and circulation would narrow—and just who would lose out?"

"Why, just exactly the people who must have the reading habit if this is going to be a democratic nation—the small town and country people. These publications are printed in big cities; the first zone, the cheapest zone, would be in and near those cities. That means you have shut off education just where it is needed. The cities will read anyway; there are many educational opportunities in the cities anyway; but the small towns and the rural districts depend to a large extent on newspapers and magazines.

"You shut out those boys and girls, those men and women, from the reading habit.

"You shut them out from the freest possible circulation of ideas, just at the time when that freest possible circulation is most essential.

"I say as a college teacher, a man who has been in the educational profession almost a generation, that in my judgment you could hardly stab nearer the heart of the Nation than by stabbing at the country circulation of newspapers and magazines.

"Yet that is exactly where this increase in second-class postal rates, this Zone System, is directing the knife!

"You shut off the farm journals, as these proposed zone rates would shut them off, and you decrease the productive power of this country by millions of dollars.

"You shut off the trade journals, and you decrease the manufacturing power of this country by many more millions."

Friend Reader, you have been good enough to tell us many times how our poultry magazine has helped you, how it has enabled you to make a success of your individual share in the great "billion dollar poultry business" of America. Will you now help us, and at the same time help to avoid bringing upon yourself greatly increased cost for the continuance of your magazine, by writing at once to your Congressman and Senator, asking them to repeal this unjust law which compels Zone System postage increase on magazines and newspapers? Act now. Write today.

Who Will Pay the Bills?

By the time this issue reaches our readers it is quite probable that a maximum price may have been fixed upon poultry and poultry products. It is also likely that measures will be taken to prevent the

sale of fattened hens until after the first of May. An effort is to be made to "have prices so adjusted that they may not rise above a reasonable maximum." Consumers are asked to refrain from buying hens during the period between the first of February and the first of May.

This action by the Food Administration is bound to make the practical poultryman sit up and take notice—he will ask "Who will pay the bills?" The natural tendency of this course of action will be to smash prices on both poultry and eggs, and to make it possible to fill up cold storage warehouses with poultry and eggs at the expense of the already heavily burdened producer. It seems to be the theory of the officials that interference with marketing and distribution, price regulation, and lessening the market prices, can have no other effect on producers than to stimulate greatly increased production "as a patriotic duty." Perhaps it might work, if we could only pay grain bills and bank loans with drafts on our patriotism. Unfortunately only good hard cash is accepted by the grain dealers and the banks—also no one has yet suggested that patriotism will be legal tender for payment of taxes.

For a good many years it has been our practice to depend, for a considerable amount of our return from our poultry plant, on the sale of fat old hens for the Jewish holidays. We force these hens for eggs thru the summer, fall and winter, pushing them to the limit while eggs are at top prices. By March they are hog fat and about ready to stop laying and get broody. At the time we sell them they are in a condition of internal fatness that makes it exceedingly unlikely that they could again be brought to laying within sixty days, and probably they are so overfat they would go to pieces and become a loss if held over. The March price is invariably double that of price obtainable after the first of May. So aside from the possible loss of the hens, the loss from non-laying, the loss from continued feeding, there is also a very considerable money loss from price shrinkage amounting often to 50 percent. If this loss is to be forced upon poultrymen, who is to pay the bills?

As is our usual custom, we have been fattening quite a good sized flock of old hens for the Jewish Passover sales, and this year expected to sell them about the third week in March at from 32 to 35 cents a pound alive, possibly at even a little better price if the market is good and lively. These hens have been laying since last summer and are now (February 11) pretty close to the end of their string as layers. They will lay just about enough eggs during the finishing period to pay for a part of their feed, and will be practically all thru laying when selling time arrives. They will be too fat to be fit to hold over into warm weather. If the Government does as it now plans to do, and discourages the sale of live hens and urges buyers to refrain from buying until after the first of May, it means the loss of several hundred dollars on our poultry farm alone. There are many other poultry keepers in the same boat. If our production and products are to be interfered with in this way, we cannot increase production and we may be forced to stop producing altogether. We have been counting on this sale of fat hens to Jewish trade to help us make good on a part of our losses of the 1917 season. The live poultry price after May 1 is likely to be about 16 cents a pound. Where do we get off?

On January 26, the live poultry dealers of New York sent a letter to the Food Administration urging that there be no Government interference with the normal sale of live fowls this spring. The letter was signed by practically the entire live poultry commission trade of New York. It presented the facts concerning the matter forcefully and fairly. In part this letter stated:

"We believe that such a prohibition, if enforced, would defeat the end in view. It might, indeed, to a very limited degree increase the supply of eggs available for cold storage, but, on the other hand, it would deprive large numbers of the population of the larger cities in the country, and more particularly of New York City, of their main supply of flesh food, and would compel them to turn to beef and veal to satisfy their absolute wants.

"We have in the metropolitan district of New York City a Jewish population of more than 1,500,000. About 95 percent of all the live poultry received in New York is consumed by them. If they are deprived of it, they will need an increased weekly supply of about 1,500,000 lbs. of beef and veal more than they now consume. It is an accepted fact that the Jews of New York use very little mutton, and a further fact that practically no Kosher-killed mutton or lamb is offered for sale on this market.

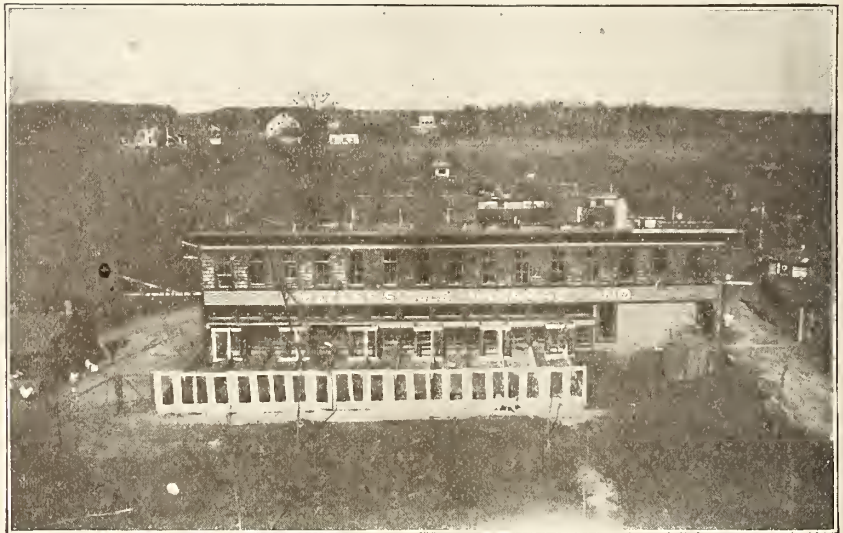
"By the Jewish ritual, all meat must be Kosher-killed, and must be fresh when sold. Fifty-two percent of the carcass, only, is Kosher; and only about 42 percent, or four-fifths of the Kosher end of the carcass, consisting of the chucks and plates, is used by the Jews. The other one-fifth, consisting of the Kosher rib, is usually sold to Christian trade. Thus, if it would require 1,500,000 lbs. weekly of beef and veal to replace the poultry now consumed, it would require a weekly increased output of beef and veal of about 3,000,000 lbs., if the full 52 percent of Kosher meat is considered; and if only 42 percent, the actual amount of Kosher meat consumed, as above noted, is considered, it would require an additional supply of live cattle necessary to produce 3,500,000 to 3,550,000 lbs. net of dressed beef and veal.

"An increased demand of this character,

which would be imperative, would not only operate to greatly deplete the reserve supply of live stock, including calves, thruout the country, but would surely defeat the purpose of the Meatless or Beefless Days now in practice under the ruling of your honorable body.

"The Jewish Passover, which occurs during the full flush of the egg-producing season, is always celebrated with the aid of live poultry exclusively. This fact is merely mentioned for

especially is this true of laying hens, and in view of the very high prices for eggs likely to prevail this spring, this movement will no doubt be even more restricted, and, as is usually the case, farmers will sell their laying hens only to a very limited extent, and very sparingly, and even if tempted with very high prices will cull their flocks carefully and sell only those from which they are not getting satisfactory results. This condition always



Conditioning House and Incubator Cellar on the White Wyandotte farm of Chas. V. Keeler, R. F. D. 11, Winamac, Ind.

your consideration, and while it may not be in the line of food conservation to so consider it, a great hardship would certainly apply if the proposition to cut off the supply of live fowls was made effective.

"With regard to the actual situation, and the usual movement of live fowls during the egg-producing season, we would remind your honorable commission that it is always restricted;

applies during the egg season, and we believe will be greatly emphasized this year.

"We believe that viewed from the standpoint of food conservation, no special restriction should be placed on the sale of live fowls; that to do so would greatly complicate the situation, and would destroy the balance which now exists and which is operating to conserve the supply of beef and veal. We do believe,



WE WIN

AGAIN!

AT CLEVELAND, OHIO, 1918, "HILLVIEW" S. C. W. LEGHORNS won 3 "BLUES" in the hands of one customer. Here is the letter:

"Hurrah for you and Hillview — won 1st cockerel, 1st cock, 1st pullet and 3d hen at Cleveland. We certainly put one over on the bunch here, and thank you from the bottom of our hearts for the splendid specimens you sent us."

YOU CAN DO THE SAME in your city if you get "Hillview" White Leghorns — the pleasure derived out of winning the "blue" over your fellow townsman will be yours. I furnish more winners annually than any other farm for the largest shows in the United States and Canada. I can furnish YOU with blue-ribbon winners!

AND, my Leghorns are **REAL WINTER LAYERS**. They prove it by winning **Three Years in Succession** at the Missouri Laying Contest, because they have this year — in the present contest (the fourth year) made the best record for December, and are again **LEADING** all Leghorns in this contest. In the American Contest my pen also made the best December record, and laid double the number of eggs laid by any other Leghorn pen entered. My birds **LAY IN WINTER!**

My beautifully illustrated catalog, just off the press, tells you completely all about my Leghorns. My mating list is ready and will be enclosed with the catalog. Don't hesitate; write today; just send a post card and in return get an introduction to **America's Finest White Leghorns**. See last month's ad. for description of matings.

Eggs — Chix — Eggs — Chix — Eggs — Chix

HILLVIEW FARM

Box 27 - LINCOLN, MISSOURI
C. J. LABAHN, Owner TOM COCHRAN, Mgr.



Mating Time Is Here

Now's the time to put your hens and roosters in the pink of condition with Poultry Pan-a-ce-a.

If you want chicks that will live and develop rapidly—if you want early broilers—if you want pullets that will develop into early winter layers, then feed the parent stock Dr. Hess Poultry Pan-a-ce-a.

Remember, it's the singing, scratching, industrious hen that lays the healthy, fertile eggs that will hatch into strong, livable chicks.



Makes Poultry Healthy—Makes Hens Lay

Here are a few of the valuable ingredients in Pan-a-ce-a to meet the requirements of your poultry which I have just stated: *Nux Vomica*, a nerve tonic; *Carbonate of Lime*, a shell former; *Hyposulphite of Soda*, an internal antiseptic; *Quassia*, an appetizer; *Iron*, to enrich the blood, and other valuable ingredients, all well known and recommended by the highest medical and veterinary authorities.

There's a dealer in your town that will supply you with Dr. Hess Poultry Pan-a-ce-a and it's to make your poultry healthy—it's to make your hens lay—it's to make your chicks grow—if it doesn't do these things, he will return every cent you have paid him. Packages, 25c, 60c and \$1.25. 25-lb. pail, \$2.50; 100-lb. drum, \$9.00. Except in the far West and Canada.

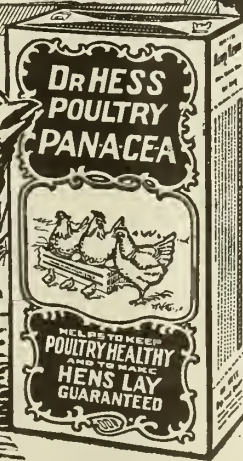
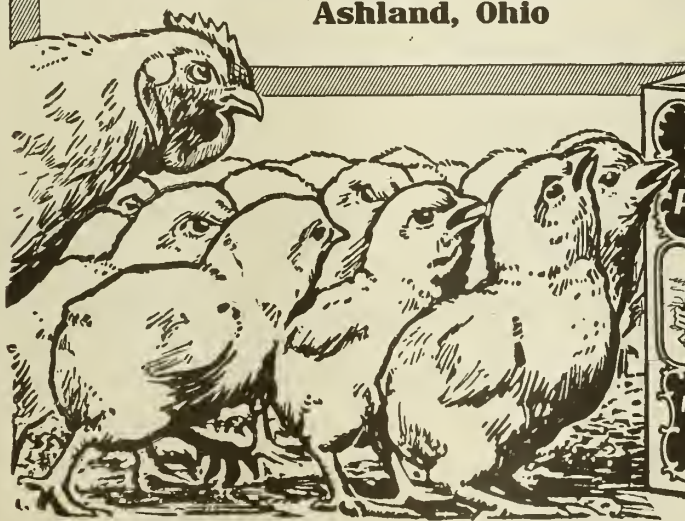
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however, that every effort should be made to induce an increased production of poultry by a nationwide movement for an increased hatch."

The reply received by the live poultry dealers is not a pleasant one for producers to read. Apparently it does not matter where the producer gets off, if there is any possible way to smash prices so that poultry packers' storage warehouses can be filled up, after May 1, at low cost. Here is the reply:

Washington, February 2, 1918.

Gentlemen—We have your communication of January 26th, 1918, regarding the live poultry situation, in which you outline reasons why there should be no interference by the Food Administration with the market of fowl by

farmers, and their consumption, for the next two months.

One of the duties of the Food Administration is to prevent and eliminate, as far as possible, any wasteful practices.

To us the killing of hens just before and during the heavy spring lay is a wasteful practice—just as wasteful as the killing of fresh milk cows for beef; and we are appealing to the farmers from a patriotic standpoint not to sell these hens while laying freely.

Every hen which is sold before the first of May represents a food loss to the Nation of about thirty eggs. The total loss of eggs represented by the customary selling of hens between the first of February and the first of May, amounts to about 150,000,000 eggs. In order to save this much needed food, the Department of Agriculture is now opening a campaign, urging farmers to refrain from selling hens from the first of February to the first

of May, and buyers from buying hens during that time.

The Food Administration believes that this is a highly desirable move on the part of the Department of Agriculture, and will use all the facilities at its command to obtain this most desirable end.

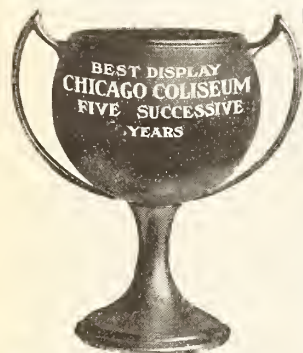
We intend to ask the consumers to reduce their consumption, during this period, for the same reason that we ask the farmer not to sell them—that is as a patriotic duty.

The other question is one of distribution. It is a fixed principle with the Food Administration that, taking the Nation as a whole, prices should be kept within reason, so that the middle classes may purchase food stuffs as well as the wealthy. This cannot be possible under these abnormal conditions without some restriction.

We feel that the present limitation of trade activity is for the general benefit and that our attitude is fundamentally right. We are, therefore, asking you dealers—also from a patriotic standpoint—to co-operate with us in every way possible to bring about this result.

We wish also to have prices adjusted so that they may not rise above a reasonable maximum, and we ask your advice and co-operation in making this adjustment. An adjustment will also be made on frozen and dressed poultry prices.

United States Food Administration,
By W. F. Priel



BEST DISPLAY AT THE CHICAGO COLISEUM SHOW, on

Rose Comb Reds

has been won for

Five Successive Years by Longfield REDS

A record, to the best of our knowledge, never duplicated by any R. C. Red breeder at any National Show. Twenty of the first premiums at this great Red show in the past seven years have been won by us. Another record.

LONGFIELD REDS, the strain that comes back and wins year after year where the competition is strongest. Write for catalog, giving winnings in detail and our interesting guarantee of 15 chicks from each setting of our best eggs. A grand lot of birds for sale. Priced very reasonable.

Longfield Poultry Farm, Box 321 Bluffton, Ind.

White Leghorn Chicks

RESULTS

Grewe's White Leghorns hit the bullseye of Results—the dollar mark. Average egg production last year 75%—How's that? Pullets laid at 4 1/2 months. The only kind worth having are those that lay a profitable number of eggs. That's the kind we sell.

GREWE'S WHITE LEGHORNS

TOM BARRON STRAIN

Send for handsome catalog for full information



Chicks from Pen 1, cocks from 252 egg hens, pullets high record stock, each.....25c
Chicks from Pen 2, two year old hen, averaged 75% last year, each.....22c
Chicks from Pen 3, pullets and cockerels, high record blood, each.....20c

WHITE FEATHER EGG FARM A. H. Grewe, Prop. DES PLAINES, ILL.

First Display, Chicago 29 Birds Shown 29 Birds WON



With 29 White Orpingtons at Chicago Coliseum, Dec. 3-8, at the American White Orpington Club Show, Woolery Farm won the most coveted prize—Best Display. 29 birds shown and 29 birds winning is our proof of uniformity in Woolery Farm STRAIN. No other breeder has equaled such a record as this. For ten years we have line bred for Standard Quality—Stay White Color and 200-egg record hens. TODAY we offer YOU an established STRAIN that will reproduce uniformly

THE BEST WHITE ORPINGTONS

They lay and win because they are BRED to do it. Send to us for Cock, Hen, Cockerel, Pullet or Pen for breeding or any show. We have the birds at prices that will please you. Eggs to hatch your next season's winners now ready for delivery from the best White Orpington pens ever mated. Catalog-mating list free.

WOOLERY FARM Box A BLOOMINGTON, INDIANA

Reader, as a matter of self preservation, you must plan during the coming 1918 season to help feed yourself and your family—to actually produce a part of the food you consume and, if possible, to produce a surplus to supply those who are less fortunate than you are.

You can "do your bit" by raising more poultry and by having a good, substantial, well-planned home garden. Make the back-lot, and even the lawn, productive. If you would eat, and you must eat, you will have to help produce food.

Two million organized farmers, of the United States, in an appeal to President Wilson, stated that the chief causes which will inevitably bring about a smaller crop in 1918 are six in number, viz.:

1. The shortage of farm labor.
2. The shortage of seed.
3. Prices often below the cost of production.
4. Lack of reasonable credit.
5. Exclusion of the farmer from his



Fashion Plate Buffs

Eggs Eggs Eggs

We have the finest lot of birds mated that we ever owned—this means much to you.

\$15 eggs for \$10, \$10 eggs for \$5, \$5 eggs for \$3 per setting of 15 Incubator lots of 50 from well mated yards \$8, lots of 100 \$15

Order direct from from this ad. Catalog Free. 70 well finished cockerels of excellent quality, \$10, \$15, \$20 and \$25 each. Plenty of hens and pullets. Let us supply you.

A. E. MARTZ Buff Orpington Specialist and Judge Box A, ARCADIA, IND.

right and necessary share in the conduct of the war.

6. *Deep-seated doubt as to whether he can raise the increased crops demanded of him and still support his family and pay his debts.*

When two million food producers find it necessary to make an appeal to the Nation, asking for simple justice and a square deal so that they may perform their most necessary task, and when the majority of unorganized food producers feel the same way about it, it will be a wise thing for the food consuming public to sit up and take notice. We have all clamored loudly about high prices and the high cost of living, but we have not yet really experienced war prices for foodstuffs. The attempted fixing of maximum prices on foods, to keep down the cost to the consumer, has resulted in an awful muddle which is likely to prove a national calamity. Which do you prefer, low prices, increasing "eat-less days," and no food? or an increased production of food—ample supplies of food at somewhat higher prices, which permit a fair and just living profit for producers?

A prominent Congressman writes us: "I note all you say relative to the administration of affairs relative to food production and regulation of prices. The problems are not, in my opinion, being adjusted satisfactorily, for several reasons, among them being a desire to turn over to men unacquainted with the vital issues, authority which they are unable to exercise intelligently. The case you cite is typical." (We mentioned the case of one of the "Dollar a Year Men" who seems to be muddling the poultry situation in a most unfortunate way.) "The Food Administration is not, in my opinion, as yet, solving the difficulties, which were foreseen, and while the American people are ready to make every sacrifice for the soldiers and sailors whom we are sending across the seas, the people have a right to demand that the best brains of the nation be called to service to handle domestic problems, in order that our Army and our Navy may be properly fed, clothed and equipped, and also to the end that those who remain at home, the farmers, merchants and others may not suffer unduly by inefficiency and lack of foresight."

The *New England Homestead* points out that 85 percent of the farmers cannot increase production this year unless something is done at once to remedy the situation, and that 45 percent will be obliged to produce less than in 1917. It says editorially:

"The stumbling block to an adequate food supply for domestic consumption, as well as



45% in November

One of our pens led first 4 weeks of the N.A. Contest (Delaware official) with 45% production against 13% average for the 100 pens. We breed hens for egg-type as dairymen breed cows for milk. Our S. C. White

LEGHORNS

are true egg machines. Pen "A" headed by son of 314-egg hen; Pen "B" by grandsons. Hatching eggs LEGHORNS or REBS—Pen A, hens 250 to 280 egg-type, \$5 for 15, \$25 for 100. Pen B, hens 200 to 250 egg-type, \$3 for 15; \$15 for 100. Pen C, hens 150 to 200-egg-type, \$10 for 100. The best is the cheapest.

Catalog

HOPEWELL FARMS

Box 161-J, HOPEWELL, N. J.



Smith's White Leghorns

ELEVEN of the winners in the single classes and four of the winning pens at the *Chicago Coliseum Show, December, 1917*, including three firsts and two seconds, were either furnished by me direct or hatched from eggs I furnished customers. This, together with my win of all six firsts, best display and best cockerel in the show (all varieties competing) at *St. Louis, January, 1918*; and my win of four firsts, best display and grand champion male (all varieties competing) at *Greater Chicago Show, January, 1917*, should convince you of the real quality of my strain. My matings for 1918 are even better than last year, and they will produce winners for you! New catalog sent free upon request. Eugene Smith, 317 Galena Blvd., Aurora, Ill.



A 1917 "Lady Beautiful" Pullet.

Myers' Barred Plymouth Rocks

Lady Beautiful Strain

Let me mate you a pen for next Season's breeding. Making the selection from the choicest flock of birds I have ever yet produced.

Single Birds, Pens, Trios or Breeding Pens

Eggs for Hatching. No Baby Chicks.

Write for Catalog and Mating List

C. N. MYERS Box A, Hanover, Pa.

PAPE'S SINGLE COMB BLACK MINORCAS

are acknowledged everywhere as prolific producers of large white eggs, a most delicious table fowl, and their winning record for 25 consecutive years is without a parallel. Our Eggs that will hatch, Chix that will thrive, cockerels that will improve any flock, layers, and carefully mated pens at popular prices offer the foundation for a profitable business and the possibility of producing next season's Championship Prize Winners. Stock is sold on approval—safe arrival and a good hatch is guaranteed. Mating list is free—please state requirements.



We hold our own in any competition

Charles G. Pape, Box B74, Ft. Wayne, Ind.

Manufacturers agent for the best there is in Incubators, Hovers, Crates, and Egg Boxes

Ship Eggs and Day Old Chicks

15 Size Rippley Perfect Egg Box



Size	Price
15 Eggs—	\$1.75 Per Dozen
30 Eggs—	\$2.75 Per Dozen
50 Eggs—	\$3.50 Per Dozen

in Rippley Improved Boxes. Strong corrugated cardboard, will stand the weight of 5 men. CHICK BOXES—Strongest and Best. Indirect ventilating, no heat or cold, non-crowding. Ship safely any distance. Satisfaction guaranteed or money returned. Order from this advertisement. Sold in 1 doz. packages only. Sample 15 egg, or 25 size chick, 40c postpaid. Full line of poultry supplies at lowest prices. Send now for FREE BOOK.

RIPPLEY MFG. CO., Box A1, Grafton, Ill., U. S. A.

Rippley's Perfect Indirect Ventilating and Non-crowding Chick Box
100 Size—\$5.00 Per Dozen
50 Size—\$4.00 Per Dozen
25 Size—\$2.50 Dozen



CARBO STEEL POSTS UNIT SYSTEM



STRONG LIGHT, SPRING STEEL

cheapest, most durable, SYSTEM sanitary poultry fences.

Bolt together for rigid corner, gate or end posts. Use units singly for line posts or Carbo Drive Posts. First cost of post less than wood. Made any height. Write for Booklet Today.

CARBO STEEL POST CO. Department 0 CHICAGO HEIGHTS, ILL.

support of our own and allied soldiers, is the too evident intention of keeping prices down to producers and leaving them in doubt as to exactly what is to be done. If there were more inducement to raise crops and stock than there is to make candy, to run a retail or wholesale store, to make munitions or ships, or to do a dozen and one other things, there is not a shadow of a doubt but what many more people would become producers of food, and the thousands of farmers already in the game would manage to speed up production. Anyone, be he producer, consumer, or middleman, must agree to this upon thought and exercise of common horse sense. * * * * * City folks more than farmers have cause to worry.

"The Good Book asks, 'What it profiteth a man to gain the whole world but lose his own soul?' Paraphrased to fit the food situation, primarily from the consumer's standpoint, 'What will it profiteth the consumer to gain low prices but lose his food supply?' Again, 'What will it profiteth our authorities to gain the passing approval of consumers and lose the war?'"

Are we too dull to realize our peril? Are we too blind, dreaming of the hoped for revolution in the enemy nation, to be able to see the dangers of famine and class dissensions resulting from disorganizing and discouraging our produc-

tive industries? Will we be able to break up our fixed ideas and theories in time to face really serious and vital facts and adapt ourselves to new world conditions before they destroy us? Just now we seem to be sitting on the edge of a grumbling volcano, rolling irritating objects into the crater. It will be our own fault if an eruption overcomes us.

This is no alarmist view, nor false alarm, the danger is real and very grave. Do not say "It does not concern me, I'm fixed all right." It does concern you, it concerns every one of us. It is time now to wake up. Time to do something to convince producers that we mean to give them a square deal. No manufacturing concern would increase production under present conditions except to fill contracts that will pay a fair and just profit. We must speed up production. Individuals, who do not produce foods, can help by contracting in advance, at fair prices, with producers to grow supplies for them. Those who can should pro-

duce foods to help feed themselves.

"Food will win the war," no doubt of that, but the way to make it win the war does not end with using the phrase in cancelling postage on our letters. We must apply some real sound horse sense to the food problem. Individual efforts at back-lot production are good and desirable as a means of helping in self-preservation, but such measures are only a drop in the bucket. The great bulk of the food needed to win the war must come from small farms and poultry plants all over this big country. The only way to obtain increased production from these farms is to make it possible for the food producer to make a fair and just profit. That will mean "war prices" until supply catches up with demand, but it will prevent famine. We simply must remove the "deep-seated doubt" of the food producer, "as to whether he can raise the increased crops demanded of him and still support his family and pay his debts."

Remember the coal famine! Real food shortage would be infinitely worse.

Incubators Are "Farm Machinery."

WHAT an awful muddle things are getting into nowadays, just when we need the greatest possible efficiency. It really seems as if we had among our "Dollar

S. C. White Leghorns

600 Yearlings and Pullets for sale. \$18.00 per dozen in lots of 25 or more. We are now booking orders for hatching eggs and day old chicks. Place your orders early.

Meadow Lark Farm - - - Box 3, Route 3, Elgin, Illinois

REGAL MATINGS FOR 1918



First Prize Cock at Madison Square Garden, December, 1916

prize cockerel at Boston this winter and the second Chicago cockerel. At the National White Wyandotte Club Show at Detroit last winter no less than eleven out of eighteen firsts, seconds and thirds were won by customers. What does all this mean from a customer's standpoint? It means that I am sending out freely of the very best blood I own. How many breeders are sending out eggs that will hatch New York and Boston winners?

If you are not getting good results in fertility or egg production; if your birds are just good enough for the seconds and thirds, while your competitor wins the "blues," why not come to headquarters and start all over again with the pure Regal strain? My customers are winning and I have the records to prove it. Read the following letter from Mr. McCubbin, of California, which is only one of hundreds:

Los Angeles, Cal., February 8, 1918.

"Am mailing you catalog of Los Angeles Show this winter. You will see that the Regals are on top. My winnings were first and second cockerels; first, second and third pullets; second cock; first pen and four silver cups on champion male, champion female, champion pen and best display. Have marked Regal winnings of your other customers, which were first cock, second hen, fourth pullet and fifth cockerel. My first and second pullets were sired by Regal champion and my third pullet by Madison. First cockerel won four blue ribbons under three different judges during the season. Please send mating list for 1918. I remain

Yours very truly,
W. O. McCUBBIN."

EGGS FOR HATCHING

Exhibition or Dorcas Matings, \$5 per 15; \$15 per 50; \$27 per 100.

Special Matings (Exhibition or Dorcas), \$10 per 15; \$18 per 30; \$25 per 45; \$50 per 100.

Utility Matings of vigorous heavy laying stock on free range, \$6.50 per 50; \$12 per 100; \$55 per 500; \$100 per 1,000.

For the season of 1918 my forty-five Exhibition and Dorcas Matings are the finest ever offered and represent the result of my years of careful breeding. My Exhibition Pens are headed by winning males at the New York State Fair, Boston and Hagerstown and contain all my winning females. My Dorcas Matings are headed by males bred from high record females and are mated to females with records ranging from 175 to 255 and pullets of the same breeding. Hundreds of my customers were winners in the shows this past season. The Regal strain has reproduced its quality and established more successful breeders than any other strain in existence. But this is not all; for years the Regals have been bred for heavy egg production and stamina and it is generally conceded that no strain has a better record for usefulness. In spite of the very severe winter my brooder house is nearly full of fine sturdy little chicks, proving that the breeding birds are in the best of health. Upon my show records and the utility qualities of my birds I base my claim that

Regal White Wyandottes Are the Best in the World

Moreover, I positively guarantee to send out eggs from my best birds. I have records in my possession that would be most convincing if I were permitted to use them. One case I can mention is that of the first prize cock Madison Square Garden, 1916. This magnificent bird was hatched out of a setting of eggs I sold. Two other notable winners were the second of a setting of eggs I sold. Two other notable winners were the second of a setting of eggs I sold. Two other notable winners were the second of a setting of eggs I sold.

1000 — COCKERELS, HENS AND PULLETS FOR SALE — 1000
Special Value Male and 4 Females, \$25, \$35 and \$50. Exhibition or Dorcas Cockerels, \$10, \$15, \$20 and \$25.

Choice Hens and Pullets, \$4, \$5, \$8 and \$10. Stay-White Utility Cockerels, \$4 and \$5 each.

FREE—Send for 1918 Catalog and Mating List. It gives full description of all my matings, also complete price list on stock and eggs.

JOHN S. MARTIN

Box 51

PORT DOVER, ONT., CAN.

a Year Men," who have volunteered to serve Uncle Sam and — perhaps — their own interests at the same time, too many men who are unacquainted with the vital issues and clothed with authority which they are unable to exercise intelligently.

If incubators and brooders are not "farm machinery" essential to spring farm work, what are they? Certainly they cannot be classed as non-essential furniture. We consider that incubators and brooders are most assuredly "farm machinery" and most decidedly essential in spring work.

The Fuel Administration evidently considers that incubators and brooders are essential farm machinery. Dr. Garfield notified the Baby Chick Association that the fuel authorities would arrange to have coal supplied promptly to local dealers, when notified that the coal was needed for use in incubators and brooders for the purpose of hatching and raising more chickens. All the Fuel Administration asked was to be promptly notified of the need in order to be able to speed up delivery in time.

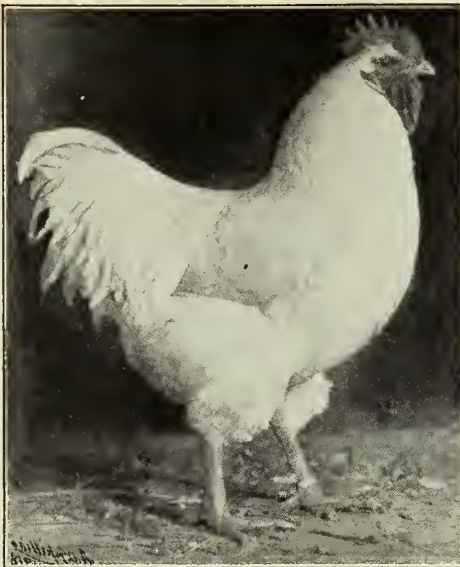
The United States Department of Agriculture is now spending an appropriation of nearly \$150,000 to increase the production of poultry, to speed up the hatching of early pullets, in order that we may have more poultry meat and eggs to save beef and pork. The department itself is installing mammoth incubating equipment on Government farms. It is recommending and urging the use of incubators and brooders to speed up poultry production.

Our State Agricultural Colleges are fairly humping themselves to get people to use incubators and brooders in order to increase the production of poultry—we need the increased food supply to ward off famine, as well as to make sure of being able to feed our fighting men and our Allies.

Mr. McAdoo, Director-General of Railroads, has exempted farm machinery and agricultural implements for spring planting from all embargoes — unfortunately he did not specify that incubators and brooders be included in such farm machinery.

The American Incubator Manufacturers' Association has been endeavoring to secure prompt delivery of incubators and brooders during February and March as necessary farm machinery, needed to speed up food production. Surely incubators and brooders are greatly needed at this time of the year, if we are to increase the production of early pullets, essential to fall and winter egg production, and the early cockerels which may be quickly grown into large meaty roasters.

But, W. F. Priebe, "poultry packer" and "dollar a year man" on the poultry and eggs job of the Food Administration, does not see the matter in this light. He takes the position that the railroads already have enough trouble without adding to their burden. The farms of the middle west have always contributed sufficient poultry and eggs to fill his string of poultry packing houses, and, doubtless, he isn't worried



Winners!

STARKS "Garden King"

1st Cock, Madison Square Garden, 1917-18. At this, America's greatest show, our birds won as follows: Cock — First, Third, Fifth. Cockerel — Second, Fourth. Hen — Second, Third, Fifth. Pullet — Third. Pen — Third. The greatest Garden winning ever made by a Western exhibitor.

STARKS WHITE ROCKS

are truly "winners and workers." The records in the show room and on the nest prove it. Our winning birds are also fine layers. Our heaviest layers are true White Rocks of show quality. No birds on earth have more "pep" and vigor than these bred in the North, where the temperature reaches forty below zero.

Altho our birds possess such all-round excellence, our prices are most moderate. We are offering a number of grand cockerels, hens and pullets and

BIG VALUES IN EGGS

for this season, both in single sittings and larger lots. And our broad guarantee is behind every sale. These eggs carry the blood of our winners at the leading shows and of our high-record layers. They will produce "winners and workers" for you, will enable you to get more fun and profit from your poultry work. You can pay more—you can't get more! Investigate. Write today for that catalog.

STARKS FARM Box 100 STARKS, WIS.

Workers!

STARKS "Wisconsin Belle"

Record, 240 eggs in pullet year. Hens in the same pen with "Belle" have pullet-year records as follows: 247, 247, 246, 244, 244, 241, 240 and 239 eggs. Mated to the son of a 240-egg hen. The finest group of show quality, heavy laying White Rocks ever produced.



TYPEWRITERS

\$10 and up. All makes. Save \$25 to \$50 on rebuilt at the factory by the well-known "Young Process." Sold for low cash—installment or rented. Rental applies on purchase price. Write for full details and guarantee. Free trial.

YOUNG TYPEWRITER CO.
Dept. 533, Chicago



very much about being able to stock up this season. He virtually tells the incubator manufacturers that they will have to wait until the embargoes are lifted in the regular way. It will be remembered that he predicted grain prices after January first at 40 to 50 percent lower than the prices of fall and winter of 1917. He also urged the public to eat less eggs, on ground of feared egg famine, reported 85 percent of cold storage eggs consumed, at a time when eastern cold storage was carrying almost a double stock for the season and poultrymen would be heavy losers if consumption of eggs should fall off more than it already had. He was working for the fixing of unreasonably low maximum prices on storage eggs in New York at about the same time. Also he is believed to be responsible for the maximum prices of storage eggs, which the Food Administration announces it considers as fair wholesale prices for eggs now in stock, viz.: For Chicago, 40 cents per dozen for storage firsts and 41 cents for extras; for Buffalo and Pittsburgh, Chicago prices and a differential of one cent; for eastern seaboard



Do you breed S. C. W. Leghorns?

Would you like to have a fine catalog of your own, handsomely illustrated in colors, but find the cost too much? If so, send for a sample and prices of my special catalog for S. C. White Leghorn breeders. Catalogs in colors from \$7.00 up. THOS. NASH, 542 S. Dearborn St., CHICAGO, ILL.

centers, Chicago prices plus a differential of two cents. It should hardly be necessary to state that, if these prices are forced, eastern poultrymen who put eggs into storage on consignment to avoid losses are bound to lose heavily.

We are still hoping that the Food Administration will soon "see the light" and give a square deal to poultrymen and other food producers. Keeping the price down to consumers may temporarily gain the approval of the buying public, but it does not encourage producers to increase production. Later on, when the real shortage causes the public to feel the "belly pinch," public opinion may quickly change to condemnation, and consumers will be clamoring for food at any price. Then we would not wish to be in the shoes of the well-meaning men who are now so busily engaged in price fixing to please the public and which is certain to discourage production. A man with a full stomach will view complacently many things which he sees differently and which drive him to desperate measures when his stomach is empty and there is nothing in sight with which to fill it.

Things are surely in a desperate muddle just now, and all these difficulties were foreseen—most of them could have been prevented. Will we wake up to save the food situation before it is too late? The time is very short, the growing season for both poultry and crops is close at hand. It is time now to be using incubators and brooders, and we hope that someone in authority will help to speed up the delivery of these very

necessary farm machines. Write your incubator man today; we believe he will be able to make reasonably prompt delivery, and you may be able to help him to speed things up. Tell him what you need in equipment and how many chickens you expect to raise this season. Do it now.

The Baby Chick Industry.

BABY chick hatcheries have been having some rather hard sledding this season. The fuel shortage presented unexpected difficulties which were only overcome by prompt action on the part of the International Baby Chick Association. Then, owing to transportation difficulties, the express companies proposed limiting baby chick shipments to points within 400 miles direct line. This, we think, a big mistake even under prevailing conditions of transportation. If a limit must be placed it should be extended to a radius of at least 1,000 miles from the hatchery. Certainly chicks could be safely delivered that distance, even if transportation gets worse than at present. Strong, healthy chicks, if properly packed and properly handled during shipment, should safely make any journey by express which can be covered within 72 hours from hatchery to customer. We do not understand that the express companies have made any fixed ruling as yet and hope that no limit will be set for distances less than 1,000 miles.

We are informed that the express companies desire to do everything pos-



E. B. Thompson's Imperial Ringlet Barred Plymouth Rocks

are recognized throughout the world as the leaders of all Barred Rocks. Their record at Madison Square Garden, New York, 1918, is without a parallel. (See back cover page for this achievement).

You Want Eggs to Produce the Silver Cup and Blue Ribbon Winners for Next Season's Shows

No other Barred Rock eggs have ever produced the supreme high quality birds as my Imperial "Ringlets." Hundreds of old customers order eggs every year — these eggs have

brought them rich rewards in Silver Cups and First Prizes, and proved the foundation for many a money-making business.

My Imperial "Ringlet" Eggs will Put You in Position to Win at Next Season's Shows

You may raise a single chick worth hundreds of dollars, hundreds of my customers have done this.

My Matings are Unequaled in All America

No such magnificent color and barring can be found on any other living birds. In my Imperial "Ringlet" eggs you get the best First Prize Sweepstakes Madison Square Garden winning blood, which you must have to win in the strongest competition. I want to help every customer get First Prize Winners — they know they get the finest eggs in America and consider it a privilege. You will share with me and have an equal chance of producing the finest First Prize Birds of the year.

MY EGGS ARE THE BEST MONEY CAN BUY — THEY PRODUCE FIRST PRIZE BIRDS

Mr. E. B. Thompson,

Dear Sir: I showed the E. B. Thompson Strain at Charles City, December 18th to 21st, won 1st and 2d Cocks; 1st, 3d and 4th Cockerels; 1st, 2d, 3d, 4th Hens; 1st, 2d, 3d Pullets; 1st, 2d Pen. At Hampton, Iowa, January 7th to 12th. 1st, 2d Cock; 2d, 3d, 4th Cockerel; 1st, 2d, 3d, 4th Hen; 1st, 2d, 3d, 4th Pullet; 1st Old Pen; 1st Young Pen. I think that shows that E. B. Thompson has the stuff.

Yours truly, J. E. Weiss.

I WILL HELP YOU TO GREATER SUCCESS AND LARGER PROFITS
Richly illustrated catalogue mailed upon request.

EGGS from the finest Exhibition Matings in the World; one setting, \$15; two settings, \$25; four settings, \$45; 100 Eggs, \$80.
Safe Arrival Guaranteed.

E. B. Thompson

Lock Box 510, Amenia, N. Y.

From Egg to Egg Basket



It's
not the
chicks
you
hatch
but the
chicks you
raise that
bring the
profit

We have eliminated the "problem" in feeding.

First: Blatchford's Milk Mash will push your little chicks forward with a sturdy, natural growth and you will avoid all loss from *bowel trouble, leg weakness or white diarrhea.*

Blatchford's

Milk Mash
saves the
baby chicks

Blatchford's Milk Mash

—composed of milk, milk substitutes, meat and grains, prepared for easy digestion—should be *every chick's* first feed. Keep it constantly before them until they are three months old, as it *grows, matures or fattens*

Then: by following *at once* with **Blatchford's "Fill the Basket" Egg Mash** the feeding system remains unbroken, and there is no "problem" to solve as to what the "next" feed shall be.

Sold by progressive feed dealers everywhere

Manufactured only by

Blatchford Calf Meal Company

POULTRY MASH DEPARTMENT

Waukegan, Illinois

Write us for name of nearest dealer

HERE I AM—START ME RIGHT—KEEP ME GOING

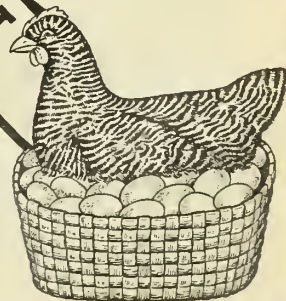


2 1/4 pounds at 8 weeks

AND I WILL FILL YOUR BASKET

It is the best *starting, growing and developing* food obtainable, carrying all kinds of young poultry safely through the danger periods of early life and assuring a profitable maturity—either for the laying-pen or market.

No fillers, by-products or waste materials being used in its manufacture, every bit is eaten up clean by the rapidly growing birds.



sible to handle the baby chick shipments in a satisfactory manner and that it is expected that fully twenty million baby chicks will be carried in the 1918 season shipments. Shippers are asked to co-operate with express agents to secure prompt service and to insure that customer is ready to receive the chicks immediately on arrival.

Baby chick hatcheries are well supplied with hatching eggs, having contracted with breeders of Standard-bred fowl last fall to insure a good supply. The hatchery men are right on the job and doing their utmost to deliver chicks to aid in the big drive Uncle Sam is making for increased production of poultry. We understand that the United States Department of Agriculture will shortly issue a special bulletin devoted to the interests of the baby chick business. Of course, that will help in the effort being made to encourage customers to "buy more baby chicks."

Now comes a new and interesting development of the baby chick situation. On January 26, 1918, W. F. Priebe, head of the poultry and eggs division of the Food Administration, wrote a letter to the Buckeye Incubator Company in which he said:

"You would be surprised to see the number of letters we have had from people asking the Food Administration to prohibit the hatching of chickens for display advertising, and the shipping of day-old chicks. The statement is made that a great many people buying these chicks do it for the novelty of the thing, and most of them being amateurs, do not know how to take care of chicks, and in reality it is a great waste and should be prohibited during the war.

By this you will see that there are always two sides to every proposition.

"I want to ask you a question that I have asked various others, and it is: *'What percentage of the birds hatched and sold thru stores or shipped as day-old chicks do you think grows up and becomes food?'* In answering this question, I am sure that you will forget any self-interest in the matter, and also please understand that in asking you this I am in no way prejudiced. I am simply trying to arrive at a fact."

Now, isn't that the limit? Most of AMERICAN POULTRY JOURNAL readers will guess that those who are "knocking" the baby chick business to the Food Administration are of the same piece with that little group of "has beens" who, at the Atlantic City convention of the American Poultry Association, in 1913, tried to knife the baby chick men and legislate them out of business. A small group of slip-shod near-fanciers, who blamed the baby chick business for their lessened sales of hatching eggs, when in reality their loss of business was chiefly due to careless business methods and failure to give customers that good service which is delivered by the up-to-date fanciers, and which means satisfied customers and repeat orders. We really did not expect this bogey to rear its ugly head again, but evidently there is no limit to the possibilities of envy and malice in incompetents, who cannot stand to see others prosper where they fail.

Mr. Priebe's question is an interesting one but very difficult to answer. One might as well ask at spring seeding time, "How many kernels of corn will mature a sound, ripe ear?" Novices

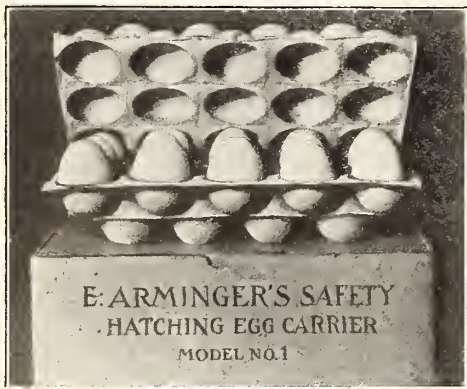
usually have exceptionally good luck rearing their first brood of chicks, because they are unusually careful with them. Later on, when they find it an old story to raise a brood of baby chicks, some of them may grow careless and reap the experience which generally follows carelessness. However, the fact remains that beginners are wonderfully successful at chick rearing with the first broods as a rule. It is our firm belief that fully as large a percentage of baby chicks sold and shipped by reliable hatcheries, reach marketable maturity as do chicks hatched and reared on the farm, or back lot, whether by hens or in incubators and brooders.

Chick mortality is a thing we have to reckon with, no matter where or how the chicks are hatched and reared. Every egg will not produce a chick and every chick hatched may not live—Nature does not work that way; she is prodigal with seed, and losses of young life, whether animal or plant, are always considerable—only the fittest survive. Should only 50 percent of the chicks hatched and shipped survive, the work would be well worth while. However, take the season thru and counting all losses, big and little, it is our guess that quite 75 percent of the baby chicks are brought to marketable maturity and made available as food.

We should consider it a great hardship to be unable to buy baby chicks. We buy a good many each season, some near by and some from fully seventy-two hours distant. Of some broods we have raised every chick. We have known of some novices who made equally good records. In other broods our losses have been no greater than

AT LAST A REAL

Safety Hatching-Egg Carrier



Note how each egg is carried in its own compartment, protected by air cushions at the top and at the bottom.

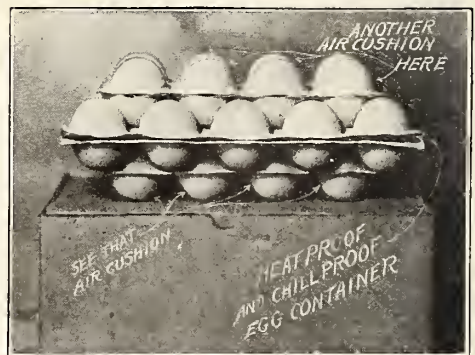
FANCIERS SAY IT'S THE BEST CARRIER EVER INVENTED

U. R. Fishel, the well-known White Rock breeder of Hope, Ind., who probably ships more eggs than any other fancier in America, is going to use them this coming season. J. C. Fishel of Hope, Ind., the White Wyandotte breeder, will also use them. Eugene Smith of Aurora, Ill., breeder of White Leghorns, has placed his order. C. R. Baker, Abilene, Kansas, has also placed his order. Russel F. Palmer of American School of Poultry Husbandry, Leavenworth, Kansas, says it's the best thing for the purpose, and what the fanciers have long been looking for. Artist Stahmer says: "The fact that I have taken the agency for your carrier to represent you at the poultry shows this season is sufficient proof that I consider your carrier the most perfect and safest ever placed before poultry fanciers of America."

Heat Proof Shock Proof Chill Proof Fool Proof

Don't waste your time shipping valuable hatching eggs the old-fashioned way when you can buy **Arminger's Safety Hatching-Egg Carrier**. The best thing ever invented for the purpose. All eggs are protected by air

cushions and suspended in individual compartments, thus preventing all of the eggs from getting soiled in case one of them should be broken. The carrier is constructed in such a manner that accidents of this kind can seldom happen. Made from non-conductive material and prevents eggs from getting overheated on account of being placed near steam pipes and likewise prevents them from being chilled if exposed to cold.



They cost no more than others but are years ahead of them in safety

Write for circular giving complete instructions for packing and prices.

Elmer L. Arminger, 216 S. Water St., Chicago, Ill.

POORMAN'S 200 EGG STRAINS

THE
WORLD'S
BEST
LAYERS

BABY CHICKS

TRAP-
NESTED
200 EGG
STRAIN

EGGS



STOCK

White and Barred
Plymouth Rocks
Rose and Single Comb Reds

LADY ALFARATA BUSY BESS
Record 301 Eggs Record 285 Eggs

White and Buff Orpingtons
S. C. White Leghorns
White Wyandottes

Stock, Eggs and Baby Chicks from my Improved Laying Strains and your careful attention will mean your success. I am offering you Stock, Eggs and Baby Chicks from the same stock that has proven entirely satisfactory to thousands of my customers in this and many foreign countries.

RESULTS

Cincinnati, O., Jan. 30, 1918.
Mr. John G. Poorman,
Tinley Park, Ill.

Dear Sir:
Enclosed please find Money Order (\$30.00) for a White Rock cockerel from your special mating. Kindly give me some information as to his ancestry, as I intend to breed him to some extra heavy laying hens. These hens were raised from chicks purchased from you in 1915 and 1916. Have trapnested them and some of the records are 280, 242, 216, 201, 200—not from the date of their first egg, but from November 1st to November 1st, same as the official laying contests.

Please ship as soon as possible via American Express to Elmwood Place, to be marked, "Will be called for."
J. J. H.



Special Pair Mating—S. C. Reds

RESULTS

Grosse Ile, Mich., Feb. 5, '18
John G. Poorman,
Tinley Park, Ill.

Dear Sir:
Enclosed find my check for \$15.00 for which, with my credit of \$10.00, kindly book my order for 50 Class A day-old chicks.

If possible, I would like to receive this shipment by American Express not later than the 15th of April.

This sure has been tough laying weather for the last sixty days, but you may be surprised to learn that the Poorman Orpingtons have been hugging the 50 percent mark for December and January and have outlayed some White Leghorns which I had given to me last year.

With best regards for the season's success, I am
Very truly yours,
N. A. P.

My 18 Years

of practical poultry experience has been incorporated into my bred-to-lay strains in such a manner that brings forth unsolicited hundreds of repeat orders from customers of many years standing. My catalog contains descriptions of my plant by representatives of the leading poultry publications, reports from many of my customers, and also my methods of breeding, care, and management. It is fully illustrated, and very instructive, and will prove to you that my prices on eggs at 15c and 30c each, baby chicks at 25c and 50c each, and breeding and laying stock at \$2.50 and up, are very reasonable.

Start right, by writing for my instructive catalog today.

It has helped others and will undoubtedly help you.

JOHN G. POORMAN, BOX 100, TINLEY PARK, ILLINOIS, U. S. A.

with home-hatched chicks. Each season we have made it a practice to ship hatching eggs to a custom hatchery, located about twenty miles from our farm, and have such chicks as we needed from these eggs shipped back to us. It is much more convenient than hatching at home and quite as satisfactory. One veteran poultryman of our acquaintance says that he believes that the chicks he buys from a Boston store make a better live of it than those he hatches at home.

It is surprising that anyone would make themselves ridiculous by opposing the baby chick industry at this late day, particularly today, when, as a war measure, there is under consideration the plan of establishing a chain of mammoth hatcheries, for community custom hatching, from Atlantic to Pacific.

The baby chick industry and custom hatching is no new thing. It has been an established success for several thousand years. It is not likely to fall down now, unless we are too ignorant to appreciate the hatcheries in this country and so persecute them that they have to stop business.

In Egypt, mammoth incubators have been in successful use since many hundred years before the birth of Christ. They are being successfully conducted today in spite of the world war. At least Dr. Howard S. Paine, an American traveler and scientist, who was in Egypt during the winter of 1916-17, visited one of these Egyptian incubators at Luxor, about 600 miles up the Nile, and found it doing a good successful business. He made a report on it in July, 1917, AMERICAN POULTRY JOURNAL.

This Egyptian hatchery, of ancient

type, had a capacity of 56,000 eggs at one hatching. He stated that the number of unhatched eggs was small. Other travelers report that these Egyptian hatcheries do business on a community plan, that they exchange a given number of chicks for a certain number of hatching eggs, or charge a low price per chick. The chicks are often carried long distances back into the country, making the journey in small cages on donkey-back. This baby chick business in Egypt, so far as we can learn, has been going on successfully, and in the same fashion, since the ancient days of the great Pharaohs.

Just because some little group of jealous men, or some group of fanatics, are opposed to community hatching and the baby chick industry, are we going to listen to their nonsense? Are we ready to admit that Americans are less clever than the natives of Egypt, who, ever since History was wearing swaddling clothes, have been calmly hatching, selling, shipping and rearing baby chicks and making such a success of it that the baby chick industry of Egypt has lived longer than Egyptian civilization?

Small wonder that Puck, in "Midsummer Night's Dream," said: "What fools these mortals be."

R. C. Rhode Island Red Contest.

ROSE COMB Rhode Island Red breeders are "full of pep," all right. When Hubert Meyer, Riverview Poultry Farm, Klondike, Mo., offered three prizes for best articles on "Rose Comb Rhode Island Reds—Why I Breed Them" to AMERICAN POULTRY JOURNAL readers, he "started something."

Fifty-five articles were received, including Red enthusiasts in Illinois, Indiana, New York, West Virginia, Iowa, Kansas, Pennsylvania, Maryland, Missouri, North Carolina, Texas, Michigan, Minnesota, Ohio, Connecticut, Colorado, North Dakota, Oklahoma, Wisconsin, Tennessee, Kentucky, Mississippi, and Ontario, Canada. Most of the articles were excellent, a few were just brief boosts for the Reds, but not long enough to count as articles. The exceptionally interesting articles will appear in AMERICAN POULTRY JOURNAL from time to time.

Many of the contestants made a point of the good fellowship existing among Red breeders and one said: "There are always a good bunch of fellows to rub elbows with in Red alley."

The prize awards follow:

First Prize. One pair pedigree R. C. Rhode Island Reds, cockerel from an egg out of "World's Champion Pen 59" and pullet from a hen having a record of 230 eggs in one year; value of pair, \$35. Won by L. E. Rauch, a railway postal clerk, of Carbondale, Illinois; best article in contest.

Second Prize. Pedigreed Rose Comb Red cockerel from "World's Champion Pen 59;" value, \$20. Won by George B. Curran, secretary Canadian Rhode Island Red Club, Napanee, Ontario, Canada; second best article.

Third Prize. One sitting of eggs from "World's Champion Pen 59." Won by Carl E. Scott, farmer, Moundridge, Kansas; third best article.

Mr. Meyer has been notified of the prize awards and requested to make delivery as advised by the winners. We congratulate the winners and Mr. Meyer



First Cockerel, Madison Square Garden, 1918

The Morris White Orpingtons

"The Proven Leaders"

Again Prove their Superiority
by Winning at

Madison Square Garden, New York
January 1st, 1918



First Pullet, Madison Square Garden, 1918

1st and 3rd Cockerel
2nd and 5th Cock

2nd Pen
Best Display

1st and 4th Pullet
1st and 4th Hen

At this great National Show we have won the last three years more points than any three of our competitors combined.

"The Proven Leaders" are the Real "Repeaters"

Last season they won at Madison Square Garden, Chicago Coliseum and New York State Fair, the three strongest shows of the year, 10 firsts, 6 seconds, 4 thirds and best display at each show, besides every special cup offered.

Leaders as Exhibitors—Leaders as Layers

In the American Egg Laying Contest conducted by The American School of Poultry Husbandry, Leavenworth, Kansas, our Pen No. 27 ranks second for the first three months, November, December and January—51 pens competing, all varieties represented. Our pullet No. 273 laid 19 eggs in November, 23 in December and 24 in January, zero weather prevailing. We breed a dual purpose fowl—meat and eggs—as well as one that wins in the show room.

Eggs for Hatching

Our pens contain the World's Best in White Orpingtons. Twelve grand pens are headed by winning males at Coliseum, Chicago, and Madison Square Garden, New York. Book your orders early, we will give "value received." We can supply a number of Baby Chicks in April, May and June. Catalog free.

The Morris Poultry Farm H. RAWNSLEY, Mgr. **Lebanon, Ohio**

Announcement

February 9, 1918.



TAKE this means and opportunity of *announcing* that I have engaged the services of Mr. Charles Hubbard (for 15 years in charge of the celebrated Foxhurst Farms, Lime Rock, Conn.), who will have full charge of my poultry plant.

I have taken over Mr. Hubbard's string of Peerless Buff Orpingtons, which breed will be continued. My other breeds are S. C. White Orpingtons, S. C. White Leghorns and S. C. Black Minorcas. I have been breeding the last three mentioned strains for several years; all of my foundation stock was purchased from the best breeders of these strains in this country and when I purchased them I paid liberal prices, getting birds that were direct descendants of Madison Square Garden prize winners. There are in all about 400 birds in my coops at the present time and the highest compliment I can pay them is to mention Mr. Hubbard's remark when he visited my place with a view of looking it over. At his first sight of the birds he exclaimed: "Say, by George, these birds are fit for fast company right now," and I feel confident that it was the birds as much as anything else that induced Mr. Hubbard to accept a position with me.

A mating list will be ready for distribution in the very near future and I will be very glad indeed to mail one to any and all applicants; incidentally as my plant is conveniently situated, it being only thirty miles from New York City and situated on the Boston Post Road. I extend a hearty invitation to all visitors, who I know will be gladly received by Mr. Hubbard.

HUBBARD'S POULTRY SECRETS

This well recognized book Mr. Hubbard will be glad to mail to any one post paid on receipt of \$1.25, and I personally *guarantee* that after the book has been read, if it is not entirely satisfactory I will return the money.

I was one of the early purchasers of a copy of this book and I consider that it contains more *horse sense* regarding the Mating, Growing and Caring for Poultry than any other book I have ever read.

Robadel Poultry Farm

A. C. ROBERTSON, Prop.

COS COB, CONN.

BABY CHICKS!!

From YOUNG'S STRAIN S. C. WHITE LEGHORNS, 200-285 egg layers. The World's greatest laying and exhibition combination. Government tests show Leghorns lay more eggs and eat less feed than other breeds. If you want eggs come on the right side of the fence.



Grade A pens contain my best females, 200-285 egg blood lines, mated to sons of Madison Sq. Garden, New York, 4th cockerel, 4th cock, 1917, and 4th cock, 4th cockerel, Boston, 1915. Baby chicks from these pens \$20 per 100, \$12 per 50. Grade B pens contain same quality as above, only short on show points. Baby chicks from these pens \$15 per 100, \$8.50 per 50. I guarantee safe delivery of chicks anywhere in U. S. east of Rocky Mts. Eggs are one-half the price of chicks. Catalog telling of my methods free.
David T. Farrow, Peoria, Illinois.

"BRED TO LAY"

That's the Reason the Powers' Strain White Wyandottes more than satisfy our many customers. If you want layers, birds bred from stock with records of 200 eggs and over per year, we can supply you. 200 Choice Pullets for \$3 and \$5 each for a quick sale. 25 Choice Cockerels for \$5 and \$8 each. Hatching Eggs, \$3 per setting of 15; \$16 per 100. Write us your wants.

J. H. Powers Poultry Yards
7920 Bennett Avenue Chicago, Illinois



Silver Penciled Plymouth Rocks

— BUFF, WHITE and BARRED ROCKS —

Winners at Chicago, New York, Boston, St. Louis, Illinois State Fair, 1917.

Silver Penciled Rock Stock for Breeding and Show purposes, for sale. Eggs from the finest pens in America. \$5.00 and \$3.00 per setting. Any variety. Catalog free.

PETER C. JUNGELS - LEMONT, ILLINOIS



CHIC-CHIC-CHIC

YOUR HENS NEED **CRYS-CO.** IF YOU WANT MORE EGGS AT LESS COST

Different from all other grit. No additional grit needed. 99% PURE CARBONATE OF LIME. Better than Oyster Shells

ENDORSED BY LEADING A.P.A. MEMBERS AS WELL AS THOUSANDS OF POULTRY RAISERS.

WRITE FOR BOOKLET ASK YOUR DEALER **W.A. NEUSITZ CO. ST. LOUIS, MO.**



S. C. White Leghorns

Chicks and Eggs for Hatching

It will pay you to raise our chicks, and in a short time. One customer had our pullets laying 33% the 3d day of October last. All eggs are from our own nests, no huckster stuff; we have bred this breed for the past 18 years. This means something to you. You can depend on getting what you expect. Write us for our reading matter.

PURITAN POULTRY FARM Route 2, Box 21 **ZANESVILLE, OHIO**

OUR NEW POULTRYMAN'S ACCOUNT BOOK will help you keep a daily record of your flock for one year. Price 25c. American Poultry Journal, 542 S. Dearborn St., Chicago.

on the success of this contest. It is a very fine showing for Rhode Island Red breeders in these strenuous times when we have so many things besides our poultry work to occupy our thoughts. Winning articles appear in this issue and others will follow as we have space for those of most human interest.

March.

ACCORDING to the almanac, spring begins on the twenty-first day of this month. To most of us it will be particularly welcome. For a large part of this country the winter, now passing, has been the most severe since the famous "Eighteen hundred and freeze to death," the winter of the great cold nearly a century ago. Yet the whole country has not suffered and some parts of the West have been specially favored. A correspondent in northern Idaho wrote us that he picked roses in full bloom in his garden on Christmas day, and that up to the middle of January it was the mildest winter he had experienced there. Happily for all of us, spring should soon be here.

This should be a very busy month for our readers. The broods of early chicks will require careful attention to keep them comfortable and growing rapidly. There should be many more hens set, and the incubators should be kept running to full capacity. Hatching egg and baby chick orders should be speeded up. There is plenty of work to do and there will be more of it soon, with long days full to overflowing with demands for our best efforts, when the spring rush comes close on the heels of milder weather. There will be no more idle or vacation days, enforced or otherwise, until the spring broods are well started and the crops are coming along in good shape. The sixteen-hour day will soon be the rule for poultrymen, and some of us will be lucky if we are able to clean up our day's work between 4 a. m. and 10 p. m.

The appeal to "raise more poultry" is growing more urgent every day. We should all raise what we can. But don't let enthusiasm run away with your better judgment. A small flock well reared is worth far more than a big flock half fed and half cared for. Grow only as many chickens as you can feed well and properly care for. Quality counts most, and a well-kept flock in good flesh will do far more to help out the food supply than a big flock of scrawny, rangy, half-fed wasters. "Don't bite off more than you can chew." Do not start something you can't finish. But do keep busy and produce all you can of best quality chickens. Get your neighbors interested in poultry keeping and help them to make a success of it.

ROSE COMB

ALMY'S REDS

SINGLE COMB

THE GREAT SENSATION AND RED PRINCE STRAINS

Win at MADISON SQUARE GARDEN, two firsts, two seconds, and three shape specials, etc., etc. In addition to our clean-up at BIG PROVIDENCE SHOW, of 8 firsts, 4 shape, 3 color and 5 gold specials, and display for 10th successive year.

Eggs \$10 per setting of 13, from our finest Ex. matings. Send for Mating and Price List, telling how, or order direct from this ad.

Cockerels Some elegant breeding cockerels, very low, also Pairs, Trios and Pens.

RED FEATHER FARM, F. W. C. ALMY, Prop.

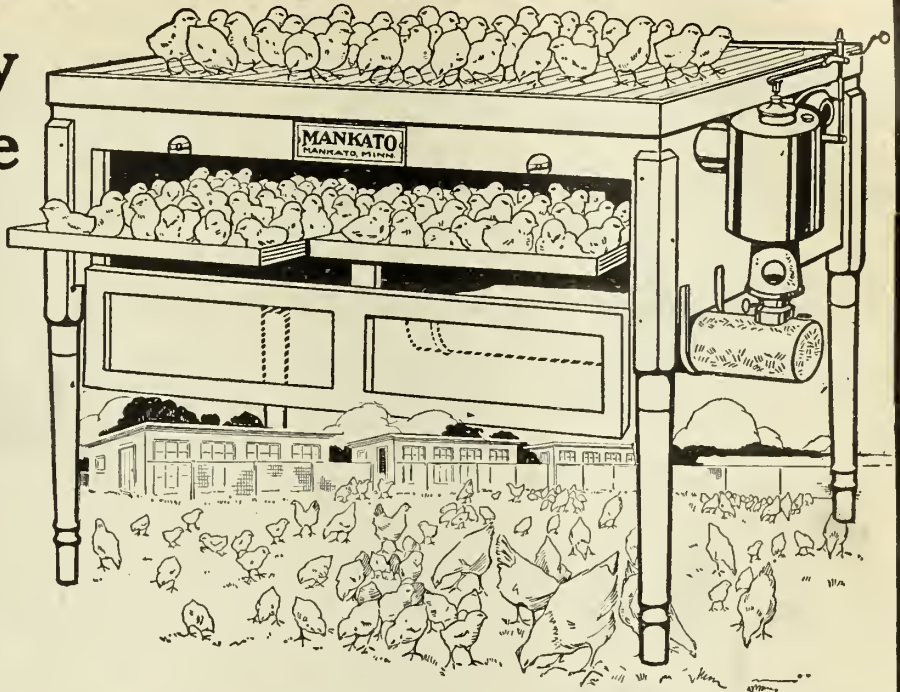
Box 100, TIV. 4 CORs., RHODE ISLAND

Here Is My Masterpiece

—the Result of Many Years' Experience—



F. H. MILLER



Be Sure of Big Money-Making Hatches This Year With the Great Mankato Special

Which Comes Quick by Fast Express, All Charges Paid by Us, to Practically All Points

HERE is the dependable time-tested quality Mankato Incubator—the old standby of thousands of successful poultry raisers. Built with wonderful new improvements, which have been carefully tested on our great poultry farm, and are backed by our strong guarantee and many years of experience in incubator building in the Northwest where you have simply got to have a good machine if you want big successful hatches in cold weather, yet our machines are so simple and so easy to operate that a child can make big successful hatches with it.

6 New Features

Large Oil Tank—one filling to hatch saves work and keeps lamp from going out and spoiling the hatch. Extra strong egg tray, the kind that don't wobble when taken out. Has triple walls, heavier insulated Redwood case construction. Double glass door. Thermometer always in sight. New Double-Sure End Regulator, which leaves a clear table top. Great combination Double Heating System—Hot Water and Hot Air. Better than ever with more heat radiation surface. Wonderful new automatic ventilating system. No adjusting, a real chick life saver.

Express Prepaid

to practically all points. Here is the incubator you want, a high grade hatcher direct from factory to user at wholesale price, no dealer, no middleman's profit. We divide the melon with you. Why risk your valuable eggs in an untried or cheap machine, when you can get this time-tested Mankato Special with all latest improvements at factory prices? Write for our money-saving offer on this machine. Go in for a money-making success with the old standby that is now making money for thousands. Write today.

Large New Book FREE



Be sure to send for this valuable book "Pointers on Hatching," telling all about this wonderful hatcher now used by thousands of successful poultry raisers, and how you too can make more money by raising chickens than ever before. Take our advice that this year is going to be the biggest poultry year the world has ever seen—never has there been such a wonderful opportunity to make money from poultry—and a small investment will start you. Read this letter, **PLEASE!**

Hampton, Minn., Aug. 1, 1917.

I will tell you what wonderful luck I had with your new 1917 model incubator. It certainly works fine. Had a 200-egg incubator and hatched 180 lively chicks. People told me that incubator chicks would not thrive as well as others. I must say they can come and see for themselves that they are far ahead of the chicks raised with clucks. I certainly feel proud of my incubator and also my little daughter of 10 can run it alone next year. This is my first experience with an incubator and must say again was very lucky with the machine. Must say machine is so well patented that it really is so simple to run and especially the large oil tank which certainly is a boon to the machine. My first hatch was fine—180 lively little chicks. Second some better. I certainly cannot praise the Mankato Special enough. I would not sell my incubator for double the price if I were not to get any more like it. Many of my friends are bound to get one like it next spring. I broke the record all around here with my Mankato Special. Followed the direction book very closely and you can't fail. Would advise any person interested in an incubator to be sure and get the Mankato Special—large machine. Don't buy too small a machine, as the large one only needs the same amount of care and not much more oil and you will have so many more little chicks. Hoping everybody will have as good luck as I had this spring, I am, Respectfully yours, MRS. NICK MIES.

MANKATO INCUBATOR CO.
MANKATO Box 752 MINNESOTA

Dr. Woods' Notes and Comment

Tomorrow's fate, tho thou be wise,
Thou canst not tell nor yet surmise;
Pass, therefore, not today in vain,
For it will never come again.
—Omar'Khayyam.

* * *

Clean up the incubators after every hatch. Good old-fashioned yellow soap and hot water, and all parts scrubbed clean, is as good a means of disinfection as any, as a general rule. Most so-called "disinfectants" have more power in their smell than in anything else, and doubtless this comforts the user. Keep incubator lamps clean, filled, wick trimmed and burner bright. Start each hatch with a new wick. Use same care with brooder lamps and put in a new wick every month.

* * *

Keep all the good, motherly, broody hens busy this month. Hen-hatched chicks in March and April can be reared with very little trouble and usually make good quick growth.

* * *

Be careful in feeding. There is much spoiled, heated, musty and moldy grain in the market this season. Such badly damaged grain is not safe to feed to small chicks and may cause heavy losses. If the chick food is off-color, looks bluish or greenish, and smells musty or moldy, do not buy it.

* * *

Keep brooders clean, litter them with hay-mow chaff, cut clover or cut alfalfa, after sanding the floor with dry, clean

sand. Keep the brooders well ventilated and air and sun them at least once a day. Do not pay more attention to the thermometer temperatures than you do to the comfort of the chicks—it is chick comfort that counts for successful rearing.

* * *

Both crushed oats and rolled oats make fine food for small chicks. Steel-cut oats are good. A daily ration of clean, bright sprouted oats, fed in a small box where chicks can scratch them over, makes an excellent exercise food. Remove the wilted left-overs each afternoon and give a new supply of fresh sprouts in the morning.

* * *

Baby chicks do not require a great deal of food the first three weeks, but what they do get should be good, sweet, clean and wholesome. It is apt to prove wasteful to attempt to economize on foods for baby chicks the first three weeks. Cooked cereals, particularly boiled cracked rice, make excellent variety food for small chicks. A little will go a long way.

* * *

For first food for small chicks, we prefer hard-boiled eggs, rubbed up crumbly with dry cracker or bread crumbs. It is not necessary to moisten the crumbs, and better not to.

* * *

A good chick food can be ground at home in a grinding mill. Four meas-

ures of sound old corn, two measures of heavy white oats, two measures of heavy barley and one measure of good quality feeding wheat, makes a good mixture for grinding into chick food. Grind to chick food size and sift out hulls and meal. The meal can be mixed with an equal quantity of wheat bran and about 5 percent of fish meal or fine beef scrap and used as mash for the chicks. This season, except where one can secure an ample supply of dependable ready-mixed feeds, known to be sound and sweet, we may have to plan our chick food mixtures according to such supply of grains and feeds as can be obtained in local markets. Business has been so disorganized by transportation difficulties and conflicting regulations, that each community presents a problem of its own which the poultry keeper must solve for himself.

* * *

Good, sweet, clean fish waste, well scalded or boiled, makes excellent food for growing chicks. If you live near the ocean you can doubtless arrange with the small boys for a fair supply at reasonable rates. Near rivers, ponds and lakes, the same plan will work well.

* * *

We have received from M. C. Wilson, Oil City, Pa., a very welcome supply of golden sugar corn, a special strain of his own raising. He says that it is very fine for the table and that it grows with red stalks and red-ribbed green leaves. We are going to plant a piece of garden with this corn and give it the best of care. We are looking for some good-sized, rosy-skinned, early potatoes—the kind that cook up fine-flavored and mealy. If any reader has

Money-Making Leghorns

That fairly describes the stock from the Lord Farms. 90 percent of the good Leghorns in the New England States originated from our plant, and there are very few towns in New York State, Pennsylvania, or New Jersey that hasn't got a good thrifty poultry plant depending on our strain of Leghorns for their success. We have furnished the foundation stock during the past seven years to scores of well known farms, that are today doing a good business in day-old chicks and hatching eggs.

Standard American Bred Leghorns

No English blood in our stock. Our strain lays good sized market eggs, that always bring top prices. They are larger and more rugged than the exhibition American Leghorn. We have trapnested our stock for several years, and every male bird on our plant is a son of a 200 or better egg producer. Another good feature of our Leghorns is their stamina and vitality. We have received thousands of testimonials proving the extreme vigor of our stock.

Day-Old Chicks and Hatching Eggs

GRADE A		GRADE B		GRADE C	
Trapnested stock		Trapnested stock		Farm raised	
Chicks	100....\$ 23.00	Chicks	100....\$ 20.00	Chicks	100....\$ 17.00
	1000.... 220.00		1000.... 190.00		1000.... 165.00
Eggs	100....\$ 12.00	Eggs	100....\$ 10.00	Eggs	100....\$ 8.00
	1000.... 110.00		1000.... 90.00		1000.... 70.00

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Every hen in this grade has a record of 200 to 265 eggs. Chicks, 50c; eggs, 25c. We can take your order for 25 to 10,000 chicks at one shipment. Remember we are the largest breeders of W. Leghorns in the Eastern States. Write for catalog and complete price list with full description.

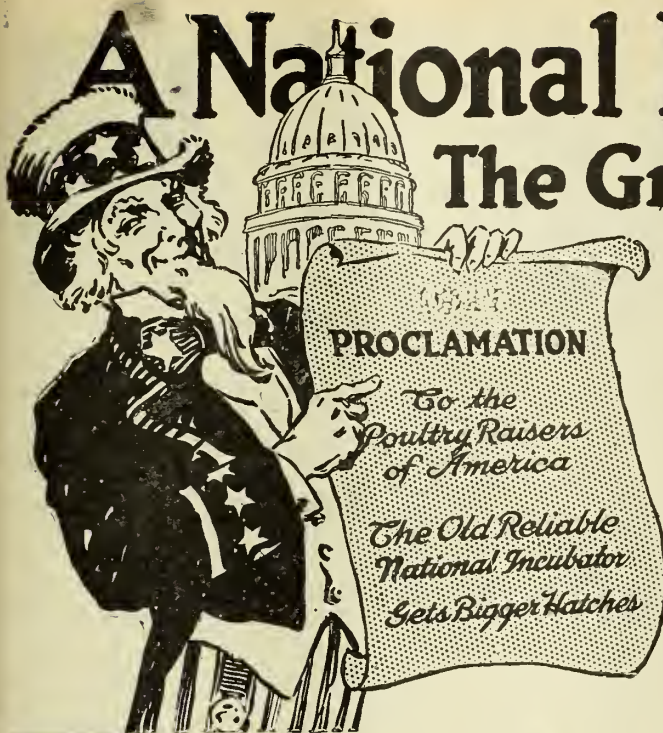
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Built on "Uncle Sam's" Specifications

as outlined by the U. S. Dept. of Agriculture in Farmers Bulletin No. 236. We want to prove to you that the old reliable National Incubators are the best built, best equipped and most durable machines made for the money. Here's how we built the National. Hot water heating plant—Double wall—Dead air space between—Double glass doors—Special high grade cold rolled copper tank—Asbestos lining—Famous National regulator and boiler—Self Regulating—Self Ventilating—Safety lamp—Tested thermometer—Metal case (which makes it sanitary, air tight and non-shrinkable). No extras to buy. Not a cheap tin covered machine. Easy to operate. Will not warp or shrink. Pays for itself many times in one season. With proper care will last a lifetime.

165 Egg National Incubator



The National Brooder Better Than The Hen

Protects the tender chicks from all harm. Keeps proper temperature—properly ventilated—strong—durable. Sent prepaid east of the rocks.

165 Egg Incubator Both \$12.50
165 Chick Brooder

ONLY \$10

Freight Paid East of the Rockies

We have built thousands of incubators, but never have we offered such amazing value. The National contains every modern operating convenience. We guarantee it to be faultless and will replace any defective part for five years. It is the greatest incubator value ever offered. To prove it to you we will send it for

40 Days Trial

12 Year Guarantee



What Users Say—

The Incubator you kindly sent the Agricultural class of the Carretville High School proved a wonderful success. The simplicity of putting the parts together; the ease of regulation; are virtues which speak for themselves. We recommend your machine to anyone. G. H. S. Agricultural Class, Ohio.
Pleasurship at once 165 egg machine. My other one is O. K. Got fine chicks my first hatch. Harry Neff, W. Va.
I find everything just as you advertised it. Mrs. M. G. Potter, Mich.

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Cannot explode or ignite—reliable, unbreakable. Produces steady blaze without smoke or fume. A sputtering, tuming, unreliable lamp will spoil your hatch and may cause fire.

To save time you can order direct from this advertisement. You risk nothing. Try the National for 40 days—compare with your neighbor—put it to the greatest of all tests—THE HATCH. If you are not satisfied it is the greatest incubator bargain you ever saw return it at our expense—we will promptly refund your money. We know you will not return it after your first big hatch of strong healthy chicks. You are absolutely safe. We deal fair and above board—no red tape. The publisher of this paper knows we will stand back of our word.

FREE 1918 Poultry Book

No matter whether you hatch 10 or 10,000 chicks you need this great book. It is far more than a catalog. Tells all about the care of eggs and chicks. All about this great hatcher and the men behind it. Worth dollars to every poultry raiser. Just the thing for beginners. Don't fail to get it when a postal will bring it. Send postal today.



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Use it the year around. Its perfect construction, simplicity, wonderful heating plant and metal covering combine to give it the greatest hatching value. This big metal covered machine is not to be classed with cheaply built machines. With proper care it will give you years and years of faithful service. Comes to you set up ready to run with egg tester and book of instructions. Order now and save time—start hatches early—early chicks bring the most money. Send postal money order, bank draft or certified check for \$10, (\$12.50 for both incubator and brooder. Machines will be shipped day order is received so don't delay.

NATIONAL INCUBATOR COMPANY
Box 162 Racine, Wisconsin

OUR MONEY BACK Guarantee Protects You

Take no chances, the hatching season is too short. This dependable Hatcher is the largest, simplest and best machine on the market for the money. Money cannot buy greater hatching value. You cannot fully appreciate this wonderful machine until you have tried it. The National gets big hatches when days mean dollars. Order this dependable hatcher today or send for big book and read what users say.

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for **Poultrymen** When feed is high and labor is scarce—save money with Galloways

Engines, Feed Mills, Corn Shellers

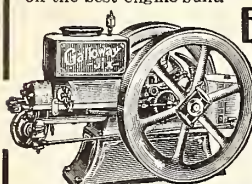
Let a Galloway Engine pump your water, run your feed mill and shell your corn. These are times that call for greatest economy and Galloway power is one sure way to economize.



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ENGINES

Light Work Models, 1 1/2 to 6 H. P.

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I make two sizes of feed mills—8-inch and 10-in. burrs. Work perfectly, grind fine, with regular flow. Big capacities. My Corn Shellers are self-feed—handle any corn—run easily, with big capacity. Strong, durable and wonderfully simple.

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Wm. Galloway, Pres. 3107 Galloway Sta., Waterloo, Ia.

a surplus of this kind of seed, we would appreciate a few of the spuds for trial in our garden. * * *

Most of us have a good deal of curiosity about the much-talked-of Russian Bolshevics these days. We wish that every reader could read the article, "What Is a Bolshevich?" by Charles Edward Russell in February *Hearst's*. It is a wonderful article and it is evident that Mr. Russell knows by personal experience what he is talking about. He says: "To the end of time mankind will probably have reason to lament that in the year 1917 the American did not understand the Russian and the Russian did not understand the American. * * * Probably we can understand the Russian better than anybody else can understand him, and we ought to do it. He is the worth-while man of the coming generations." Look up the article and read it.

Dr. Sanborn has made his first trip to Florida in winter and has returned home full of enthusiasm, with a very severe attack of the "Florida land fever." He wants to locate there right away, and to hear him talk about the country one would think that dollar bills grew on bushes, you could pick silver quarters from the nut trees, and gold eagles in the citrus orchards. He says, "There is only one Florida," and we believe him to the extent that winters there are undoubtedly very beautiful, and that we would like very much to own a winter home there. But when the good doctor gets to spouting about poultry keepers who are making a profit of \$1,000 a year on 500 hens, this past 1917 season, and about \$60 profits from the yield of a single nut tree planted for shade, we suspect that he has a very severe and genuine attack of "Floriditis." We have seen many people so affected, especially those who have reached a period of life when the severe northern winter becomes a hardship instead of a pleasure. We recall a friend who had a similar attack of "land fever" on spending a winter in California, and who plunged in California real estate while the enthusiasm was at its height, but she did not like her purchase after better acquaintance with it and sold out at a heavy loss. Any warm climate looks mighty attractive in the winter season to the man from the North, and there are desirable homes to be had in both of the states named, but it does not pay to buy in haste when filled with glow of the "land fever." Dr. Sanborn returned to the North and arrived in New York City during the coldest spell of the past winter, when the fuel famine was making itself felt. We do not wonder that the Florida he had just left seemed like a sort of "seventh heaven" to him. However, if we were buying land anywhere on earth to make a farm home, we should want to spend at least twelve months in the community before buying, or at least get pretty well posted on local conditions at all seasons of the year.

We have had a very severe winter in Massachusetts, hard storms, much snow, and long continued cold. We had more than one week of zero weather; there were periods when the mercury did not rise above zero for several days at a time, and one night it touched 28 degrees below, while 10 to 14 degrees below was too common for comfort. Dur-

Everlay Brown Leghorns



It pays to keep Brown Leghorns. Mrs. Russell, of Missouri, made \$1,970 last year from 365 hens. But it takes good stock. Vow to get a start of the best this year, direct from EVERLAY Farm, America's greatest winning-laying strain. 1-2-5 cocks, 1-2-3-4-5 cockerels, Madison Square Garden; champion males, Boston, Cleveland, Chicago, New Orleans; a 1 head pens. Eggs, \$5 per 15 and up. Farm flock, \$10 per 100. Safe delivery guaranteed.

H. V. TORMOHLLEN, Box 2, Portland, Ind.

WHITE LEGHORNS 282	READ'S Hatching Eggs Males and Females The Best by Test Write for Catalogue	WH WY-ANDOTTES 282
RHODE ISLAND REDS 251	GENUINE OFFICIAL RECORDS	BARRED ROCKS 263
GENUINE OFFICIAL RECORDS	THE READ POULTRY FARM Watervliet, N. Y.	GENUINE OFFICIAL RECORDS

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1917-1918—Single Comb

Brown Leghorns

My birds win, wherever shown, against the best S. C. Brown Leghorns in the world. I have a few good cocks, hens, cockerels and pullets for sale from \$5 up.

Eggs for Hatching

Also a few prize-winning Indian Runner and Buff Orpington ducks. Write for mating list and catalog.

My strain is as good as the best and better than the rest.

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Novak's S. C. White Orpingtons

First prize winners wherever shown. First prizes for 3 successive years at Wis. State Fair, and Mil. Nat'l Show, Jan., 1918, on six entries. 1st and 4th cock, 1st and 4th cockerel, 2nd and 4th hen, in large class of highest quality. Eggs for hatching, will please you with quality and prices.

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The Lo-Glo Electric Incubators and Hovers are the final expression of the art of incubation. Absolute control of Heat, Moisture and Ventilation insures big batches and strong chicks. All metal, fire-proof, sanitary, indestructible and odorless. Write for booklet "J."

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Aluminum, numbered to suit, with large raised figures. Postpaid 100-60c, 50-35c, 25-20c, 12-15c. Initials extra, 10c per letter per 100; 50 or less 5c. More than one initial with cut figures. Circular free giving price on Small Chick, Superior, Riveted and Pigeon Bands. Sample for stamp.

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Colored Big Double Number Poultry and Pigeon Bands. New coil Baby Chick Bands—not numbered. 12 colors. Try the modern way, you will like them. Very efficient. SAMPLES FREE.


ARTHUR P. SPILLER Box A Beverly, Mass.

62 BREEDS, Pure-bred Chickens, Ducks, Geese, Turkeys, Hardy northern raised vigorous, beautiful. Fowls, eggs, incubators, at low prices. America's Pioneer Poultry Farm. 24 years exp. Large free Annual Poultry Book and Catalog FREE. **F. A. NEUBERT, Box 675, Mankato, Minn.**

ing the entire winter the family spent the nights on our open-front, outdoor sleeping porch; the youngsters could not be induced to sleep indoors when it was suggested to them, during the long spell of zero weather. They have been comfortable, healthy and happy. Our poultry has, as usual, occupied the semi-monitor-top open-front houses, not a curtain of any description was used in these houses. The hens and pullets have been unusually productive, even the long continued cold spells have not caused any noticeable check in laying. Frosted combs have been comparatively rare among the males and none at all among the females. We are located on the shore of the coldest and windiest lake in this section and but three miles from the ocean. It, therefore, amuses us to find that a veteran poultryman friend of ours, who has a bleak hill-top poultry farm on the shore, with his poultry houses on top of the hill and nothing between them and the North Pole but the air and Atlantic Ocean, is disposed to disbelieve in open-front poultry houses and thinks that, maybe, in severe winter weather, artificial heat in the poultry house, to take the chill off, would be a good thing.

There are no really modern, practical open-front houses on this poultryman's plant; most of his buildings are rather out of repair, and about the nearest approach to open-front houses on the place are a few wire-fronted A-shaped houses with burlap or other curtains. There is probably quite a good deal of ventilation, however, as we should judge that the sea breezes would find little to hinder them from blowing thru the buildings. Such houses do not afford the protection that is provided in a deep open-front house that is tight on three sides and roof and that is not drafty. This poultryman, too, has always carried full-feathered, heavy fowl, but this season has a good many Leghorns. In spite of the fact that he has been tying up some of his best birds in bags, on severe nights, to protect their combs and wattles, he has had a good deal of trouble with frozen combs, wattles and toes. He has also been using a heated room to protect some of the male birds. We are inclined to believe that the treatment did not help matters much and only made the birds more tender and more likely to freeze in day time.

According to old-timers, this has been the most severe winter, here for forty years, and a weather reporter claims that the records show it to be the worst winter since 1826. However that may be, it has been cold enough, with plenty of long zero spells. We had a week of similar weather in January, 1914, when the mercury registered zero most of the week and hit 17 below one night and 28 below another. We had a lot of big-combed birds in open-front houses that winter and had very little trouble with them. We have wintered flocks of both American and English Leghorns in these modern open-front houses, with not as much difficulty from frosting as with birds in closed houses. Frost-bite is often a matter of condition. If the bird is a little off condition, it is more readily affected. We believe that more severe cases of frostbite occur from exposure to wind and cold in the day time than when the birds are snug on the roosts. Warm drinking water is a fertile cause of liability to frostbite. The birds get their wattles wet and scatter



BABY CHIX

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We all know how the small flock of chicks kept by the farmer's wife thrive and grow—no sickness—no trouble. Why? She feeds them skim milk—buttermilk—sour milk, and you can see them grow. It is impossible for everyone to have a home supply of milk products for their chicks. **Milkoline** solves the problem. It is made from pure, fresh buttermilk, modified and condensed for cheap shipping and easy handling. Just mix

1 Gallon Milkoline and 50 Gallons of Water

and you have the most healthful and cheapest feed possible. **White Diarrhoea is unknown where Milkoline is fed.** It is the ideal feed from the shell to the killing block. The backyard poultry keeper and the big packer both use it. **Young pigs and hogs thrive on Milkoline.**

Ask Your Dealer for MILKOLINE

If he does not handle it, do not delay ordering direct from us. We will deliver to you, all charges prepaid upon receipt of price. Book-let free for asking. Money-back guarantee.

Prices delivered to your station	
1 gallon.....	\$2.00
5 gallons in keg.....	1.50 per gallon
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need Nature's food—the perfectly balanced ration that Mother Nature and science say is perfect—

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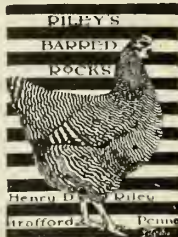
Name

Town.....

State

Riley's Barred Plymouth Rocks

The Strain that Produces Winners for My Customers



The hatching season is again here and you, of course, are planning to try and raise the finest birds possible. You naturally will turn to the breeder who you know has the stock, but your chief consideration will be the breeder who you know will sell you eggs from his very best stock. I will positively sell you eggs from every pen I have on my farm and all my pens are carefully listed in my Mating List for you to make your selection. My customer's records for the past 15 years prove that what I say is true, and they have hatched first and second prize winners at such shows as Madison Square Garden, Boston, Chicago, Philadelphia, Detroit, Buffalo, Guelph, Canada, etc. No other breeder of Barred Rocks can make this claim. The past season was no exception and many winners were hatched from my eggs.

The finest pens I have ever mated up are in my yards this season, all headed by proven sires or their line-bred sons. Send for my Mating List and be convinced that when you buy eggs from Riley you are: Buying from the best strain in the world. Buying from a man that has proved he sells his best. Buying from a man that does and will sell you his best. The opportunity is offered you and you will make the mistake of your life not to seize it. I have a few choice exhibition cockerels for sale at a bargain.

Henry D. Riley Box B Strafford, Chester County, Pa.

You Should Send 25c for Our New Poultry Account Book.

Eggs Baby Chicks Eggs

Yes, those peerless champions that startled competition by absolutely proving their superiority over all others at the **Greater Chicago Show, 1918**, (the American White Plymouth Rock Club Show), by winning every first, every second, every third competed for, all specials, championships, and grand championships galore are now mated and will keep the

Halbach Strain of White Rocks "The Proven Leaders"

in advance. We are offering both eggs and baby chicks from these and other classy birds. Write today for our special free Mating List. See how we can serve you. You can share with the greatest quality ever produced. Eggs \$3, \$5, \$8 and \$12 per 15.

H. W. Halbach & Sons R. R. 1, Sec. B. Waterford, Wis.

P. S.—A very choice collection of stock left at prices you can afford to pay. Write your wants fully. Let us help you make your birds pay.

the water about with head shakings; this wets down a number of birds besides the one drinking. Wet plumage, wet wattles and wet combs will freeze quickly. Exposure out of doors, or in a very drafty house, to chilling wind will invite frostbite. We always use snow in place of drinking water in extreme cold spells, if we can get the snow; it slakes the thirst of the fowls, they like it as well as water or better, it does not check egg flow, and it is less likely to wet the birds and result in frosting. We are still "from Missouri" when it comes to heat in a poultry house or the abandonment of open-front houses.

* * *

Back-lotters and others who have a surplus of eggs this spring season will be wise to keep the surplus and put the eggs down in waterglass. We would not sell the eggs if you can preserve and use them. Next fall and winter those surplus eggs will prove very desirable and useful, if properly preserved. We do not believe that eggs will be plentiful next fall and winter. Preserving eggs in waterglass is easy. We use large stone crocks, glazed ware, four-gallon size. These are cleaned thoroughly, scalded, and allowed to cool. The eggs are packed in the crocks, just as they come from the nests, using only clean sound eggs—a cracked egg may rot and spoil the whole lot. The waterglass solution is poured over the eggs, using enough to have the top layer of eggs about two inches below the level of the solution. To make the waterglass solution, mix one quart of liquid waterglass with ten quarts of water. The water should be boiled and then cooled before mixing. Be sure that the solution is cold before using to cover the eggs. Be sure that the eggs are clean, fresh and sound. Our waterglass preserved eggs have kept in splendid condition all winter. We do not use them for any but cooking purposes or as scrambled eggs, as we have plenty of new-laid eggs for boiling and frying. Before attempting to boil a preserved egg, be sure to puncture the large end with a needle, otherwise it will burst.

* * *

When eggs shipped in from a distance fail to hatch, do not be in haste to blame the breeder who sold them. There are many mishaps which may happen to eggs during transit that will spoil them for hatching purposes and may prevent them from even starting. Common transportation troubles with egg shipments are rough handling and breakage, also overheating from being placed near hot steam pipes or heaters. We have known some eggs to be partly cooked in transit.

* * *

It is all very well to feel good over the fine egg record of some phenomenal layer, or a highly productive flock, but we should remember that, to be fair with the producer, the consumer should pay a price for eggs based on the production of the average hen—and he should pay production costs plus a fair and just profit.

NEW INCUBATOR—FREE.

The Wight Co., D-67, Lamoni, Iowa, wants to give every reader of this paper a new \$5.00 incubator for just a few minutes' work at home. Write for special offer.—Adv.



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is located "in the heart of Philadelphia" near both railway terminals, the subway and surface cars and express offices. We offer strong, vigorous, pure-bred

BABY CHICKS Popular Breeds Popular Prices

Visit us if you can. **Inspect the chicks before purchase.** Carry them home without loss or delay. Or mail your order for quick shipment by **direct express.** In either case you will receive big value and the best of service.

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From pure bred, healthy, vigorous, heavy-laying strains. All our birds are raised on free range. Eleven years' experience in hatching and shipping chicks. **CATALOG FREE.**

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White's White Rocks

At the Illinois State Show, Peoria, 1918, I won 1 cock, 2-3 hen, 2-3-5 cockerel, 1-3 pullet, 1 old pen, 1 young pen, grand champion male all varieties, champion female White Rock class, all shape and color specials, and best display. I have won at Chicago Coliseum, Greater Chicago, Quincy, Springfield, Peoria and numerous other shows.

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at most reasonable prices from the finest matings in the country can now be ordered with our guarantee of complete satisfaction. Our birds have type and color that have proven correct. Our customers are winning with birds of our strain. Write your wants and we will gladly quote you prices. Send for my Calendar and Mating List.

NORTH HILL POULTRY FARM Box A, Washington, Ill.
MRS. LOUISA WHITE, Proprietor



The Best White Plymouth Rock at the Greater Chicago Show, 1918

Readers Experience Department

Mating Blue Andalusians.

Editor American Poultry Journal: Not seeing anything in regard to Blue Andalusians and their breeding, I have decided to ask you to help me out. I have had considerable experience breeding several varieties of poultry, but no experience with Andalusians.

I bought a sitting of eggs from a Western breeder and paid a good price. Hatched eleven good strong chicks. As they developed, four of them were blue, two were black, one was blue and black, two were blue and white, and two were blue and a light salmon color. I suppose those other than the four blue ones are "sports," or four out of eleven were O. K. and seven were "sports." Is this a good, average, or poor percentage?

Which is the best way to mate these pullets, with the blue cockerel or the black one, as I saved both? Which one will give the lowest percent "sports"? Will the pullets, namely, the black, blue and white, and blue and salmon, be all right to breed, or must only the blue pullets be used?

I have heard many stories in regard to mating this variety, but not by one who is of authority. Any information in regard to Blue Andalusians will be welcome.

Cobleskill, N. Y. Wm. M. Walker.
[Note.—The following reply is from Walter J. Coates, Secretary of the Blue Andalusian Club of America, East Calais, Vermont, and will interest all fanciers of Andalusians. This breed is one of the oldest, is classed among the thoroughbreds, and will always provide entertaining and profitable employment for the real fancier. Andalusians belong to the Mediterranean class, are midway between the Leghorns and Minorcas in size, are remarkably fine layers of large white eggs. They are hardy, grow rapidly, and possess excellent table qualities. The Salmon Breasted Blue Andalusian, originated by Mr. Coates, is a very interesting variety since it more nearly approaches the color scheme of the Blue Bird

than any other variety of domestic fowl. Could the combination of blue and salmon be intensified to more nearly approach the Blue Bird coloring, it would indeed be a wonderfully striking fowl for the fancier's yards.—Editor American Poultry Journal.]

Editor American Poultry Journal: Your letter at hand, enclosing letter from Wm. M. Walker, Cobleskill, N. Y., who wants information relative to the proper mating of Blue Andalusians and kindred subjects.

Being vitally interested in this subject myself—both as Secretary of the Blue Andalusian Club and as a breeder of this variety of about eleven years' experience—I am pleased to answer.

The Blue Andalusian—the one of the oldest and purest breeds in existence, being used, on account of its unmixed ancestry, for expert biological and inheritance research work in many leading college experiment stations—is an anomaly among other breeds so far as relates to its behavior in the breeding pen. This arises from the fact that its color, unlike that of other breeds, is composite. Blue is not a natural color in the realm of domesticated fowls; and, while it exists in nature, as exemplified in the plumage of many wild birds, it is doubtless even there a result of the accidental mixing of natural colors. So far as the best breeding experience can teach us, blue plumage—as in the Andalusian—is due to a carefully planned combination of the three following colors: Black, white, and red.

But since black is a dominant color, while white is a recessive or negative one, it would become necessary—in creating a blue color scheme—to first break up the potency of the black pigment by mating it to another potent color, viz., red. Then by crossing this offspring of a black and red mating to a white color scheme, one ought to secure a resulting fowl of blue color.

We come then to Mendel's law of heredity, which—in the breeding of Andalusians—is de-



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First cock and crkl, Madison Sq. Garden, 1916-17-18

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Prove Their Class

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New York Garden	Boston
1st and 4th Cockerel	1st and 5th Cock
1st Hen	1st and 2d Hen
2d and 3d Pen	1st and 4th Cockerel
5th Cock	2d, 3d and 6th Pullet
	1st Pen

Eggs for hatching. Mating list free. Stock for sale.
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All Varieties—Standard Poultry, Ducks, Guineas, Games, Pheasants, Peafowls, Thoroughbred Dogs, 2,000 vigorous farm raised fowls for sale reasonable. Bred-to-lay trap-nested stock. Exhibition, Breeding and Utility fowls, Eggs and Chicks.

Any quantity. Satisfaction guaranteed. Circular 2c.
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YOUNG'S STRAIN

Single Comb White Leghorns



FIRST PRIZE COCKEREL, BOSTON, 1915
BRED AND OWNED BY D. W. YOUNG, MONROE, N. Y.

∴ I HAVE NO OTHER BREEDS ∴

Add another phenomenal win at the Madison Square Garden Show, January 1st, 1918:

- 1-2-3 Cocks 1-4-5 Hens 1-3 Pens
- 1-2-3-4 Cockerels 2-3 Pullets

AND EVERY SPECIAL PRIZE OFFERED

The one strain that has made good. This is the eighteenth consecutive year that I have won best display and nothing less than 3 firsts and from that to every 1st, 2nd, 3rd, 4th and 5th. This is a record never accomplished by any other breed or breeder in the world. Young's Strain has outclassed itself in quality this season. My birds have never been so superb or shown such perfect health and form. They have won 1st prizes in every state in the Union and in every country in North and South America. This strain is acknowledged thruout the world as being the standard for all the Leghorns and the leaders of heavy layers. They have always been bred and selected for heavy laying alone and the show specimens have been chosen from the layers. This is the only original line-bred strain of utility and exhibition Leghorns in America today. Why not come to headquarters and get the best? Hundreds of grand cockerels that will improve your flock for utility and exhibition purposes for sale at reasonable prices.

MATING LIST—describing 65 pens and price of eggs—FREE

D. W. YOUNG Box E-12 MONROE, N. Y.

DAY-OLD CHIX DUX

Direct "from shell to you", full of vim, vigor and vitality. Right near express office, no long waits for train time. HOGAN SYSTEM of selection used 20 years; HEAVY LAYERS. One customer's profit, \$3.00 per head last year. 32 years of expert breeding along practical lines. Capacity 500,000. 1c each up.

Special Prices to Wholesalers. Latest, improved methods used in hatching.

Rox, Reds, Wyandottes, Leghorns, Anconas, Pekin and Indian Runner Dux.

Order Now! Circulars Free!

W. R. CURTISS CO. Ransomville, N. Y.

Applecock Barred Rocks



EGG—LINE—BRED

Win Sixth Storrs Laying Contest

Total 2119 Eggs

Breeders in our pens with these Storrs Official Records

Champion 277 Eggs

Pen records - 220 to 243
Pen records - 200 to 220
Pen records - 187 to 200

1918 Mating List on Request

APPLECOCK FARM FITZWILLIAM, N. H.



Aluminum Marker Works, Dept. J, Beaver Falls, Pa.

Neubert's Masterpiece

The incubator with a 25 years' efficiency record. The highest quality hatcher, built by pioneer incubator men, now sold at a lower price than ever. Our book will save you many dollars. It's free. Write for it today.

NEUBERT INCUBATOR CO.
Mankato Box 40 Minnesota



BANTAMS America's Finest Bantams. 40 varieties. Game and Ornamental. Shipped on approval. Winners at the largest shows. Stock for sale. Prices reasonable. Cat. 2c. My Louise Ointment, eradicates lice 1 yr. with 1 application Formula \$1. F. C. WILBERT & CO. Grand Rapids, Mich.

Partridge Rock Eggs

\$7.50 for 100, \$4.00 for 50, from range flock. From pedigreed pens a matter of correspondence. Baby chicks twice the price of eggs. Place orders early. No Sunday business.

MEADOWLAWN FARM Dept. C. D. SAND CREEK, MICH.

60 BREEDS chickens, ducks, geese, turkeys, guineas, Collie and Fox terrier puppies. Hatching eggs and stock my specialty. Large, illustrated catalog free. Yours is ready. Write for it today. Edwin A. Souder, Telford, Pa.

terminative of all results to be obtained in the mating of this breed. Mendel's law may not always hold precisely true in every mating of Blues; but it will always hold approximately true. Some variation is doubtless due to the suppressed red pigment in our blue plumage, and some variation must be allowed in favor of the dominating black pigment. Blue is the recessive or resultant color—not the original or dominant one.

Blue mated to blue is supposed to produce 50 percent blue chicks, 25 percent black, and 25 percent splash white. "A splash white" is a white bird having splashes of blue or black feathers interspersed thruout its plumage.

Three distinct matings—the three matings preferred by our best exhibition fanciers—belong to the category above given of blue mated to blue.

1. Standard exhibition blue males mated to standard exhibition blue females. Ground color should be clean and lacing distinct in every section of birds so mated. Also in the two following matings.

2. A male of dark even blue ground color and distinct wide lacing, mated to females of very light blue ground color and narrow lacing.

3. A male of light even blue ground color and narrow lacing, mated to females of very dark blue ground color and heavy or wide lacing.

Black mated to splash white is supposed to produce approximately 100 percent blue offspring. This mating is much used and preferred by the breeders of utility Blue Andalusians, but is in some disfavor among many fanciers, because the resulting offspring are apt to lack in evenness of ground color and in uniformity of lacing. The combinations used are:

1. A splash white male mated to black females.

2. A black male mated to splash white females.

The breeder should, of course, be careful to select specimens of proper shape or type for his breeding pens, remembering that "type makes the breed, while color makes the variety."

The occasional "sport" offspring that shows salmon brown, or red, or golden brown, in plumage should not be used in the breeding pen by a novice; and, in fact, the main value of such birds consists in the variation in color which, when handled properly by an expert breeder, often results in the creation of a new variety. I have, myself, been experimenting along these lines for several years and I have perfected a strain of Salmon Breasted Blue Andalusians which are breeding remarkably true to color. I also have a Partridge variety in the making.

Those interested in Andalusians, for the very low expense of one dollar membership fee, can become members of the Blue Andalusian Club and thus receive from authoritative sources any further information concerning this breed that they may desire.

East Calais, Vt. Walter J. Coates.

Favors the Dominiques.

The Dominique is the oldest American breed—much neglected, yet still here. Just now in these days of high cost of living, the Dominique will find a place in the front ranks for they will produce more eggs and meat at less cost than any breed I know of.

I have been breeding Dominiques for the past five years and find them the best all-purpose fowls, being especially well adapted for the farm and the back-yard poultry keeper. Double mating is unnecessary to breed show birds of this variety. I select my best birds for the breeding pen and rarely have more than 5 percent culls in the offspring. The Dominiques keep up their size without extra forcing. I have tried other varieties and could not get 10 percent good fowls, many of them difficult to keep up to Standard weight.

The Dominiques breed true to color, size and type with plain common sense feeding. I am now feeding oats in the litter in the morning and corn at night, all they want to eat. I do not measure out a given quantity, as sometimes they eat more and sometimes less, according to the weather and how they are laying. I feed cut bone and greens as often as I can get them and they appear to relish these more than anything else.

This past winter I have kept a flock of old birds, some of them three years old, and they have given me a 40 percent egg yield from

White Plymouth Rocks IN THE SOUTH

I have 9 hens with records above 200 eggs and 3 males from 200-egg hens that I will sell for \$75.00; or 3 hens and 1 male for \$25.00. Here is a grand opportunity for someone.

F. B. ANTHONY

LUMPKIN, GA.

The Service that Satisfies

A report from Maine.

"O. C. Frantz:—

The 50 eggs I bought May 14, hatched 46 chicks, raised 21 pullets; Oct. 11th they began to lay. From Nov. 1st to present date (Jan. 6th) I have gathered 10 to 17 eggs per day." *Our Leghorns Lay in Winter. Our Eggs Hatch regardless of distance shipped. See Adv.*

Osee C. Frantz
Rocky Ford Colorado

ROCKDALE

White

Better Bred for 17 years—By Us

Plymouth Rocks

Cockerels—Pullets

A few very nice ones still for sale at reasonable prices. Satisfaction guaranteed.

Eggs for Hatching

from birds backed by years of breeding for eggs, meat and show points. No baby chicks.

Our birds win everywhere

DEVOE'S Station 1 DODGEVILLE, WIS.



WARNOCK'S Single Comb Brown Leghorns

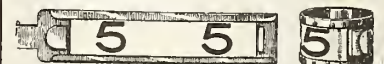
Old Glory 7th

are now mated. My yard contains my winners at Chicago, Milwaukee, Iowa State and Davenport, Iowa, shows. Two yards each of light and dark brown eggs, \$3 and \$5 per 13. Utility free range flock \$6 per 100. Send for mating list.

W. G. WARNOCK Geneseo, Ill.
R. F. D. No. 4, B 98

BOURNE LEG BANDS

Are Easy to Use. They are made with large numbers printed on colored celluloid held in an aluminum band.



They are easily read from a distance. Numbers up to 300 are printed on white, red, green, cerise, blue, yellow and pink celluloid. From 301 to 1000 on white only. Band will withstand weather and water. Sizes for all breeds; also for pigeons.

BOURNE MFG. CO.
231 Howard St. MELROSE, MASS.

SINGLE COMB

Rhode Island Reds

that have been winners in some of the leading shows such as State Fair, State Show, Quincy and Decatur. Stock and Eggs in season. Mating list is now ready.

HARRY McPEEK R. F. D. 1 Moweaqua, Ill.
Formerly McPeck & Sparling

Mention the American Poultry Journal when writing to advertisers.

November first up to the present date (January 19). I am getting a 50 percent egg yield from pullets which started laying about Christmas time. The Dominiques are small eaters, but I have to admit I did not make from \$3 to \$7 a hen profit during the past year, as some claim. I have been selling eggs all winter for 60 cents a dozen. Corn is now \$4.50 per hundred pounds, and oats are \$2.10 for a seventy-pound bag. I figure I made \$1.73 per bird over feed cost the past year.

The Dominique is a very good mother, yet is easily broken up if not wanted for hatching. I use open-front coops. The pens are 8 x 18 ft. and the front 6 ft. high. The front is closed up to a height of 3 ft. and the other 3 ft. covered with wire the entire length of the house. I have only had one Dominique with a cold since I began keeping them five years ago. I find the first hatched chicks to be the strongest and best. It is very rare to have early hatched chicks die off as later ones sometimes do. I believe early hatching pays in more ways than one.

The Dominique has not been favored by widespread popularity as many other breeds have been, perhaps because there is not so much money back of them, yet I believe that in these days when true worth must come to the front, the good old Dominique will come to be known and bred for its great economic value as a farmer's or back-lot fowl.

Wortendyke, N. J. D. Baker.

Profit in Poultry.

Since the middlemen are taking the lion's share of the profits in poultry keeping at the present time they are aiding in driving individual families into raising their own supply of poultry in the back yards. Any man with a small back lot or village yard can raise and care for from twelve to twenty-five chicks, and keep over as many adult fowls, and by so doing cut down materially household expenses while at the same time providing one of the best foods for his family.

Poultry meat is at the present time the cheapest meat on the market. I have just bought beefsteak at 68 cents a pound. In the same market chicken is selling for 40 cents and fowls for 35 cents. Why this great difference? Don't lose courage, boys, the time will come when these matters will be righted.

Natick, Mass. I. K. Felch.

Editor American Poultry Journal.

Dear Sir—Frequently seeing the question asked as to how long hens should be parked with the male before using the eggs for hatching, I should like to give a bit of my experience. On March 6th, 1917, I purchased three Light Brahma hens which had been with Barred Rock males. These I parked with a White Rock cockerel. I began getting eggs the next day, March 7th, and continued for some weeks, getting on an average two eggs per day. These I set under hens as rapidly as I had sufficient for a setting. All the first hatching were black and feathered out genuine Barred Rocks, not to my surprise.

I continued setting all eggs until late in June, and all hatched were Barred Rocks, like the first. I got good hatches, from twelve to fourteen from fifteen eggs.

These hens each became broody several times during the season and I broke them up as soon as possible and had them laying again in a short time. In August they all took a rest from laying for several weeks, but by the last of the month were all laying again. I set these eggs as soon as I had a setting, as an experiment to see whether I would get white chicks, but to my surprise, when they hatched September 27, all were Barred Rocks, just as all the others had been.

We had no Barred Rocks on the place and the hens were parked all summer. I do not see how the white male with which I had them parked had anything to do with the hatching of the chicks thru the entire season of six months.

STELLA SHROCK.

Peru, Ind., R. R. 3.

Twenty million baby chicks are offered for sale to grow war time flocks. Have you placed your order? If not, why not? Get a baby chick catalog and place your order as soon as possible.

Hip! Hip! Hooray!

VICTORIOUS AGAIN

Victorious in the Largest Barred Rock Show of America

This time the glorious ARISTOCRATS win out at that mighty NATIONAL BARRED ROCK CLUB SHOW, HELD AT CHICAGO

the entire nation's big club show—the Barred Rock show of all America.

And above everything else stands out this powerful fact: These great winnings were made with Aristocrats by my customers. Think! My customers are able to make such magnificent winnings with Aristocrats in competition with all those big, notable Barred Rock breeders and advertisers who showed their birds at Chicago. One of my customers alone carried home six ribbons, four on Aristocrat stock purchased from me, and two on Aristocrats which he hatched from Aristocrat eggs purchased last spring. (By the way, those same identical matings which produced these winners at this great show are again mated up and my customers are receiving eggs from them.)

It is the breeders who are raising ARISTOCRATS who are making the money. Aristocrats are possessing this greatest, best-paying combination of all: They are great show chickens, great market chickens and great layers—with many individual records of over 200 eggs per year and as high as 260 eggs in one year.

Therefore, while you are breeding and raising chickens, why not breed, feed and raise THE BEST? Why not? It costs no more to feed and raise the very richest Aristocrats than to raise scrubs. Think!

I can help you out with wonderfully rich breeding cockerels, pairs, trios and pens—for the most magnificent collection of Aristocrats I have ever had is in my yards right now. Write me your wants and I will help you. Every Aristocrat is guaranteed to be absolutely satisfactory or the full purchase price will be refunded.

Eggs from matings which are producing such wonderful specimens (including eggs from the same matings which produced the above great winners) \$10 for 15; \$25 for 50; \$50 for 100. Big, beautiful new catalog just off the press.

W. D. HOLTERMAN, Fancier Box A, FORT WAYNE, INDIANA, U. S. A.



Premier Partridge Wyandottes and Rouen Ducks

DISTINCTIVELY INDIVIDUAL

Winners of highest honors for the past eight years at America's greatest show, Madison Square Garden, New York.

Premier Baby Chicks and Eggs for Hatching from Our Prize Matings

Ready for shipment March 1st : Book your orders early

BABY CHICKS		EGGS	
Each	\$ 1.00	Per 15	\$10.00
Per dozen	10.00	3 settings	25.00

Send for our 1918 Mating List

SHEFFIELD FARM H. B. Hark, Mgr. GLENDALE, OHIO

Barred Rocks Pullet Line EXCLUSIVELY Again they Win

At Dayton, O., Dec. 10-14, 1917, 1st, 2nd and 3rd Hens, 1st Pullet, 2nd and 3rd pullet-bred cocks. At Columbus, O., Jan. 1-5, 1918, 1st and 3rd Hens, 2nd pullet-mated Pen, and Best Display of Females. At Springfield, O., Jan. 7-12, 1918, 1st, 4th and 5th Hens, 3rd Pullet, and 1st pullet-mated Pen.

Eggs from exhibition pullet matings \$4.00 per setting; utility eggs \$1.50 per setting; \$6.00 per hundred. Send for mating list.

LEIGH BICKETT, Rural Route 9, XENIA, OHIO

EGGS BUFF PLYMOUTH ROCKS STOCK

The Old Reliable Breed for Eggs and Meat. They Lay, Weigh and Pay.

WINNINGS: Chicago Coliseum, 1917, 1st cock, 1st young pen, 2nd and 3rd pullet, 3rd cockerel, 3rd hen. Boston Quality Show, 1918, 1st pen, 1st 2nd and 5th cockerel, 1st, 2nd and 4th pullet, 3rd, 4th and 6th hen, 1st cock. Championship Male, Championship Female and Best Display.

EGGS FOR HATCHING, \$5 PER 15. 25 choice breeding cockerels and pullets for sale, \$5 to \$25.

FRANK J. NUTTING

BRANDON, VERMONT

HOW TO USE COLONY BROODER STOVES.

Easy, Economical and Successful Method of Raising Chicks.

By JOHN W. DWINELL, Danvers, Mass.

WHILE attending the Boston Show in 1914, I became interested in coal burning brooder stoves. Previous to this time I had used several kinds of lamp hovers with little satisfaction. The labor-saving features of the coal brooder at once appealed to me and I spent most of my day at the show listening to the claims of the different salesmen, and examining the stoves very thoroly.

I returned to the show the next day and before going home I had placed my order for what, in my own judgment, was the best stove. Right here I want to say to the prospective purchaser that a great deal of trouble can be saved by making a careful selection. In the first place, don't have a damper in the funnel; be sure the stove has a two-piece rocker grate, easily removed, and a fire box that is wider at the bottom than at the top. In shaking down the fire, as the coals settle, they are loosened by falling into a larger space and the result is a much more freely burning fire. Buy the largest size stove offered, for a dependable fire cannot be run in too small a fire pot.

After I purchased a stove, I placed it in a 10x10 ft. portable house, with 6 ft. posts of an A-shaped roof (9 ft. from sill to peak). This house has two windows, hinged at the bottom and opening inward, which are opened and closed as the weather conditions require. These windows are in the south side of the house, as is also the door. A cotton screen forms the top half of the door, thus insuring fresh air at all times, which is essential to the well-being of chickens.

Sand is the only litter used. The top is frequently scraped off and replaced by fresh sand, thus keeping the litter

sweet and clean. After the stove is set up and the litter put in, the stove should be run for from three to five days before the hatch is due. This gives one time to become acquainted with the stove and thus avoid mistakes which

might prove expensive when the chicks are under the hover.

For extra early broods I would recommend a house 10 x 20 ft. with a solid partition in the middle which would supply an unheated scratch shed. In



First prize and champion White Plymouth Rock pullet, Chicago Coliseum Show, 1917. Owned by U. R. Fishel, Box A, Hope, Ind.



U. R. FISHEL HOPE IND.

You Want the Best—Buy Now

while you can secure the very best possible in poultry, and especially can you secure *blood lines and quality* that can not be found elsewhere. The best general purpose fowl is

U. R. Fishel's White Plym. Rocks

For over a quarter of a century they have been winning the leading prizes at Six International World's Fair Expositions and Twelve State Fair Expositions, and also at Chicago, St. Louis, Hagerstown, Md., etc.

BACK YARD FLOCKS

Male and five females... \$20 Male and 12 females... \$35

EGGS FOR HATCHING

Sale flock eggs..... \$15 per 100, \$8 per 50
Yard eggs..... \$5 to \$75 per 15

BABY CHICKS

\$35 per 100 \$18 per 50 \$10 per 25

MATING LIST FREE



U. R. FISHEL HOPE IND.

SELECTED BREEDING PENS GREAT VALUES

Male and 5 females..... \$25, \$35 and \$50

STRONG, HUSKY, FARM REARED MALES

Utility..... \$5 each
Selected breeders..... \$8, \$10, \$15 and \$20

The U. R. Fishel White Plymouth Rocks will give you better results than any fowl.

U. R. FISHEL

Box A

HOPE, IND.

the houses which we use, the chicks are placed under the brooders between March 25 and April 5th, and, of course, have access to outdoor runs very soon thereafter. I believe that very early broods would require a scratching shed for best results.

At hatching time we allow the chicks to remain in the incubator until thoroly dry. They are then placed under the hover and not fed until 60 to 72 hours old. I allow not more than 350 chicks to one stove. With this number we have been most successful.

The temperature under the hover should be 90 degrees. After the first ten days the temperature is reduced to 80 degrees, which temperature is maintained until the chicks are removed from the brooder house. It is best to maintain an even temperature under the hover after having once acquired it. Rather than meddle with the adjustments after they are satisfactorily made, let the chickens adapt themselves to the heat by moving in and out, as required by climatic conditions.

When three or four days old, if the weather permits, the chicks are allowed to run outdoors. For this purpose a little opening is made in the south side of the building. A draft board 5 feet long and 18 inches high is set up between the stove and the opening to keep drafts from under the hover.

The chicks are fed a good clean commercial chick feed, a little at a time and often until they are ten days old. A good commercial growing feed, containing 10 percent beef or fish scrap, is then placed before them in hoppers and kept before them until housed for laying. The chick food is also fed until the chicks are old enough for the intermediate food.

Plenty of fresh, cold water, grit and charcoal are kept before the chicks during the entire period of development. During February and March sprouted oats is supplied daily for green food, after which time the chicks have access to grass runs.

I have found this method of brooding most satisfactory and economical. The average coal consumption is 15 to 20 pounds of nut coal for 24 hours. The time required to care for the stove is from 10 to 15 minutes a day. The results are very satisfactory. I raise 90 percent of chicks put in the brooders and the chicks mature quickly and uniformly.

Some excellent bargains in breeding stock, eggs for hatching, baby chicks, incubators, brooders and poultry equipment will be found in the advertising columns in this issue. Look them over and send in your order soon. "First come, first served" will be the rule this season. If you intend to buy, do it *now!*

Bought that incubator and brooder yet? Better get busy and order today. At least get the catalog and plan for the equipment you will need the coming season. Get your order in early.



BABY CHICKS

Single Comb White Leghorns

For Foundation Stock and Flock Improvement

Have you a flock at the present time? If you have not, common sense tells you that the highest producers are the cheapest. If you have, you very likely have room for improvement in their egg-laying ability.

Come to Me - I Can Help You

Idylwild White Leghorns are a dyed-in-the-wool laying strain, founded from stock purchased from the most famous laying strains in the world. It is better to buy 300 chicks of this breeding than 600 from a haphazard mating. Remember, they are all from trap-nested, pedigreed, high-record stock.

EGGS FOR HATCHING

We also sell eggs for hatching in case you do not want baby chicks. Our eggs, stock and chicks are securely packed in the best method and will reach your safely. We guarantee 90 percent fertility on our hatching eggs.

Send for our handsome catalog and mating list.

IDYLVILD FARM W. S. POORE, Prop. SHERIDAN, ILLINOIS



Here is the Feeder and the Fountain

for which every poultryman has been looking.

It combines all the good qualities of the ordinary Mason jar fountain and feeder with the good qualities of the best baby chick feeders on the market. The bottom of the feed pan slopes from the center to the edges, thereby insuring a free flow of feed from the jar to the edge of the pan, where the chicks can reach it thru the openings. The small openings prevent dirt from getting into the pan—prevent the chicks from getting into the feed or water and prevent them from crowding too close around the feeder, thereby giving the weaker chicks an equal chance with the stronger ones. This overcomes every objection to the ordinary open pan Mason jar feeder and fountain. It fits any Mason jar.



2 for 35c

3 for 50c

The top of the pan can be removed in a second to clean or fill. It is the most inexpensive, most practical and most sanitary feeding and watering device on the market and is fully covered by U. S. letters of patent. If ordered from this ad we will send them postpaid to any address in the United States. **SIMPLEX SUPPLY HOUSE 1300 Pontiac Bldg. CHICAGO, ILLINOIS** Send for our complete Catalog of Poultry Supplies and find out about our marvelous Feather Brooders; also Automatic Grain Feeders and Non-Freezing Water Fountains.



Here's the Doctor

to help you serve your country and fill your needs
Our "Efficiency" Chicks

Never before in the history of our country has there been such a demand for poultry. Our Allies are calling for more and more food. Our own soldier boys must be fed to keep them in trim to fight our battles. We must raise all the poultry and eggs possible. Our "efficiency" chicks are the kind that meet those needs. Letters from our old patrons tell us how well our stock is doing for them. And our prices are surprisingly low. Ask for our catalog, which tells you all about them and the varieties we supply.

CLYDE CHICK HATCHERY

Box A-21

CLYDE, OHIO

HATCHING EGGS

from our bred-to-lay

White Wyandottes

Our pens this year are headed by the best males we have ever owned - vigorous, prolific birds of standard type.

EGGS 15 for \$1.50 | 50 for \$5.00
30 for 3.00 | 100 for 8.00

MILLS CREEK POULTRY FARM, W. J. Forrest, Prop., EAGLEVILLE, OHIO



White Orpington Breeders: JUST STOP AND READ THIS—

BOLSON'S UNITED COLORPLATE S. C. W. ORPINGTONS win this season: St. Paul, Minn., 1st Cock, 1st Cockerel, 1st Old Pen, 1st Young Pen, 2nd Hen, 2nd, 3rd Pullet; Charles City, Iowa, 10 birds entered, 1st, 2nd Cocks, 1st, 2nd Cockerels, 1st, 2nd Pullets, 1st, 2nd, 3rd Hens, Silver Cup for Best Hen in Show, Silver Cup for Champion Pullet in Show.

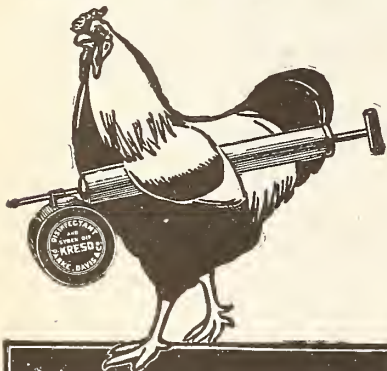
50 big snowy white cocks and cockerels at \$5.00 each, and remember, 1 ship C. O. D. EGGS - from six of the finest exhibition matings in this part of the state, at \$3 per 15, \$5.75 per 30, \$9 per 50, \$16 per 100. My matings contain all of this season's winners and others. My strain was originated from the best blood in the world - the Aldrich Strain. I personally guarantee that from no other breeder in all America can you obtain eggs for hatching from such high quality pens at such a reasonable price. Think it over! Order direct, as I will have no mating list this season. Eggs shipped C. O. D. also.

L. C. BOLSON, R. 7, DECORAH, IOWA

POULTRY

MUST HELP

FEED THE NATION



KRESO DIP No. 1.

A SANITARY NECESSITY

IN RAISING

HEALTHY POULTRY

KILLS LICE AND MITES.
WILL HELP STOP LOSS FROM DISEASE.

One Gallon
Makes 72 Gallons

of Solution ready for use.

EQUALLY GOOD FOR ALL LIVE STOCK.

Write for Free Descriptive Booklets on
Poultry and Livestock Sanitation.

ANIMAL INDUSTRY DEPARTMENT OF

PARKE, DAVIS & CO.
DETROIT, MICHIGAN.

REGAL STRAIN

White Wyandottes

Won at Terre Haute, Dec., 1917
on 9 birds entered, 1 cock, 1 hen, 1-2-3-4-5
cockerel, 1-2 pullet.

Breeders—Utility Stock
Eggs for Hatching

Write me your wants and send for mating
list. I have the quality, the prices are
right, and I can please anyone.

H. R. STEVENS HYMERA, IND.

JENSEN'S

LAYING LEGHORNS

TRAPNESTED FOR SEVEN YEARS

THEY WIN. At Waukegan, Ill., Nov. 30—
Dec. 4, 1917, I won 1-4 cock; 1-4 pen; 2-3-4 hen;
2-3 pullet.

THEY LAY. In my pens are hens with
records as high as 230. Every hen in my five
best pens has a record of 200 or more.

Eggs—Baby Chicks

from this exceptional stock. Safe delivery
guaranteed, and I aim to give satisfaction to
everybody. Write for prices.

CARL J. JENSEN : North Ave., WAUKEGAN, ILL.

Why Chicks Die in the Shell and How
to Prevent It.

HOW many high priced eggs have you lost in incubation this season? Poor fertility and poor hatches soon run into a lot of wasted money. Everyone has had more or less chicks develop almost to the hatching day. Some even pip and then die in the shell. This, of course, makes one wonder if their incubator is at fault. No! dear reader, it is not, in most cases. The main cause of your loss lies in the operation of your machine; the care, feed and housing of your breeding stock; the selection of your breeders and a lot of other similar mistakes of your own. The mating and breeding of your stock, together with feeding and housing are the "big four" things necessary to be done right if you ever expect to have good fertility and good hatches. Right at this season of the year the "two things" which you "must do and do right" is hatch and brood the chicks without mistakes. Can you do it? Have you done it? It's better to be sure than sorry.

Several hundred of our readers have sent to Professor Quisenberry, President of American School of Poultry Husbandry, Box 206, Leavenworth, Kansas, for a copy of his new bulletin on "Solving the Poultry Feeding Problem." This tells how to cut down the cost of poultry food and gives many helpful suggestions, which every poultryman should practice this season. It also tells how to feed the breeding stock to get fertile eggs and makes some suggestions on how to brood young chicks. They also send you their 64-page book "Dollars and Sense in the Poultry Business," which tells how they teach every phase of poultry raising by mail and fully describes the complete poultry library of thirty-eight books and lessons, which they send free to every student. Our readers also found that Prof. Quisenberry and his entire corp of assistants stood ready to give advice on personal poultry problems, so most of them decided the cost of taking the course in this correspondence school was so small and the benefits so great that they could not afford to do without it.

Here is a sample of what some of those students say: "I can now save enough on feeds to pay for the entire course."—F. M. Hill, Illinois. "I would not take the price of the whole course for the lessons on breeding and mating."—F. L. Noyes, Utah. "I could have saved about \$400 had I taken your course before I started."—Frank Sawyer, Massachusetts. "The knowledge I have gained from the disease lesson is worth the price of the course."—Geo. W. Morris, Kentucky. "I have been in the building business for 30 years but your lesson on Poultry House Construction is the best I have ever seen."—E. M. Wiggin, Kansas. "Your lesson on baby chicks is just what we have been looking for. Last year we lost 650 chicks out of 1,500. This year we lost 65 out of 1,600. This is the result of just one of your lessons."—Geo. M. Jones, California. "I have read so many different things and people



Light Brahmas

At Cleveland we won

1st and 2d Cock 1st Hen
1st Cockerel 1st Pullet

Exhibition and Breeding Stock
from blue ribbon winners at reduced prices. Write

GEO. C. WRIGHT & SON
2335 Riverside Road Lakewood, Ohio

TRADE **AEM** MARK
THERMOMETERS
NEVER VARY

"AEM" Embossed on a Thermometer "AEM"
IS YOUR GUARANTEE "AEM"

that you are buying a skillfully made and Absolutely Accurate Thermometer back of which is 53 years experience.

When you, readers of the Journal, buy an Incubator or Brooder, be sure it's equipped with an "AEM" Thermometer, and then you'll be taking no chances on your hatch being chilled or "cooked" to death.

WHY MILLIONS OF CHICKS DIE IN THE SHELL

It's because of imperfect moisture regulation—Use an "AEM" Hygrometer and you'll always know exact amount of moisture in your incubator, and get far bigger hatches of bigger, healthier chicks.

BUY FROM YOUR DEALER

If he can't supply you with an "AEM"—refuse every other kind and order direct. Write today for Free Illustrated Booklet and complete price list.

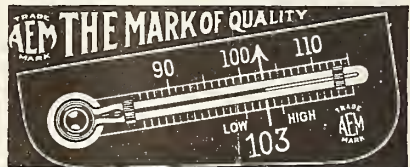
OUR POST-PAID PRICES

"AEM" Thermometer for any incubator.....	\$.90
"AEM" Thermometer with patent electric light attachment.....	3.00
"AEM" Certified Thermometer.....	1.25
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"AEM" Brooder or Hover Thermometer.....	.90
"AEM" Electric Alarm Thermometer.....	6.00

Special Prices in Quantities

We make more than a thousand different thermometers for all purposes.

A. E. MOELLER, 263 Sumpter St., BROOKLYN, N. Y.



Chicks 100,000 For 1918

Barred and White Rocks, White, Brown and Buff Leghorns, Rhode Island Reds, Broilers, White Wyandottes, Black Minorcas and Anconas. Hatched from pure bred, healthy, heavy laying stock. Lowest Prices. Satisfaction Guaranteed.

Write today—Catalog Free

E. H. UHLE

2061 W. 87th St., CLEVELAND, O.

Strong Day-Old Chicks

Laybilt s. c. w. Leghorns

Large, great layers, pure white.
Selected Hatching Eggs

EVERFRESH EGG FARM IONIA, MICH.

BABY CHICKS

Orpingtons, Rocks, Reds, Wyandottes, Minorcas, Campines, Anconas and Leghorns, 12 to 15c each. Broilers \$12 per 100. Pound pullets and cockerels a specialty. Chicks ready for delivery in March. Booking orders now. Satisfaction guaranteed.

DELAWARE HATCHERY

DELAWARE, OHIO

have told me so many different things that it was always confusing until I sent to headquarters, the American School of Poultry Husbandry, and I am glad to say I have always gotten the best of attention at their hands and always the best of advice—advice that has made and saved me hundreds of dollars. I don't know what I should have done without those good people.”—Mrs. Jerry Robinson, Mississippi.

This free bulletin, “Solving the Poultry Feeding Problem,” and their big book, “Dollars and Sense in the Poultry Business,” have just been written and published by Professor Quisenberry and will be mailed free to any of our readers who will write to the above box number and enclose ten cents in postage or “just a dime” to pay the mailing cost. Don't overlook the opportunity and write at once before their last edition has all been given away.—Adv.

New American Breed—The Patriots.

WHEN reading my January number of the AMERICAN POULTRY JOURNAL, I saw an item wanting breeders to say a few words about their favorite breed. I think it was a good and generous offer, and I shall accept the opportunity. As the originator, with the very valuable assistance of Mr. Henry Schultz, I should like to say a few words concerning the new American breed, the Patriots, which is ready for the public.

There are two varieties of the Patriot, one variety having every feather containing the three national colors—red, white and blue. The other variety has red head and breast, blue body, white tail and wings. Both varieties have yellow legs and skin.

About ten years ago I had an idea that if several of our best breeds were so mated that all the good qualities of each could be molded into one, it would be worth trying for. I dare not look back for any length of time on the disappointments, time and expense, but when I view the results of these long weary years I surely feel proud of what has been accomplished. I wish to make a very broad statement right here at the start. It is as follows: Every female that was used in this new breed had a record of 300 eggs. I certainly realize that the above is rather unbelievable; however, it is true. Of course, you will have to take my word for that, but I have the Patriots back of me and they will prove my statements. I also used non-setters as much as could be done, considering the use of eight of our best breeds.

I wanted something new in color, something new in meat, something that would be an A-1 table bird (short meat, not long and stringy). I wanted a bird that would weigh a little better than the Plymouth Rocks and one that would not spend one-third or more of its time setting on the nest. Also a bird that would lay at all times of the year and not shut off tight for a long spell. I have had Patriots laying every other day during molting—it is bred in them—they can't help it. I desired a breed that would lay a large egg. Patriots' eggs will weigh 29 to 31½ ounces to the dozen. All these things I have accomplished, and will prove it by the results of years of breeding. I could fill this page with interesting results of my experience in breeding and feeding.

R. H. BARNARD, Westboro, Mass.

We Can't All Carry a Gun

but we can nearly all assist our country in one way or another. One of the most important ways is to raise poultry for

**Brown and Wh. Leghorns
Barred and White Rocks
Reds White Wyandottes
Orpingtons**

Meat and Eggs

and thereby not only help feed ourselves and others, but be able to realize a profit in so doing. Twenty-eight years of untold effort in trapnesting and pedigreering Sunnyside Birds have been productive of a strain of

profit-producing fowls, and we are herewith offering the result of our work.

Eggs and Baby Chicks

bred from trapnested, pedigreed stock—the only kind of birds that are worth raising. Book your order now so as to avoid much disappointment.

Breeders

Trapnested stock, regular \$5.00 values, birds that will give you an opportunity to make good profits selling hatching eggs, with records of

180 to 200 eggs, each	\$3.00
210 to 248 eggs, each	\$4.00
Pedigreed 200-egg cock birds.....	\$5.00 to \$8.00 and up
180 to 200 egg pullets	\$2.00 to \$3.00
Cockerels, according to records of dams.....	\$5.00 to \$15.00



Hatching Eggs

We guarantee safe delivery, and send you the same eggs as we use ourselves. Prices for January delivery and after:

From hens with records of 180 to 200 eggs	
100 eggs; any variety we have	\$10.00
200 eggs; any variety we have	19.00
From hens with records of 200 to 248 eggs	
100 eggs; any variety we have	\$12.00
200 eggs; any variety we have	23.00
Eggs from Show Birds and Record Layers combined.....	\$3.00 per 15

Baby Chicks

same high quality as our other stock, and we have kept our prices same as last season. Bred from birds with records of

180 to 200 eggs, chicks, per 100..	\$20.00
210 to 248 eggs, chicks, per 100..	25.00

*Order from this ad
or send for catalog*

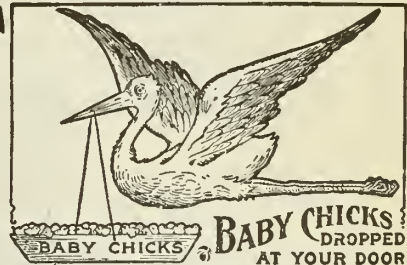
SUNNYSIDE POULTRY FARM, R. C. Blodgett, Prop., Box 1002, BRISTOL, VERMONT

For Nine Years

this wise old bird has been the emblem of

Better Hatched BABY CHICKS

On over 12,000 trips he delivered over 2,000,000 chicks to the doors of our satisfied customers.



His Services Are Needed This Year More Than Ever Before. America responded nobly during the past year to the call for help from the suffering countries across the sea, but our efforts must be redoubled next year, for never before was there such a scarcity of poultry.

Order Your April and May Chicks Now

from our flocks of pure bred, farm raised S. C. White, Brown and Buff Leghorns, S. C. Black Minorcas, White and Barred Rocks, S. C. and R. C. Reds, White Wyandottes, S. C. White and Buff Orpingtons.

Send for Our Handsome Catalog which gives prices and tells of our methods.

THE CO-OPERATIVE BREEDING & HATCHING CO., Box 13, TIRO, OHIO

Gensch's Single Comb WHITE Orpingtons

Sensational Victory at Chicago Coliseum, 1917

1st and 4th old pen, 1st young pen, 1st hen, 1st and 5th pullet, 2nd cockerel, 4th old cock. Best cock, cockerel, hen and pullet.

STOCK

We have a few good exhibition birds for sale.
Also — 18 Cockerels at \$5 to \$25.
30 Pullets at \$3 to \$10.
18 Hens at \$5.

EGGS

We now have our pens mated and can furnish you eggs for hatching from prize winners. Send for my mating list and place your order early.

→ A limited number of Baby Chicks will be sold from all pens ←

F. M. GENSCH

Omro, Wisconsin

Enlist!

in the Poultry Producers Brigade

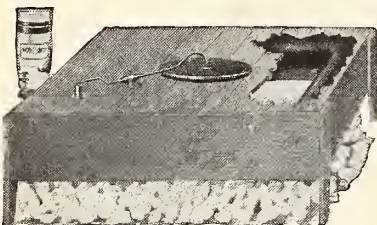


And help win the war by raising chickens in a

Liberty Colony Brooder

Build it yourself. Easy! Requires a few feet of lumber, a few joints of stovepipe. We send complete plans and all equipment. Gives you a brooder 44 inches square with all space under canopy available for brooding purposes. Has capacity of average coal-heated brooder. Uses Sol-Hot Oil Lamp and stovepipe hot air system.

Daniel Sullivan, Staatsburg, N. Y.



writes: "Have your Colony Brooder running. 410 chicks under it. It's a splendid Brooder. Work is less than with coal stoves." Equipment consisting of Sol-Hot Lamp, Regulator and Thermometer, \$5.00.

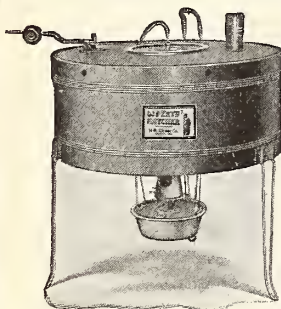
SOL-HOT WICKLESS BLUE FLAME OIL GAS LAMP

Burns coal oil but by combining about 95% air with 5% vapor from this inexpensive oil, produces a perfect blue and Sol-Hot flame. New automatic oil filter enables it to burn low grade oil perfectly. Visible oil feed gives absolute flame regulation and prevents flaring or creeping of flame. Equipped with safety shut-off and automatic flame control. Leaves no residue, smoke or soot. No wicks to trim—no danger.

Made in three sizes. Will increase the efficiency of any standard incubator or brooder. Write for booklet describing it.

Liberty Hatcher

is made in two sizes, 70-egg and 100-egg capacity. Nest type. Eggs held in circular rows by inclined rings in deep hatching tray. Chicks drop into nursery beneath as they hatch. Combined damper and flame regulation and construction of egg chamber give uniform heat and save fuel. Surplus heat and foul gases escape automatically. Has standard first class equipment. Durable built --- beating system welded by electricity. Costs little ---takes little space. Try for one hatching. If not satisfied, return and money will be refunded.

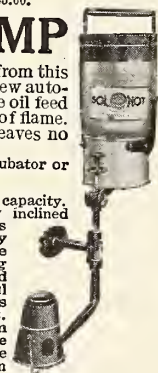


Write for literature on Liberty Hatcher, Liberty Colony Brooder, Sol-Hot Lamp, Regulators, Lamps, Tanks, Heaters, etc. Free plans for building your own Incubators and Brooders.

H. M. SHEER CO.

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Manufacturers of Incubators and Incubator Equipment for More than 30 Years



GOVERNMENT POULTRY CAMPAIGN.

(Press Bulletin from Columbia, Mo.)

REALIZING the importance of the poultry industry with reference to the meat situation of the country, Congress has appropriated \$148,000 to stimulate and increase the poultry production of the country.

Poultry offers an opportunity for a greater number of people than any other means that we have of increasing our food production of animal origin. Here is an opportunity for the women and children of the farms and villages to help win the war and to do their bit in increasing the food supply. Because of its ability of rapid increase, poultry has been selected as the means of increasing our food supply for this year. The following is an outline of the Government Poultry Campaign, and will give a clear statement as to how we can best accomplish this necessary increase. It should be noted, however, that the object of this campaign is rather to increase the products of the fowls already on the farm, rather than increasing the number of fowls raised.

Careful selection of breeding stock to reproduce a larger percentage of good types of profitable producers.

Early hatching, so as to produce fall and winter layers.

To confine mother hens to brood coops for at least two weeks after the chicks are hatched. To provide free range for both growing stock and layers insofar as possible to stimulate growth and production and conserve food consumption.

To preserve eggs for winter use.

To production of infertile eggs as soon as the breeding season is over.

Disposing of surplus cockerels as broilers to conserve grain.

To discourage the marketing of all profitable hens of the general purpose class until the end of their second year, and of the Mediterranean or egg class until the end of their third laying year.

To encourage the careful selection of all hens in order to eliminate the unprofitable producers.

To discourage the marketing of all profitable pullets as broilers and of all well matured pullets for meat.

To encourage the caponizing of cockerels only when free range can be provided, and a special nearby market afforded.

To encourage back-yard poultry keeping, especially among city and suburban dwellers, thereby utilizing table scraps for the production of fowls and eggs for home consumption.

To encourage, when conditions permit, the feeding of a wheatless ration, in order to conserve this grain for human consumption.

To encourage turkey, duck and geese raising when circumstances are favorable.

The United States Department of Agriculture is stationing two men for work in Missouri, and the poultry associations and poultry raisers will be glad to know that R. L. Mason has already taken up the work of this campaign in Missouri.

It is planned to hold meetings in every county and it is necessary in order to make these meetings and the campaign a success to obtain the help and co-operation of everyone interested in poultry. Poultry associations and poultry keepers should take notice of this campaign and communicate with Mr. Mason, whose work is in conjunction with the University of Missouri, at Columbia. Make arrangements to help in this campaign for "100 hens on every farm and 100 eggs from every hen."




Celluloid Bands

Wholesale and Retail. Samples Free.

FRANK CROSS Manufacturer

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Wendell's

Metal inside and out, heavy, a well padded and double walls, automatic as near as can be constructed. A cracken good one.

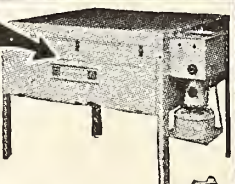
INCUBATORS

We have specialized on brooders for the past 15 years.

We make all sizes, all metal, Hot Water Heat, Warm Flannel to Lay on Chick's Back. The best on the market. We have not raised our prices this year. 25 to 50 chick brooder for \$2.50—50 to 75, \$3.00—75 to 125, \$4.00. It will pay you to

Send Postal Today for free book

WENDELL INCUBATOR CO., Holly, Mich.



Barker's Langshans

Win Again at Chicago Coliseum, Dec., 1917

1st and 2d cock; 2d and 4th hen; 1st, 3d and 5th cockerel
1st, 2d and 4th pullet; 1st and 2d pen. Also

At MADISON SQUARE, N. Y., Dec. 28 to Jan. 1, 1918

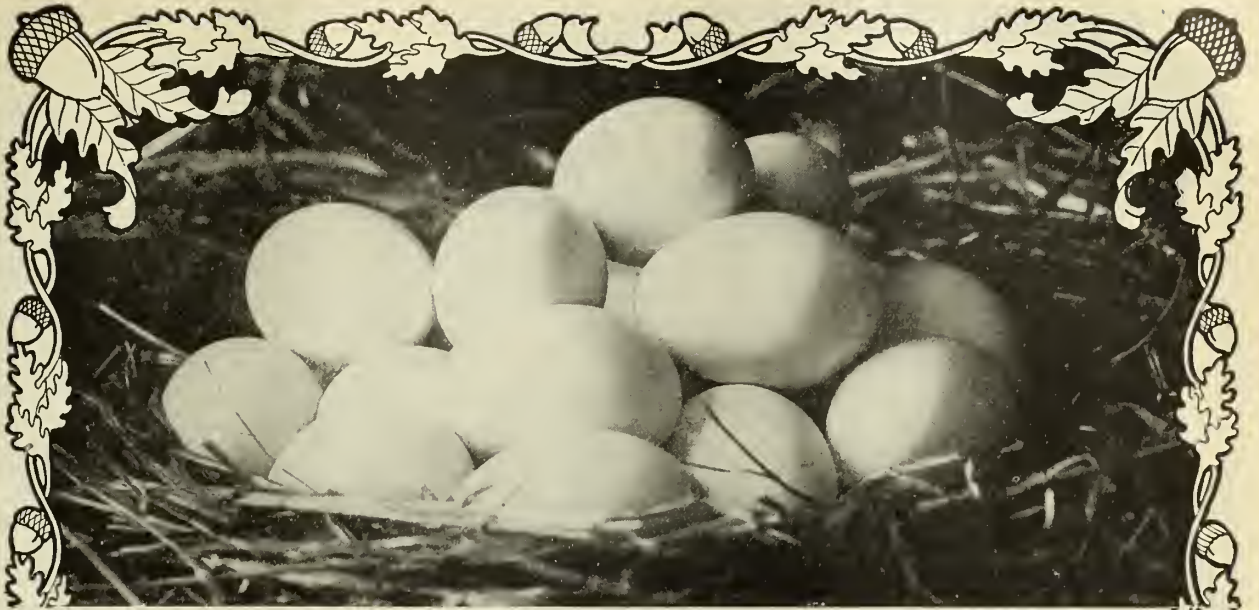
Win 1st and 2d cock; 1st and 3d hen; 2d and 3d cockerel;
1st and 2d pullet and 1st pen.

If you have decided that only the BEST will satisfy you, write me.

A few Choice Cockerels for sale
Eggs, choice matings, \$10.00 for 15; new mating list.

M. S. BARKER, Thorntown, Ind.
— Rural Free Delivery Number One —

1st Cock Madison Sq. Garden, N. Y.



Big Fertile Eggs Like These

are what you need to produce prize-winning, heavy-laying birds that will help you and help your country. Everyone concedes the S. C. White Leghorn to be the most profitable fowl. The only thing left to do is to find the best strain. Send for our catalog before buying elsewhere. After reading it you will know why Oak Dale strain is best.

S. C. White Leghorns Like These

are the kind we produce. Our first prize young pen at the Great Minnesota State Fair, 1917, was the wonder of the show. They are raised on one of the largest and best poultry farms in the world.



A Pair of Our Prize Winners

If you want to win at your show next season and reap the benefit of your success in hard dollars, send for a few settings of our best eggs. They will put you on the poultry map in the *right* way.

Eggs and Stock for Sale

from birds that win prizes as well as produce profitably in the laying pen. Remember, if you do not want a bird bought of us after you have inspected it, if you think you have paid more than you could afford or more than the bird or fowl was worth, or it does not suit your fancy, if you will prepay the express and start it on its return journey within 48 hours after you receive it, the purchase price will be promptly refunded. *Send for our handsome catalog today.*

OAK DALE FARMS

Farms, LeRoy, Minn.
Blooming Prairie, Minn.

Box A

Business Address, Austin, Minn.

MAKES CHICKS GROW

THE lactic acid in the pure rich buttermilk strengthens and tones up the sensitive digestive organs of the little chick—helps prevent White Diarrhea. The mixture of clean, wholesome grains, properly balanced, supplies the right nourishment to start and keep chicks growing.

Conkey's Buttermilk Starting Food

for chicks is different from all imitations. Costs two cents per chick for those critical first eight weeks. Builds strong, sturdy chicks that grow into heavy layers, good breeders and full bodied market birds. Buy a bag. Ask your dealer.

Conkey's Poultry Tonic keeps hens laying.
12 lb. pail \$1.40; 50c and 60c.

THE G. E. CONKEY CO., 1000 Conkey Bldg., Cleveland, Ohio

Conkey's Buttermilk Starting Food

THE ORIGINAL



The Proper Color of Speckled Sussex.

An article written by Mr. A. J. Falkenstein, the leading English breeder of Speckled Sussex, read at the annual meeting of the Sussex Club of America at Cleveland, Ohio, January 10, 1917.

BY REQUEST of our esteemed president, I send you a few notes on the color of Speckleds. I have bred this color now for some fourteen years and therefore I presume to know a little about it. These notes, however, simply represent my own ideas and are written with only one motive and that is to try to induce you all to breed for the rich, dark mahogany ground color. It is only a very few years since this rich color was first seen and I believe I am right in saying that Mr. Williams' cock, Lord Roberts, was the first bird of this color to be exported to the States. I have for years been trying without any cross to breed this particular color and he was the first good bird I produced. I hope you do not think that this color is common in England. Far from it, and I do not know of any fancier outside my own yards who has bred this color. The reason for this is that I have not sold any of this strain in England until this year when I have sold several.

The breeding of these birds was simply done by every year breeding from the darkest and clearest pullets and the darkest topped cockerels. Years ago the craze was for plenty of marking on breast, the three colors showing distinct, right up the throat. The shade of ground color (brown) was never defined and so long as they were showy they won. These birds were all very light in ground color, practically yellow, with very light yellow top color and with plenty of ticking on neck and saddle hackles. They were, however, of great size and good type. Until fairly recently this color continued with occasionally a darker one or two being bred, and fanciers here began to see that there was greater beauty in the darker ones and now among Speckled fanciers I constantly hear the remarks, "too light," or "not dark enough." The light-colored birds are easy to breed, as there is only size and type to breed for; the light color comes without any effort from the breeder. In breeding light-colored birds there is nothing to breed for, and if a color is worth having it should be difficult to attain.

My idea of a Speckled cockerel's color is that his neck, back, wing bows and saddle should be all the same shade of rich dark brown with a metallic luster all over when the sun is on them, the neck and saddle hackles to be striped with black and a white tip on each feather. In breeding these dark birds I find the ticking does not always come so distinct or pronounced as on the lighter birds, but I think this is only a question of time, but, even without ticking, to my idea, they are far more preferable than a light bird with proper ticking. In fact, given the choice, I

PAINTS AND DISINFECTS—
IT DRIES WHITE

**PAIN
OR
SPRAY**

CARBOLA
The Disinfecting White Paint.

in poultry houses, dairies, stables, hog pens, cellars, creameries, cheese factories, etc., instead of using whitewash and disinfectants. It is a better paint than whitewash—there is no better disinfectant made—you do two things at one time—you get satisfactory results or your money back.

Carbola dries a clear snow white—can be applied to wood, brick, stone or cement or over whitewash—and will not blister, flake or peel off. It will increase the light in a building—send sunlight into dark corners—make it clean, cheerful and sanitary—put it in shape to face the most rigid inspection of milk company or health authorities. Carbola kills lice, mites, nits, fly eggs, etc., and prevents the germs of roup, white diarrhea, glanders, contagious abortion, and the many other contagious diseases that affect poultry and live stock from getting a start and spreading thru your flock or herd. It is neither poisonous nor caustic—will not harm the smallest chick or injure stock that licks it.

Saves You Time and Labor

Carbola is a finely ground white powder and is ready to use as soon as mixed with water. No waiting or straining—none of the bother of mixing whitewash. Apply it with brush or sprayer—it will not clog the sprayer. Has no disagreeable odor to taint milk or food products. Does not spoil by standing so can be kept on hand ready when wanted. One gallon covers about 250 square feet.

Your hardware, seed, paint or drug dealer has Carbola or can get it. If not, send direct—shipment by parcel post or express the day order is received.

10 lbs. (10 gals.) \$1 and postage 20 lbs. (20 gals.) \$2 delivered
50 lbs. (50 gals.) \$4 delivered

Trial Package and interesting booklet for 25c postpaid.
Carbola is packed in barrels holding about 500 pounds for the convenience of large farms.
Carbola Chemical Co., Dept. 1 7 East 42nd Street, New York

PAINTS AND DISINFECTS—
IT DRIES WHITE

Guaranteed Extra Strong

BABY CHICKS

Poultry is not barred from the menu on meatless days, therefore the demand will be greater than ever. England's experience has taught that poultry and eggs are invaluable as food in these strenuous times. Help supply the demand by ordering of our vigorous, bred-to-lay, utility stock. Write for booklet containing prices and description.

Large Capacity—Quick Shipment

THE ELYRIA HATCHERY CO. Box A ELYRIA, O.



PAINT ROOSTS AND HEN HOUSES

with the highly recommended
"CARBOLINEUM"
(made in U.S.A.)
ONCE A YEAR
and you have
no MITES to
fight. Guaranteed. Write

MADE IN U.S.A.
CARBOLINEUM
Wood Preserving
Company, Dept. 50
MILWAUKEE, WIS.

You can get the American Poultry Journal 3 years for \$1

would take one real good dark one without ticking than fifty light-colored ones with ticking. I, and no doubt many of you, know who have been trying to breed dark ones, how difficult it is to get them and how easy it is to breed the light ones. To show that it is not always the rule for dark ones to come without ticking, I have a cockerel which I bred this season, darker on top than Lord Roberts and with a beautiful ticked neck and saddle hackles. I sent some feather from this bird to Mr. Williams and I expect he will show them to you. But I was giving you my idea of a Speckled cockerel's color. I myself prefer a colored tail, mixed black and white with black sickle feathers with white tips and also mixed flight feathers in wings, black, brown and white. I think it not so somber looking as black tails and dark flights. It shows up a bird and is much more handsome, to my idea. The color of breast I like is a rich dark brown and as near the color of top as possible. This should extend from throat to vent, all the same shade, with, of course, the black bar and white tip to each feather. I have sometimes bred cockerels with dark tops and a lighter shade of brown on breast, but I do not like this and think it ought not to be. It seems to me to make it a common bird at once. We cannot all think the same and, of course, there will always be a diversity of opinion; but I feel absolutely certain that in breeding the rich dark brown birds we are on the right track.

I would like to ask you all one question, especially those who have imported Speckles, and that is this: How many of these rich colored brown birds have you bred and how many have you had sent from England? (Mr. Williams will give me the answer.) Isn't it proof of the scarcity and therefore of the value of them? The light-topped birds, in my opinion, have had their day and are now only commoners. Any fancier with an eye to the beautiful cannot but help vote for the dark ones. The richness of color alone carries with it the one word, "quality."

With reference to pullets, I also like the rich dark brown ground color and enclose a feather taken from a pullet's back today and consider that they should not be any lighter in ground color than this, altho this feather looked darker in the bird than it does out. I also like to see every feather clear in the brown not ticked with small black ticks.

In breeding these dark brown birds I feel sure also that the females will in time keep their color better and not molt out so light. In proof of this I have a few hens, one two and another three years old, that have no more white in them than in their first year.

We in England have not considered under color to the extent you have; personally I prefer a slate or red or slate and red. I do not care for light in under color at all, either for a show or breeding bird.

The difficulty one has in showing these real dark birds is that often a man officiates as judge who has never bred Speckleds and therefore goes for a showy light bird and does not appreciate the difficulty in breeding the dark ones.

Straight Answers to Timely Questions

What is Pratts Poultry Regulator?

A positive tonic and conditioner for poultry of all kinds and ages. *A health-builder and health-preserver.* Not a food.

What does it contain?

Roots, herbs, spices, mineral substances, etc. Each ingredient performs a certain duty. The combination spells "health insurance."

What does it do?

Pratts Poultry Regulator makes and keeps poultry healthy, vigorous and productive. It sharpens the appetite, improves digestion and circulation, hastens growth and increases egg-production. *It saves feed* by preventing waste due to poor digestion. *It prevents disease* by keeping the birds in condition to resist the common ailments.

Has it been fully tested?

Yes! In general use for nearly fifty years. The original poultry conditioner. Imitated, but unequalled.

Does it give general satisfaction?

Positively! *Satisfaction guaranteed or money refunded.* Test it at our risk. Increased egg-production will prove that "Pratts makes hens lay."

How is it best used?

Daily, in small quantities. For adults, a tablespoonful daily for 10 birds. Younger stock in proportion. Mix with dry or moist mash.

What does it cost?

Nothing, because *it pays big profits.* One cent a month per hen is the investment required.

Where can I get it?

From 60,000 Pratt dealers. There is one near you. Direct from the manufacturer, prepaid, if your dealer can't supply you.

How can I learn more about it?

Ask the Pratt Food Co., Philadelphia, for valuable FREE BOOKS on poultry keeping. Write today!

PRATT FOOD COMPANY
Philadelphia Chicago Toronto

Pratts

Pure bred S.C. Wh. Leghorns EGGS and CHICKS
BARRON from 282 egg stock

EGGS, \$1.50 per 15; \$7.50 per 100. CHICKS, \$15.00 per 100

Every non-fertile egg and damaged chick replaced free. Send us your order now to insure delivery on the date you wish them. No deposit required.

Coleman Miles Egg Farm, Importers and Breeders of Tom Barron's Pedigreed Leghorns. Mt. Carroll, Ill.

TOLMAN FRESH-AIR STRAIN
WHITE PLYMOUTH ROCKS

Day-old Chicks and Eggs for Hatching. The kind that give results. Write for prices.
Joseph Tolman - R. F. D. No. 1 - Rockland, Mass.



ORDER Your March, April and May Chicks and Eggs NOW!!

How many will you need? Write for open date of shipment. Remember that my Leghorns are all one strain, and the best proof of the satisfaction they give is the demand from year to year. I have increased the number of breeders by about 50 percent to help make up or the great deficiency in breeding stock this season.

I know how good my stock is, and how it compares with other breeders', yet I never make rash claims and statements about the heavy laying qualities of my birds. I probably have as many 200-egg layers as any breeder in the country, but every bird does not lay this quantity of eggs, and chicks from my stock would not average these numbers.

Tho, I am breeding lay 200 eggs a year. No strain on earth has more stamina and vitality, and chicks purchased from me are very easy to raise. All my breeders are bred and raised here on this farm from large white eggs and pure white stock.

Our prices vary from 18c to 23c a chick, according to whether you buy in lots of 25 or 5,000. Eggs at just one-half price of chicks. I make prompt deliveries and ship in best possible manner. Once a customer, always a customer. That's what keeps my business growing bigger and better every year. You should at least try out some of our Leghorn chicks and eggs this season. They are proving a revelation to a great many breeders in different parts of the country. Catalog and prices free for asking.

SUNLIGHT POULTRY FARM Box 200 LYNCHBURG, OHIO

LEGGETT'S "SUPERFINE" Columbian Wyandottes AND SUCCESS ARE SYNONYMOUS

We guarantee our customers against all failures when they buy Hatching Eggs or Baby Chicks bred from our TRAPNESTED breeders. Eggs \$3 and up; Baby Chicks 35c and up. See cut on page 345. Catalog. Write us your wants.

H. A. D. LEGGETT & CO., 24 N. Nash Pl., BURLINGTON, VERMONT

Williams' White Wyandottes
1896 — Champions of 1916-17-18 — 1918

I bred, raised and exhibited 26 out of a possible 32 first prize birds at Hagerstown, 1916, and the last two Garden shows, also 7 second prizes, 3 of them where I lost first. Is not this proof that I can mate birds from my own flock that will produce for you? Why not get a mated trio or pen that will produce real Wyandottes for you and put you on the map with successful poultrymen? Quality breeders at \$5 to \$25 each, either sex; but for results, I recommend a trio or pen of my own mating. Birds returnable within 3 days at my expense if not satisfactory, and your money cheerfully refunded. My catalogue free. F. B. Williams, Box 4, Naugatuck, Conn.

Rood's White Leghorns
WIN AT THE GREATER CHICAGO SHOW

At the Greater Chicago Show, January 9 to 15, 1918, I won First and Third Cockerel, Second Young Pen and Sixth Pullet on four entries. Every bird placed. Also won Champion Male and Best shaped Male. My mating list is ready and is yours for the asking. I know it will help you.

TED ROOD 1718 Superior Street WEBSTER CITY, IOWA

GOLDEN WYANDOTTES 200-Egg Strain, winners at Madison Square, Chicago and World's Fair.

F. E. Robb writes: "I bought 25 of your late June Baby Chicks and they grew the fastest and matured the quickest of any chickens I knew of, and won 1st cockerel and pullet at our show."

Gass Goedall writes: "We raised 65 chicks from the trio we got of you March 5, 1917. They started laying March 15 and have laid ever since, and we won at St. Louis, 1st cock, 1-2 hen, 1ckrl., 1-2 pullet." That is the satisfaction my customers get, and many more write the same. I have a few high class trios for sale at \$25.00. Eggs \$2 per 15, \$3.50 per 30, \$8 per 100. Baby Chicks, 30c each. \$25 per 100.

J. S. PENNINGTON BOX A, PLAINFIELD, ILL.

ROYAL RED SUSSEX PLATT'S STRAIN

Hamilton, 1st cockerel, 1-2-3 pullet, Nov., 1917. Guelph, 1-2-3-4 hen, 2-4 cock, Dec., 1917. Calgary, 1st hen, 2d cock, Dec., 1917. Sussex Club Meet, Cleveland, Jan. 7-12, 1918, 3d cockerel, 4th hen. Montreal, Jan. 8-12, 1918, 1-2 cockerel, 1 pullet. North Ontario, Jan. 7-11, 1918, 1st cockerel, 1st pullet, 2d cock, 2d hen. EGGS \$10.00, \$7.50 and \$5.00. Send for free mating list.

C. K. Carrington, 563 S. Syndicate Ave., Fort William, Ontario, Canada

Rose QUALITY R. I. REDS Single

At the late Cleveland Show, with 30 head shown, 29 were under the ribbons. My 1st prize and color special Rose Comb cockerel was pronounced by the judge a wonder; one brilliant even shade of red, splendid markings; head and comb can't be beat. Every female in my 5 best pens of each Rose and Single Combs has a dark, glossy hackle, mated with males of a dark, even velvety red, and chuck full of quality. Eggs from best matings, \$5 and \$10 a setting, 75 choice breeding cockerels to spare. B. M. BILLINGS, Box A, Elyria, Ohio

"Golden Rod" Buff Orpingtons Win at Springfield, 1916-1917

1, 2 and 3 old pen, 1 young pen, 1 and 2 cock, 1 and 3 hen, 4ckl., 2 pullet. At the Illinois State Meet of the Buff Orpington Club, Peoria, Ill., 1918, I won champion old pen, 4 young pen. Eggs guaranteed to hatch. R. M. SEWARD. R. R. No. 1 LEWISTOWN, ILL.

From the Sunny South.

THROUGH the courtesy of yourself and The Florida Farmer and Stock Grower, I have become a reader of the AMERICAN POULTRY JOURNAL. I read most of the good journals on farming and poultry raising and I regret I have not had yours before.

Your December number I think particularly good and some of the articles will assist the beginner. I commenced farming and poultry raising (for eggs) in Florida in 1886, and, like all beginners, bought fancy feathers from the fellows who advertised them for sale, and paid the price. Also purchased some books on poultry, advertised to be the thing. I remembered some of the care that mother gave her hens on the farm in Illinois and that the only ration fed them was whole grain corn shelled by hand, fresh out of the crib, and she got good, big, rich eggs, plenty of them; the balance of their living they hustled for.

I am sure the beginner would get along better if the men and women who write about poultry raising would be more specific, but most of these people are theorists and professors who never made a dollar in the poultry business and maybe never owned a hen. We had a number of that kind this spring, sent down here from Washington. Your northern methods have to be remodeled down here in the tropics. I grow on the farm all the grain fed except wheat and its products, bran and shorts, and oats. Grain, especially corn, is thoroughly devitalized when shipped to Florida; the life and food practically all cooked out of it. We grind our corn and other grains on the farm, buy wheat, bran, shorts, oats, meat meal, ground bone, salt, shell and grit. Grain cost 25 cents a bushel to produce this year. We have many plants grown the entire year; a little effort will furnish the hens with greens all winter, but nothing better than sprouted oats, sprouted in the earth. If they don't grow fast enough to suit me, I scatter a little nitrate of soda over the beds and sprinkle with the hose. The oat beds are highly fertilized with organic manure and hardwood ashes. Dr. Wood has about covered the ground in his "Quantity of Feed Required by Poultry." My scratch grain is about the same as on page 1127, except no barley or buckwheat, and salt and charcoal added, making a mash a little over 12 percent protein. My hens are fed 75 pounds of grain and mash annually, abundance of green feed during the summer months. I drop most of the corn. During the heavy laying months I feed one-half ounce scratch feed in the morning per hen (no roosters) in deep litter. Mash, grit of all kinds, including ground bone, clean quarters, pure water, all day; greens at noon; a little before sundown I feed 1 1/2 ounces of whole corn shelled the day I feed it and 1/2 ounce of scratch grain. This leaves a little scratch grain in the litter for early morning. The above amount weighed for each hen. Water vessels are disinfected twice a week in cool months, also all buildings; in hot months, oftener. The first seven months my hens produced eggs at 16 cents per dozen, sold at 50 cents. They are Standard-bred crosses. I added 1,000 May pullets from Ohio last September, Single Comb White Leghorns,

the 200-egg kind or better. I had some trouble with them, but they are fine-looking hens now and beginning to lay. The off months in the year are July, August, September, October and November. July and August a little profit, but you are doing mighty well to come out even during September, October and November. I am producing eggs now for 30 cents per dozen. One of the great hotels of Jacksonville takes the entire output and pays 70 cents per dozen. Next month the hens should lay double what they are doing now. I keep the hens, as near as possible, free from all excitement and fear, and have succeeded in getting an average to 145 eggs a year. I believe it advisable to instill new blood into the flock every year. Down here, on a basis of twelve dozen eggs per year, White Leghorns will produce them for 4 cents per dozen less than other breeds.

W. L. VAN DUZOR.
Jacksonville, Fla.

An Appeal to Eastern Women from the West.

By ARMINDA WOOD, President,
Woman's Club of Racine, Wis.

To my mind, it is most important that this law which increases postage on periodicals thru a "Zone System" should be repealed.

The many splendid magazines published today are a means of education to many a home where other opportunities are lacking. And many of these homes are remote from publishing centers—many even remote from city life. It is the magazine combined with rural delivery that has brought to the door of the country woman material which helps her solve problems needing advice more easily obtained by her city sister. Thru this medium she has known current events, has guided her children by the educational influences offered and has been able to keep herself in harmony with the world from which she was separated. Periodicals and newspapers are as essential as food to the country home.

Then again the attractive magazines in every city home means keeping together the family circle. To make the magazine prohibitive by excess postal rates would be to take away from mothers one of the means whereby they have battled against outside attractions.

Now just because a woman lives in a Western state remote from publishing centers—and, of course, home interests affect the woman most—is she to be made to pay a penalty in order to bring opportunities to her door? To enforce the 50 to 900 percent periodical postage law would be causing mental starvation to many who have only this means of keeping abreast of the times.

Every thinking Eastern woman should put her full strength into a drive which will give her Western sister the same advantages which she enjoys.

LIGHT BRAHMAS
WINNERS AT CHICAGO 1917
THE BIG KIND THAT WIN AND LAY
birds that have standard type and color. The quality of my stock simply cannot be excelled and my prices for same are most reasonable.
Eggs for Hatching—Stock for Sale.
JOHN BLANCHARD Columbus, Wis.

WHITE ROCKS 1st Cockerel, - 3rd Hen -
Heart of America Show,

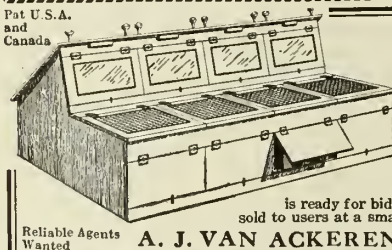
KANSAS CITY, MO. Eggs, \$1.50 to \$5.00 per 15. Write for free catalog. - MYRON ALBERSTETT, DAVIS, ILLINOIS

White Quill White Rocks

Winners CHICAGO COLISEUM, MILWAUKEE AUDITORIUM and WISCONSIN STATE FAIR

At Milwaukee, January, 1918, in a large class of Quality White Rocks my birds won on eleven entries, eight ribbons: Cock 2d, Hen 1st, 5th, Cockerel 3d, 5th, Pullet 2d, 5th, Young Pen 1st, and best display. I have a grand lot of Pullets for sale which are ready for business. EGGS—BABY CHIX—STOCK. Write for mating list.

A. F. POLTL - HARTFORD, WIS.



BIDDY'S FRIEND
Hatcher and Brooder Coop

TWO-IN-ONE COOP

The most convenient coop that has ever been offered to the poultry raiser. This coop enables you, with very little work, to take care of hens while hatching. When chicks are hatched, remove partition and the coop is ready for biddy and her chicks. It is rat proof. Plans and Patent Right sold to users at a small cost. Write for circular.

Reliable Agents Wanted A. J. VAN ACKEREN L. B. 107 CEDAR RAPIDS, NEB.

OTTO White ORPINGTONS WERE THE BIG WINNERS AT INDIANAPOLIS

1907 : 1918

Cocks, 1-2; cockerels, 1-3-4; hens, 1-2; pullets, 2-5; pen (old) 1. Ten entries and every bird placed. Eggs from the finest matings of our eleven years' experience, \$5.00 per 15. Special line-bred mating, \$10.00 per 15, headed by our sensational first cock at Indianapolis.

These matings contain all our Indianapolis, Indiana State Fair, and Coliseum winners. Write today for illustrated mating list. We still have some desirable breeding stock, especially male birds, from our finest blood lines. For further information, write

WILLIAM N. OTTO - 4815 Central, INDIANAPOLIS, INDIANA

SPRAGUE'S RED EGGS
The Oldest Rhode Island Red Yards in the West
QUALITY RIGHT Red Book Free PRICES REASONABLE

P. H. SPRAGUE : : : : MAYWOOD, ILL.

QUALITY, BRED-TO-LAY



S. C. White Leghorns
EXCLUSIVELY

Day Old Chicks and Eggs for Hatching. Order now for future delivery. Our prices and quality are right. At least get our catalog and prices before ordering elsewhere.

THE ELLIOTT POULTRY FARM - Route 7, Box 87 - Mansfield, Ohio

GREEN'S GREAT GROUP

OF PRIZE-WINNING

White, Buff Leghorns Barred Rocks
Single Comb Reds White Wyandottes

Show or utility stock that will enhance the value of your flock and give it a reputation that will mean dollars in your pocket. They win—they lay—they pay. No stock for sale. Eggs, \$2.00 per setting; 3 settings for \$5.00. Book your orders now. FLOYD GREEN, 1026 June St., FREMONT, OHIO

WARNER'S A Mother Hen FREE with every order for 12 or more baby chix. Deduct \$1.50 from the amount of your order if the mother hen is not wanted.
S. C. BUFF Chicks from pen matings50c, 60c, 75c and \$1.00 each.
ORPINGTONS Eggs from the finest matings.... \$3.00, \$5.00, \$7.50 and \$10.00 per 15.
OUR BIRDS ARE WINNERS at such shows as Greater Chicago, Illinois State, Peoria, Quincy and Monmouth, Ill. Fine males and females sired by champion and color male and second pen male at Greater Chicago Show, 1918, for sale. Fine trios at a reasonable figure.
D. L. WARNER - LITTLE YORK, ILLINOIS

SMYTH'S 70 INCUBATOR AND NURSERY. ALL STEEL BODY



ON 30 DAYS' TRIAL
FREE
HOLDS FULL 70 EGGS

At our special \$9.99 price you will sell \$600 Smyth's all steel body 70 egg incubators. Guaranteed to hatch as large a percentage of strong, healthy chicks as any incubator made, regardless of name, make or price. Made with all steel body, triple walls, 1818 improved disc regulator, standard thermometer visible through glass damper.

best safety metal lamp, heat distributing drum around outer edges, water jacketed heat and automatic heat regulator insuring even temperature and moisture in every part of egg chamber, and even heat to eggs all the time. Equipped with special egg tray sloped so small end of egg points down and chicks when hatched will drop from shell into the roomy nursery below. Full directions with incubator. **SEND \$1.00** deposit and we will ship from shell into the roomy nursery below. Full directions with incubator. **TRY IT 30 DAYS** perfectly satisfactory and we will refund your \$1.00 deposit and if you do not find then take it home and—**PARCEL POST** send \$3.98 and enough money extra to pay the parcel post postage and we'll send on same liberal trial offer as above. Shipping weight 19 lbs. We make very low prices on larger incubators, brooding and poultry supplies of all kinds in our big free incubator price list sent you free upon request. Order incubator or price list today.

JOHN M. SMYTH MFG. CO. 703-789 Wash'g'ton Blvd., CHICAGO

INCUBATORS TO HATCH—BROODERS TO BROOD—CHICKS

TO RAISE chicks profitably it is necessary to use incubators and brooders. They are simple to operate and easy to understand.

The word "incubator" still possesses, in the minds of many breeders of poultry, a most mysterious sound. To hatch eggs by means other than the sitting hen appears to some to be a wonderful and intricate undertaking. Yet if the requirements for producing a chick from a fertile egg be duly considered, it will be seen to be most simple—at least for the poultry breeder. For the incubator manufacturer, it may be different; but why should the farmer or breeder worry about that? It is up to the manufacturer to "produce the goods" in the shape of an incubator that will hatch—an incubator that will do so even in the hands of a novice who has had no previous experience. The incubator manufacturer has done, and is still doing, his part in making the hatching of chicks easy and profitable. He has produced a machine that gives less trouble than a sitting hen, and which, on the average, will hold as many eggs as a dozen hens can cover. If any eggs are broken in course of incubation, that is the fault of the operator—or the hen. The incubator does not break eggs.

What is there about the operation of an incubator that is difficult? Nothing. It is just a question of exercising ordinary care, and the thing is done. What does a hen do in order to hatch chicks? Simply applies the necessary heat, and leaves the nest now and again, which affords ventilation to the eggs. And that is all that is necessary to provide in an incubator in order that it also may hatch chicks—apply the proper heat and ventilation to the eggs. The manufacturer has provided the means. It is up to you to take advantage of it if you wish to hatch chicks profitably—numerously.

If you have an incubator, what do you do when you wish to operate it? Simply light the lamp to heat the machine to the right temperature (102 or 103 degrees); place the eggs on the tray as soon as the temperature remains stationary; cool the eggs each day as directed by the manufacturer, and that is all.

You cannot prevent eggs hatching in a properly constructed machine (assuming they are fertile) unless you do some fool trick, or leave undone one or more of the few things you are instructed to do. The incubator puts it all over the hen when it comes down to commercial hatching.

THE BROODER AS A CHICK RAISER

The brooder, like the incubator, is a simple machine. It is intended to raise the chicks that have been hatched either by an incubator or by hens. If the chicks have been hatched by hens, great care must be taken to thoroughly dust them with insect powder, so that they shall not carry into the brooder the lice which they have inherited from the hens, for they always get a few or many, and lice multiply rapidly. If the chicks are hatched in an incubator they are free from lice when placed in the brooder, and that is nearly half the battle in raising chicks. Start with a clean sheet. In any case it is easier to drive lice out

R. C. REDS

220 AVERAGE

OFFICIAL RECORD
Meyer's Famous R. C. Reds

Our pen No. 59 in the 1915-16 Missouri National Egg Laying contest has

The Highest Record Ever Made

by a pen of Reds in any laying contest.

Our pen No. 22 in the 1916-17 American Laying Contest was first prize pen in the contest.

This shows that Meyer's Reds are leading all others. They win first year after year in competition with the best blood in this country. If you wish the best, write for free mating list.

RIVERVIEW POULTRY FARM
Hubert Meyer, Prop. Klondike, Mo.

"Whatglen"
Single Comb

Black Minorcas

have no superiors in the show room or for utility purposes. Our pens are now mated and are the best we have ever owned.

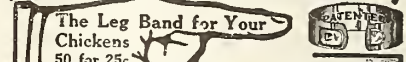
Stock for Sale
Eggs for Hatching

from our best matings at most reasonable prices. Write for our free catalog, the finest ever issued in the interests of Black Minorcas.

WHATGLEN FARM
FRANK McGRANN, Prop., Box A. Lancaster, Pa.

SIMPLEX GUARANTEED

Appliances for the poultry **FACTORY TO CONSUMER.** yard are sold direct from Automatic Feeders, Feather Brooders, Sanitary Fountains, Trap Nests, Grit Boxes, Feed Hoppers, Exhibition Coops, Incubators, Feather Hovers, etc., AT WHOLESALE PRICES.



The Leg Band for Your Chickens
50 for 25c
Any Size
No. 1 to 50

We want you to get acquainted with our useful poultry appliances and for this reason we are offering 50 self-locking rust-proof leg bands—embossed numbers, 1 to 50, at the special price of 25 cents. Postpaid. State variety you breed when ordering. **SIMPLEX SUPPLY HOUSE** Pontia Bldg. CHICAGO SEND FOR COMPLETE CATALOGUE—WE SAVE YOU MONEY

POULTRY BANDS
Pigeon Bands—Nest Tags

All goods guaranteed to be just as represented. **ALUMINUM BANDS** with raised figures, price postpaid, 10-15c, 20-25c, 50-55c, 100-60c.

SPIRAL CELLULOID BANDS. 10 different color's price, postpaid, 12-15c 25-25c, 50-45c, 100-75c

COLORS CELLULOID, with Aluminum Back. Any color, two large black numbers in each band; price 12-30c, 25-50c, 50-90c, 100-81.65.

Please do not send postage stamps
The National Poultry Band Co.
Send for Catalog. NEWPORT, KY.

DAY-OLD Chicks

With stamp of quality insuring Vigor and Livability. Shipments Guaranteed up to 1,500 miles. White Wyandottes Banded Rocks, White Leghorns, Buff and White Orpingtons, S. C. and R. C. Reds.
EGGS FOR HATCHING at low prepaid prices. A post card will bring you our 1918 catalog.
Goshen Poultry Farms, R-12, Goshen, Ind.



BABY Chicks
100,000 For 1918

Rhode Island Reds, White Wyandottes, White, Brown and Buff Leghorns, Black Minorcas, Anconas, Barred and White Rocks and Broilers. Extra large and heavy layers. Egg record of 248 flock. Lowest prices. Literature free.

HARRY LEPARD
1945 W. 74th St., Cleveland, O.

We Won Display
at the
Great Chicago Coliseum Show
on
Single Comb Black Minorcas
December, 1917

which is the country's largest National Show, and probably the strongest Black Minorca National Show caged. Bred for winning, laying, weighing and paying. Free mating list tells you more. Eggs for sale from the best matings we ever put together.

ROYAL POULTRY FARM
OSSIAN Box 500 INDIANA

EGGS CHIX

White Plymouth Rocks
Always in the Ribbons — Abundant Layers
At Attleboro, Mass., with the best in the East competing, we won 2 cock, 1, 5, 6 hen, 6 pullet, 6 cockerel, in six entries
Hatching Eggs..... \$4.00 per 15
Chicks..... 20c each
COCKS BROS. Box 284 ATTLEBORO, MASS.

of a brooder or a brooder chick than it is from a hen, or a hen-raised chick, and economizing on labor counts in the "chicken business." The brooder can be fumigated; every vestige of life removed (move the chicks first, of course), while it is next to impossible to get rid of every louse on a hen.

Therefore, use a brooder to brood your chicks. There is nothing very wonderful about the fact that to raise chicks requires similar methods to those required to hatch them, namely, the utilization of heat and ventilation; the only difference being in the quantity of each that is required to be applied. For that reason brooders are constructed simply and are easy to operate.

When preparing to raise chicks in a brooder all you need to do is to "heat up" to the correct temperature, and when it is heated put in your chicks direct from the incubator. Of course, you have spread chaff, or a substitute, over the floor of the brooder—and it is a good idea to add a little sand for the chicks to pick at.

Don't bother your head about furnishing food for the chicks for a couple of days after they are hatched. They need no food at that time and are better without it.

When the little wing feathers begin to appear, which will be within a week, drop the heat in the brooder to 85 degrees, and in a few more days to 80 degrees, and increase the ventilation.

Now, all this appears very simple, and it is. The brooder will do its part if you do yours. And your part is to use your good judgment with the chicks in a brooder, as you would have to do if they were under a hen; only with the brooder you have less to do and less to worry about.

WHITE PLYMOUTH ROCKS AS A BREED.

By FRANK E. PALMER, Sparta, Ill.

ALL THINGS considered, I do not believe there is a breed of fowls today that are of more value than White Plymouth Rocks as an all around breed, whether it be for the farmer, the backlotter or the high-class fancier. And there is no other breed upon which utility and beauty can be as easily combined as on our leading strains of this variety, and as a rule our finest female exhibition specimens at the leading shows are excellent layers, not only as pullets but as hens, and are often good up to three and four years old.

White Plymouth Rocks are prolific breeders, and there are some qualities that are more pronounced on the average specimen in this variety than any other breed, and that is long, wide backs, broad across the saddle; deep, full, round breasts, long keel bones and powerful thighs. Quick feathering and quick maturing youngsters are features that most White Rock breeders have considered and are of great value in marketing young stock.



"That Common Sense Feed is certainly producing results for me"

"I'm getting half again as many eggs as I used to get—since I've started using Common Sense Feed. This last month I've made more money from my eggs than I ever did before.

"Common Sense Feed surely has the right food elements in it—and it must be a perfectly *balanced ration* to produce eggs this way!"

Scratch—Egg Mash—Baby Chick and Developing Feed—

You can get Common Sense Scratch Feed—Egg Mash—Baby Chick Feed and Developing Feed—and be *guaranteed* better results all around for less expense.

Every grain—fresh, sound, dry, sweet and clean. Read the guarantee.

Your Guarantee

You are guaranteed better results—healthier hens and chicks—and *more eggs*—with Common Sense Scratch Feed, Egg Mash, Baby Chick Feed and Developing Feed.

If your hens are not healthier—if you don't get more eggs—with Common Sense Feed after using a reasonable amount of your order—we will refund your original purchase price and pay all transportation and cartage charges—*both ways*.

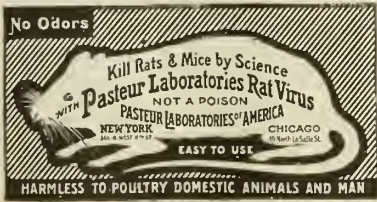
THE FAMABELLA COMPANY, Inc.
Dept. 4, DETROIT, MICH. 1105 Grand River Ave.

TEST YOUR EGGS

SEE THAT "XX"? before you set them under hens or put them in the incubator. Whether you buy or sell eggs for hatching discard every one that does not pass the Magic Egg Tester. Don't try to hatch weak eggs—it kills the profits. Regulates moisture in the egg chamber perfectly. Demonstrated at poultry shows everywhere. This is positively the only way to tell which eggs won't hatch before you begin to incubate them at all. Read on!

XX } OUR SLOGAN: — Take the gamble out of eggs and put the gambol in the chicks. { XX

Third word in each line **SOUNDS** alike, but not **SPELT** alike—**THAT'S WHY THEY DIFFER.** Just the same with eggs—**LOOK** alike, **SEEM** alike, but this Tester shows they **DIFFER.** That's why **MANY** are not good to set. Do not delay, order this Tester and **SPOT THE WEAK EGGS.** \$2.00 each. Insured parcel post. One year's trial. Cost refunded if not satisfied. Newest incubation methods with each Tester. Circular free. **MAGIC EGG TESTER WORKS, Dept. B4 Buffalo, N. Y., also Bridgeburg, Can.**



World's Best S. C. Black Minorcas

Two years in succession I won the \$50 cup for best collection at the American Black Minorca Club Show. For the last ten years at Canada's two greatest shows—Canadian National Exhibition, Toronto, and Provincial Show at Guelph. Stock direct from my yards, either by me or in the hands of my customers, have done most of the winning. Special low price to make an early clean-out.

T. A. FAULDS LONDON, ONTARIO, CANADA

RILEY'S WHITE WYANDOTTES

Won Best Display at the Chicago Coliseum Poultry Show, Dec. 1916

This, added to my record of six firsts, three seconds, two thirds at the Ohio State Fair the year before, proves their quality as breeders. They are bred-to-lay with the same care they are bred to win.

My 1918 Matings

are better and stronger than ever before. They include my 1st and 2nd cocks, 1st pen cockerel, 2nd pen cock at Chicago and my other winning males and females. Will sell you eggs from every pen I own. Eggs for hatching, \$3, \$5 and \$10 per 15. From \$5 and \$10 matings I guarantee 100 percent fertility, a chick in every egg, replacing every infertile egg returned to me. Some strong, sturdy, selected cockerels, exceptional quality for the price at \$5, \$7.50 and \$10. Write your wants and for catalog; it will pay you.

H. J. RILEY

Box A

BRYAN, OHIO



Rose Comb Anconas

Winners of first cockerel at Coliseum and Greater Chicago Shows, first pullet at Coliseum, second pullet at Greater Chicago

Buff Orpingtons

Stock Raised from prize winners at Greater Chicago show. If you want birds to weigh and lay and pay, try Buff Orpingtons.

Eggs for Hatching

Write for my mating list. I can please you with the fine quality and remarkable values I am offering.

H. T. WINDSOR

BATAVIA, ILL.

Single Comb Black and Buff Orpingtons

Winners at Chicago, Des Moines, Omaha, Cedar Rapids, Dubuque and St. Paul. At the late Davenport Show I won on Blacks, 1st and 2nd cock, 1st and 2nd hen, 2nd cockerel, 1st and 2nd pullet, 1st pen and Sweepstake pen of the entire show. On Buffs I won, 1st cockerel, 1st cock and 5th young pen, also club ribbon for best colored male and club ribbon for best shaped male. If you want Orpingtons that win and lay, write me your wants. Stock for sale. Send for mating list.

O. M. BROWN

Box G

SLATER, IOWA

Pure Bred Day-Old Chicks

America must grow more poultry this year so let us all do our bit. We will help you in your needs; we have free range stock. White and Barred Rocks, Rose and Single Comb Reds, White Wyandottes, Buff Orpingtons, Anconas, White and Brown Leghorns. Get our free catalogue

Wolf Hatching & Breeding Co.,

Dept. B, Gibsonburg, Ohio

MEYER'S Black Langshans

WINNERS of more prizes at America's greatest shows than any other strain of Black Langshans in the World. Eggs from my all star matings \$5.00 per 15 or \$9.50 per 30. Write for my free mating list and catalogue.

W. A. MEYER

Box E

Bowling Green, Mo.

BUTTERCUPS

101 BIRDS PLACED 117 EXHIBITED

Is our record during the past season at Madison Square Garden, N. Y., State Fair, Oxford, N. Y. (Club Show), and other places. Largest breeders of Buttercups in New York and New England. 20 pens mated for breeding.

1918 Catalogue Free. Inquiries promptly answered.

HIDDENHURST BUTTERCUP YARDS, Box A2, SHARON STATION, NEW YORK

Speckled Sussex

Pedigreed Cockerels, Pullets and Eggs, bred for their laying qualities from prize-winning males and females at Madison Square, Chicago Coliseum, Palace, New York State Fair, Philadelphia, Keystone Poultry Association, Doylestown, and other shows. Bred first to lay, second as show birds, secured by trap-nested pens, hatched under hens from the best laying females, each egg marked when laid, giving number of hen and pen, duly branded with colored spiralets when hatched, and continued to full-grown birds. Write for prices.

T. CADWALLADER

DOYLESTOWN, PA.

RUF'S WHITE WYANDOTTES

Win again at the Greater Chicago Show, January, 1918. Gold Medal, Special, First and other prizes.

STOCK AND EGGS REASONABLE

FRED A. RUF

Crown Point, Ind.

Jacobs' S. C. White Orpingtons

Winners at Indiana State Fair, Chicago Coliseum and Indianapolis.

Eggs! Eggs! Eggs! That are guaranteed to hatch. - - - Send for free illustrated mating list.

Frank W. Jacobs - 2027 W. Nichol Ave. - Anderson, Indiana

IMPERIAL BUFF WYANDOTTES

Winners this season of Best Display at Chicago Coliseum and Cleveland.

GRAND BREEDING COCKERELS

HATCHING EGGS

Send for my free booklet on Buff Wyandottes. High class New Zealand Red Rabbits. Chicago and Cleveland winners. W. F. Schultz, Box 97, Cuyahoga Falls, O.

Now, from the point of the fancier, I do not believe there is a breed in existence that will breed as true to type and color as our high-class White Plymouth Rocks, with as small percentage of culls. There are several reasons for this, one of which is that one man in originating one of our oldest strains bred them for fifteen years before introducing them to the public, during which time he marketed or disposed of every individual bird that did not come up to what he considered his standard, thus stamping their type and color so strong that even the inexperienced breeder could breed them to a wonderfully uniform flock. And there are several other flocks which have been originated in very much the same manner today. It has happened several times in some of our largest shows, take as an illustration the line of cockerels; the first six or seven birds were so near alike and so near perfection that there was only a shade of difference in the first prize cockerel and the sixth prize cockerel.

Now a word as to breeding and mating from my own practical experience, which would apply also to Barred Plymouth Rocks, outside of color. Let us take the first, the most important, considerations, which must be health, vigor and stamina, for without these no flock of fowls can be profitable for either fancy or utility, and another important feature is free range. These things we read about often but few breeders realize the all-importance of them. In mating White Plymouth Rocks we must select specimens that are pure white, including quills, with the pink pin feather, and if you have not got such birds you had better get a start of birds that are pure white and whose blood lines will reproduce birds that are white; and we must select specimens with deep, full breasts; long, wide backs; broad across the saddle and tail, with tail low and well spread; and also another thing I consider a valuable feature in a male from which to breed is a short tail, fully furnished and well covered, and in order to get birds with a nice sweep to the tail, saddle feathers running onto the tail without a break, we must breed from birds with deep, full breasts.

There is probably one mistake that breeders of all kinds of poultry make, and that is breeding from too many birds in the start. That is, if you have only one female and one male with these requirements and that will give you the desired results, I would only breed from that one pair the first season, and then you are right so far as you have gone. Then, the next season, if the objectionable features of the sire are not shown to any great extent, you can breed him to the best daughters, or, better still, if you had a half-brother to the first male, and at the same time possessed his good qualities, you could use him in ideal fashion, and in this manner using each season a male containing some of the blood of the first male and never using a bird of either sex with any serious defect, such as a bad eye or narrow tail, etc., you will be well paid for your time of study in the matings.

Questions and Answers

Conducted by
Prince T. Woods, M. D.

Questions about poultry are answered in this department free for all readers of American Poultry Journal. Where answers are desired by mail, a stamp for reply is requested. Address all query letters to the managing editor, Dr. Prince T. Woods, Lock Box 4, Silver Lake, Mass.

Beginner's Questions.

Q. (1) What is the difference between a fowl and a pullet?

A. (1) The name fowl generally applies to the domestic cock and hen. It is also applied to poultry in general and to birds collectively, as wild-fowl, sea-fowl, water-fowl, domestic fowl, etc. In market usage a fowl is a hen. The name pullet is given to the female domestic fowl under one year old. In common usage the name pullet is applied to the female domestic fowl until the bird ends its first year of laying; thus the eggs laid from the first egg until the close of first twelve months of laying are said to have been produced in the pullet-year and to be the pullet's record. A pullet, according to the Standard, becomes a hen when one year old, but in common use of the name she remains a pullet and does not become a hen until the end of her first year of laying.

Q. (2) What is the difference between a cock and a cockerel?

A. (2) A cock is a male fowl one year old or older. A cockerel is a male fowl less than one year old.

Q. (3) What two birds is it that breed?

A. (3) The male and female. Generally mating a cock with pullets and a cockerel with hens gives best results. Cocks are mated with hens and the mating continued as long as the results prove satisfactory. Cockerels may be mated with pullets if both males and females are fully matured—full grown and well developed—and are strong, vigorous and healthy.

Q. (4) How long does it take eggs to hatch?

A. (4) Twenty-one days. The period of incubation may show some variation, the eggs

of small, active varieties hatching in from 19 to 20 days, while the large varieties hatch in from 20 to 21 days.

Q. (5) Which two breeds would you advise a beginner to raise, White Plymouth Rocks, Barred Plymouth Rocks or Leghorns?

Lewiston, Me. H. J. D.
A. (5) Would advise a beginner to try but one variety. Choose whichever one you like best; you will not be disappointed in any one of those named.

House Questions.

Q. (1) What is the correct way to build a brooder house?

A. (1) That is a pretty big question to be answered in this department. There are many good types of brooder houses and much depends upon the type of brooder to be used. You will find the various types of brooder houses discussed in the leading practical books on poultry keeping. In February issue you will find reference to colony brooder houses for use with coal-burning brooder stoves. If you will look thru your back numbers of the American Poultry Journal for past few years you will find numerous articles covering brooding houses of the colony type. You can obtain plans for a good colony brooder house for use with a coal-burning brooder stove by applying to "Poultry Investigations," Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C.

Q. (2) Do brooder houses that are made portable give better results, all things considered, than permanent buildings?

A. (2) The portable colony house is considered more economical and satisfactory since it can be made useful thruout the whole year and it can readily be moved to new ground,

giving the broods the advantage of being grown on fresh and uncontaminated soil.

Q. (3) How would you build an incubator cellar? Size, ventilation, etc.?

A. (3) For reply to this would advise you to consult several of the standard poultry books covering the subject. The size of the cellar will depend upon how many machines and what sort of machines you intend to operate. For one or two machines, or even more, a good house cellar answers very well. Would not want to build a special incubator cellar smaller than 12½ x 25 ft. with side walls 8 ft. stud and a double pitch roof. Side walls of brick or cement, 5 ft. high and in ground about 3 ft., balance banked with earth to just below windows. Ventilation thru windows in wood walls above the brick. Double windows,

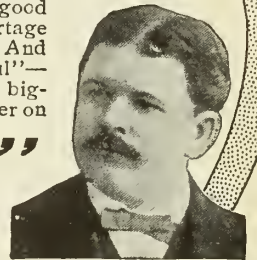


First prize White Plymouth Rock hen at Milwaukee, January, 1918. Owned by Adam F. Polt, Hartford, Wis.

The Country Needs Millions of Chickens —You Need the "Successful" Incubator

Hatch Two Chicks, Where You Produced Only One Before

Successful Incubators will do it, and the country needs every chick you can raise. Never have poultry raisers had a bigger chance to help the country and make good profits themselves. Help prevent a great meat shortage—raise more chickens—get more eggs—sell more meat. And this year of all years you need the time tried "Successful"—backed with 25 years of experience—the machine used by the biggest money makers in the poultry business. Write for my 1918 offer on



J. S. GILCREST, President
Life Member American Poultry Association

"SUCCESSFUL" Incubators and Brooders

The only incubator I know of guaranteed to be cabinet made. The only hatcher that heats around the colder edges of the body first. Guaranteed to vary not over a fraction of one degree throughout the entire hatch—because of the fact that our own patented lamp and water thermostat regulator are 99.9-10 per cent perfect.

Sold Under the Strongest, Most Liberal Guarantee to Hatch a Chick from Every Hatchable Egg

"Successful" Incubators have been built and sold for twenty-two years. "Successful" Brooders, too, are built too good to compare with others. Raised floor, glass drop top, real hot water heating plant, rain and cold proof. Write for catalog and prices.

Poultry Lessons FREE

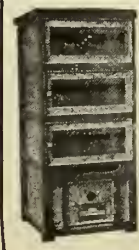
to every buyer of a "Successful" Incubator or Brooder. Famous little booklet, "Proper Care and Feeding of Chicks, Ducks and Turkeys," sent for 10 cents. Big catalog is free. Send for it.

J. S. Gilcrest, Pres. and Gen'l Mgr.

Des Moines Incubator Co.
1 Second St.
Des Moines, Iowa

Get 50 Per Cent More Eggs

Feed sprouted oats. Change 1 bushel oats into 3 bushels green, tempting, egg-making food with a "SUCCESSFUL" Grain Sprouter. Made in all-steel sections, fire-proof—double steel walls, separate sections. Save one-third on feed cost. Write now for circular and prices.



Don't overlook the fact that "Successful" Incubators have had 25 years of experience. Write for my 1918 offer.

If interested in hatching in big numbers, state hatching capacity desired and write for special proposition

WALHALLA

Buff Orpingtons

Buff Minorcas



The Strains of Quality

Here Are Several Reasons Why You Should Buy from Us

1. Look at this record made in two shows:

BUFF ORPINGTONS

Michigan State Fair, 1917—3 firsts, 2 seconds, 3 thirds, 3 fourths and 2 fifths. Chicago Coliseum, 1917—4 firsts, 4 seconds, 2 thirds, 3 fourths, 1 fifth and 5 silver cups.

BUFF MINORCAS

Michigan State Fair, 1917—3 firsts, 2 seconds, 3 thirds, 3 fourths and 2 fifths. Chicago Coliseum, 1917—6 firsts, 4 seconds, 3 thirds, 3 fourths and 2 fifths.

2. The above winnings, together with our other sweeping victories, unequaled by any Buff Orpington or Buff Minorca breeder, stamps our strains supreme.

3. Not only do our birds win prizes, but our birds also have been carefully line-bred for years and they will transmit their own good points to their progeny; they also have the breeding and blood lines in them that make certain their producing qualities, as show birds, breeders and great layers.

4. Hatching Eggs from our birds which are bred in a rugged northern climate and raised on unlimited free range have a very high percentage of strong fertility.

5. Baby Chicks hatched from such eggs are full of "pep," as lively as crickets and are able to stand shipment to any part of the country.

6. A breeder who has only a few exceptional birds is not going to supply many customers with hatching eggs, but when a breeder has an extra large number of big show winners as we have (every pen in both varieties is headed by a prize winner) the customers are sure to get some exceptional good quality in Hatching Eggs or Baby Chicks.

7. Our 1918 matings in both our varieties cannot be equaled. Eggs from these matings are bound to produce chicks which will win the highest honors for you next season in the strongest competition.

Something for your serious consideration before placing your egg and baby chick order.

PRICES ON HATCHING EGGS

Special Matings	.....\$15.00 per 15; \$25.00 per 30	Farm Flock
Exhibition Matings	..... 10.00 per 15; 18.00 per 30	\$ 8.00 per 50
Quality Matings	..... 5.06 per 15; 8.00 per 30	12.50 per 100

GUARANTEE—All infertile eggs replaced free.

PRICES ON BABY CHICKS

	From Exhibition	From Quality	From Farm
12 Chicks	\$10.00	\$ 6.00	\$ 3.50
25 Chicks	20.00	10.00	6.50
50 Chicks	38.00	18.00	12.00
100 Chicks	70.00	35.00	22.00

Safe arrival guaranteed.

Book your order for Baby Chicks and Hatching Eggs well ahead of desired date of delivery. It is the only safe way to avoid disappointment, the demand is likely to be greater than the supply.

Write today for our new mating list—it's free.

We still have a very large line of Selected Breeders. Male birds that will stamp the quality on your flock. Females that will lay eggs and produce fine chicks for you. Cocks or Cockerels from.....\$5.00 up to \$50.00

Hens or Pullets from..... 5.00 up to 25.00

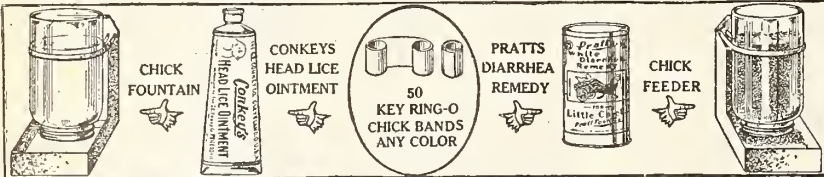
Pens mated with the utmost care of high producing quality from \$25 to \$100. All stock is shipped on approval. You can return any bird not satisfactory and your money will be refunded.

Walhalla Poultry Farm

Carl E. Schmidt, Owner
Edw. F. Schmidt, Poultry Manager

R. 1, Oscoda, Mich.

The 1918 CHICK-ECONOMY COMBINATION



- 1 Chick Feeder (without jar) . . . 15c
- 1 Chick Fountain (without jar) . . . 15c
- Head Lice Ointment . . . 15c
- White Diarrhea Remedy . . . 30c
- 50 New Coil Leg Bands . . . 50c
- 50 Key-Ring-O Bands . . . 50c

Value . . . \$1.75
Our Advertising Offer . . . 1.22
You save 30% or . . . 53c

Every year we get out a **Key-Ring-O Combination** to advertise and introduce this celebrated leg band. This year's offer is one for **safety and economy**. You must raise your chicks this year safely and economically. For **safety** we include a regular 15c tube of Conkey's Head Lice Ointment and a regular 30c package of Pratt's White Diarrhea Remedy. Then you get a **Drinking Fountain** and a **Chick Feeder**—the latest style out, and a good one. Then we include **50 New Coil Chick Bands** that will last for years and enable you to mark each chick easily and quickly. And then in addition to the above you get a coupon that we will exchange (after you know just what colors and size you want) for 50 of the celebrated **Key-Ring-O Leg Bands** any size or color.

Surely you will agree that this year's **KEY-RING-O COMBINATION** gives you **SAFETY and ECONOMY** when we tell you that the entire outfit will be mailed postage paid for only \$1.22 and if you can duplicate this combination elsewhere for \$1.75, you may return it to us and we will immediately return your money, together with all postage you have paid. Isn't that fair? This is our method of advertising and you get the standard line of goods at our expense. However, we reserve the right to return money when our supply is sold out. Last year we returned 2527 orders that came too late.

C. H. GORDINIER, Dept. J, TROY, N. Y.

the outer sash hinged at top to swing out and the inner sash hinged at bottom to swing in. Rafters and ceiling sheathed with matched boards about 15 inches above level of plates.

Q. (4) Does an incubator cellar with a brooder house over it give good satisfaction?

A. (4) Many of the old-fashioned type of long brooder houses were built with incubator cellar attached and proved quite satisfactory. If we were going to build, we should have incubator cellar separate and, if going into the work extensively, would build the cellar to accommodate a modern mammoth machine.

Q. (5) Can the Woods' house be used with good results for brooding chicks?

A. (5) The 10 x 16 ft. size is being used very successfully with coal-burning colony brooders. The light partition is used to partition off the low open-front section—muslin partition being sufficient except in extremely cold locations—giving a warm brooding room and a cool open-front exercise room.

Q. (6) Does it pay to keep 75 hens over their third winter that average 147½ eggs their first twelve months, October to October? They are S. C. White Leghorns.

A. (6) Much will depend upon their condition and the circumstances. They might prove very useful as breeders if in good health and vigor.

Q. (7) Does it pay to force the molt with laying stock?

A. (7) Ordinarily, no. In some cases it may prove a good plan to put the flock on short rations on liberal range during hot mid-summer weather, then as cold weather approaches gradually work them on to the regular laying ration, using cooked vegetable mash and raw vegetables or other green stuff freely. This plan is almost certain to be followed by a prompt and quickly finished molt. Birds so molted, on good-sized, well-shaded range, generally make a fine clean molt and take up fall and winter laying in excellent condition.

Q. (8) Is it best to force pullets for early laying, say, at 4½ to 5 months old, or have them start at 6 months?

A. (8) Precocious pullets are seldom satisfactory layers and do not keep up their yield well. We would prefer the birds which develop well first and then begin laying, at 6 months for Leghorns.

Q. (9) How early can Leghorns be hatched in the spring and not have them molt in fall of same year?

A. (9) That depends a good deal upon the care and management of the birds and upon the season. To be safe in your section, April and May hatches would be best.

Q. (10) Does a pullet that molts out her first fall, the same as a yearling, take as long to get back on the laying job?

A. (10) This, too, depends largely upon the care and management. We never let fall molt of pullets worry us. Early pullets, if they molt, usually molt quickly and get down to the business of laying promptly if properly cared for. We have carried February hatched pullets thru without a molt, and other seasons have had April hatched birds, receiving same sort of treatment, molt heavily, although very little time was lost from egg production.

Q. (11) Which is best, to let birds run in the winter, or keep them housed from fall until spring?

A. (11) That depends upon your location and the winter. If ground is dry and there is a bare spot of earth not covered with snow, we like to let them run on fair days when there is not too much raw wind. If they can have a litter of straw, corn stalks or pine needles to scratch over out of doors it will do them good. Don't let them run in deep snow or in sloppy mud and slush.

Q. (12) How much yard or run should the birds have for permanent runs, that is square feet per hen?

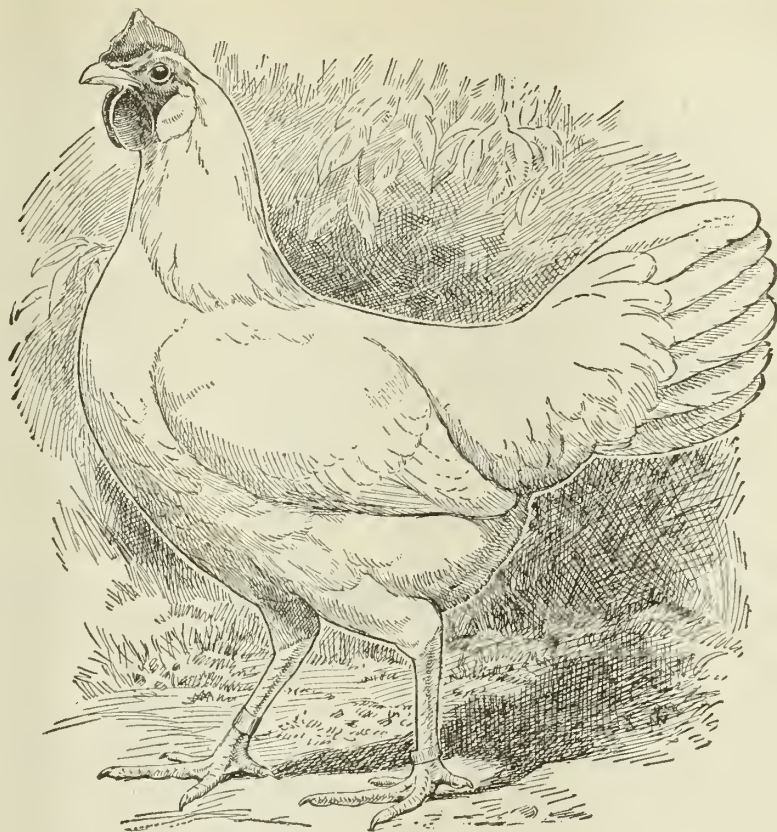
A. (12) Sixty-five to seventy-five square feet of yard room per bird.

Q. (13) How many fowls can be comfortably housed and yarded on an acre of land?

A. (13) Four hundred.

Q. (14) I have a building 12 x 50 ft. and could make it 24 x 50 ft. to good advantage. I was thinking of putting a cellar under it for an incubator cellar and using it for a brooder house. Now, I am told that a portable house makes the best brooder house. Thought of putting the cellar in just the same and using the house for grown fowls, but have been told that narrow yards are a

LARGE WHITE CHEAP WINTER EGGS!
ANCONAS THE GREATEST EGG BREED
 FREE LITERATURE ON REQUEST
 UNITED ANCONA CLUB FRANKLINVILLE N.Y.



Lady Laymany
480 Eggs in
2 years

YESTERLAIDS ARE MONEY HENS

Profit is fixed in the blood of Yesterlaid Leghorns. It does not require expert care to make a success with them. On January 20th a Yesterlaid customer writes up in New England, where the temperature went 20 below zero during the cold spell in January writes us: "My Leghorns surprised me. I had been told that this climate was too severe for Leghorns—just to show you how mine went through the spell—in the week December 22nd-28th, I had 44 dozen eggs. December 28th to January 3rd, 48 dozen, January 3rd to 19th, 46 dozen and they are now laying 40%. One of my old hens in the trapnest pen started on her second year in the coldest weather, she laid 216 eggs the first year. Another who laid 230 last year has also started on her second year."

Yesterlaid Single Comb White Leghorns are far superior to the average hen. They lay better in winter and cost less to feed. You can raise three Yesterlaid hens at the cost of two ordinary chickens, because they are vigorous, thrifty and quick-growing. Yesterlaid pullets lay enough eggs to pay their cost of raising before pullets from average hens begin to lay. They are big chalk-white eggs, hatch like popping corn and hand down superior vigor of the parents to the chicks.

Yesterlaid hens are supreme among Leghorns. This is evidenced by their constantly growing popularity, by reports from great numbers of pleased customers, and by the fact that twenty-four State Institutions and Experiment Stations have bought Yesterlaid hens.

Constitutional Vigor Insures Success

Careful, purposeful, selective breeding for vigor is the keynote of Yesterlaid's wonderful success. Buy Yesterlaid hens on the merits of vigor alone and you are sure to get what you want. Not a single female is used in Yesterlaid breeding flocks unless it is the unanimous verdict of Yesterlaid skillful specialists that she is perfectly fitted to reproduce her kind. These specialists are aided in their personal judgment of a breeding hen by the carefully kept records of the daily and yearly performance of the in-

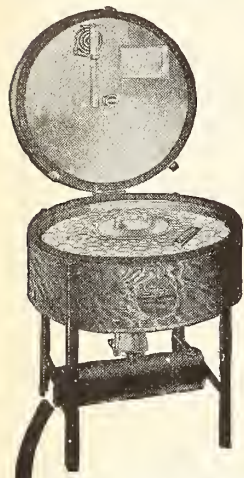
dividuals, and of the flocks of Yesterlaid layers. Every Yesterlaid breeding pen carries the blood of hens that have laid 445 to 480 eggs in two years. The individuals in these pens are the result of more than a decade of diligent, painstaking study and breeding experience. They are pure line-bred Yesterlaid hens. They have never been out-crossed with English or other foreign blood. They rank high as show birds and breed true, generation after generation.

Yesterlaid prices are very reasonable.

Valuable literature giving further details of how this wonderful strain of Leghorns has been developed—how it is fed and housed, will be gladly mailed to you free on request.

Yesterlaid Egg Farms Co. - Dept. 5 - Pacific, Mo.

Greatest Incubator



DISCOVERY IN 50 YEARS
SOFT-HEAT TUBELESS

Natural Soft Warmth of the Hen and Absolutely Uniform Temperature Over All the Eggs Attained for First Time in Artificial Incubation, in Marvelous New Porter Incubator

I THOUGHT when we discovered the center lamp, center heat idea years ago that perfection had been reached in incubator designing. But now I have improved 1,000 per cent on any other hatcher we know of. Note the lid of the new Porter Incubator—a complete radiator plate.



Gives vastly more radiation than old tube system and spreads the heat evenly over all the eggs. Another greatly advanced but common-sense principle: Combination hot water and warm air. This unit, as arranged in the Porter, produces the moist hatching warmth of the hen herself, making big hatches certain and all stronger, better chicks. Nothing like it ever before used. Heat, Moisture and Ventilation are automatically controlled. No responsibility on user, no worry, no trouble. I want to tell you all about this wonderful machine. Fill out the coupon below or write us a postal for our

Big New Illustrated Book FREE

Explains fully the Soft-Heat and Tubeless principles and 26 superior features of the Porter Incubator. Shows how every important action is automatically controlled and regulated; eggs turned without removing tray; hatches on one filling of tank and less than gallon oil; no gas or bad odors. Also full information about Porter SUXESS Double Brooders. Don't waste your time and eggs on ordinary hatchers. Get a Porter. Send today for our book.

Porter Incubator Co., Blair, Neb. Send me post-paid your FREE book on Porter Incubators and Brooders.

Name.....
Address.....
State..... R. R. Box.....

PORTER INCUBATOR CO.
Dept. 38 Blair, Nebraska



Porter Round, Jr.

failure after they have been used a while. I could make a two-story poultry house of this building, using cellar and all, but am at a loss to know what is best to do. I want to put this building to working to best advantage. It is the shape of a box-car with flat roof. Full size two-sash windows on one side, facing southeast. House is on posts and about 3 ft. above ground level. I have 300 layers, doing fine. Expect to install a mammoth incubator and want to get straightened out.

DuBois, Pa.

M. B. D.

A. (14) Narrow yards are likely to become badly fouled with droppings in time. It is best to have yards that can be plowed and cropped every other season and plowed up and planted to green stuff each season while in use by fowls, in order to keep soil sweet. Why make extensive alterations in the house? As it is 12 x 50 ft., it can be made useful for the operation of two colony brooder stoves and made to brood 700 chicks, 350 to each stove, to good advantage. Divide the house into four rooms, two for use of brooder stoves as brooding rooms and two as cool exercise rooms for the growing chicks. When the chicks no longer need brooding the stoves can be moved to other buildings and the birds matured where they were brooded. You can arrange outdoor run with portable fence panels and keep the soil sweet by frequent cultivation. Better plan an incubator cellar such as is recommended by the manufacturer of the mammoth incubator you intend to install.

Normal Temperature of a Hen.

Q. Saw a statement that "The temperature of a laying hen's body is 98 degrees. The temperature of a sitting hen's body is 103 to 106 degrees." Is this correct?

Baltimore, Md.

C. F. A.

A. It is not. The average normal temperature of the human body is 98.6 degrees Fahrenheit. The average normal temperature of the domestic fowl, with thermometer in rectum, is 106 degrees F. There is more or less variation with different individuals and under differing conditions. In tests of broody hens rectal temperatures have been noted ranging from 103 to 110 degrees F. Birds in each case apparently in normal health. The body temperature of hen taken each day during incubation has shown following variation in degrees F. from first to twentieth days, inclusive: 102.2, 103, 103.5, 104, 103.8, 105, 104.6, 104.5, 105, 104.8, 105.2, 104.5, 105, 105.2, 105, 104.6, 104.8, 104.5, 104.5. The internal temperature of the eggs was taken during the same period and showed a temperature range from 98 degrees on the first day to 103 degrees on the twentieth day. See page 66 of "The Development of the Chick," by Frank R. Lillie.

Mating Anconas.

Q. (1) I have ordered one \$10 sitting and one \$15 sitting of Ancona eggs from same breeder. Will I be using good judgment in mating the best from both sittings?

A. (1) If the chicks develop well and are healthy, full grown and vigorous at mating time next season, would mate them, taking care to balance defects in one mate with strength in same section in the other. Would describe your birds in a letter written to the breeder who supplied the eggs and ask him for advice on mating. He knows what is back of the birds, or should, and can advise you better than anyone else.

Q. (2) Have a cistern for rain water. There must be dead rats or something in the water, as it is not fit to use. Please suggest a way to clean it out. It is 20 ft. deep.

St. Clair Boro, Pa.

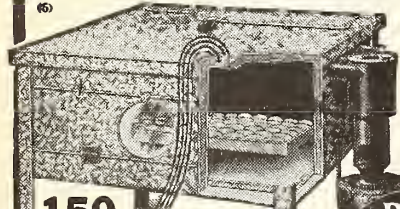
J. F. B.

A. (2) Pump out all water. Leave top of cistern open for a while to give it a chance to air out. Do not go down into the cistern until you have first lowered a lighted candle

Ironclad Wins in the Two BIGGEST HATCHING Contests Ever Held

Why take chances with untried machines when for only \$11 we guarantee to deliver safely, all freight charges paid (East of Rockies), BOTH of these big prize winning machines fully equipped, set up ready for use?

Why not own an IRONCLAD—the incubator that has for two years in succession won the greatest hatching contest ever held? In the last contest conducted by Missouri Valley Farmer and Nebraska Farm Journal, 2,000 Machines were entered including practically every make, style and price. With the Ironclad—the same machine we offer with Brooder freight, paid for only \$11, Mrs. C. F. Merrick, Lockney, Texas, hatched 148 chicks from 148 eggs in the last contest.



150 EGG Ironclads are not covered with cheap, thin metal and painted like some do, to cover up poor quality of material. Ironclads are shipped in the natural color—you can see exactly what you are getting. Don't class this galvanized iron covered, dependable hatcher with cheaply constructed machines—and don't buy any incubator until you know what it is made of. Note these Ironclad specifications: Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering, galvanized iron legs, large egg tray, extra deep chick nursery—hot water top heat, copper tanks and boilers, self regulator, Tycoos Thermometer, glass in door, set up complete ready for use and many other special advantages fully explained in Free Catalog. Write TODAY or order direct from this advertisement.

Both for \$11 Freight Paid East of Rockies

30 Days Free Trial

Money Back if not Satisfied



150 Chick Brooder

IRONCLAD INCUBATOR COMPANY, Box 43, Racine, Wis.

PEARL

THROW PEARL TO POULTRY AND WATCH RESULTS!

GRIT T.O.M.G.

Every Hen an Egg Factory

They can't help laying when they get PEARL GRIT with their feed. It begins to work in the crop, chews the food in the gizzard, adds sulphur and carbohydrates for eggs, lime for shells and silicon for feathers. Free Booklet.

"THE DOUBLE PURPOSE GRIT"

Feeds how to feed for egg production. Write today.

THE OHIO MARBLE CO.
74 Cleveland St.
Piqua, Ohio

to the bottom. If the candle burns brightly it will be safe to go down; if candle will not burn, it is not safe to enter the cistern until the heavy gas has been pumped out and fresh air forced in. Scrub walls and floor until clean and cement up any rat holes. Rinse the walls several times with clean water applied with a hose or force pump. Be sure that all pipes are clean before you let it fill up with rain water.

Blood Meal.

Q. (1) Will blood meal in any quantity take the place of beef scrap or fish meal in the dry mash for laying hens?

A. (1) Blood meal carries about 74 percent protein, or about 15 percent more than good average scrap, and carries about one-half as much mineral matter as beef scrap. Where mash formula calls for 17 to 20 percent meat scrap, use not over 15 percent blood meal.

Q. (2) As long as the feed is a "balanced ration," will a change of feed during the laying period have any effect upon egg production?

A. (2) Any radical change in ration is likely to affect egg production.

Q. (3) What application would you suggest for applying to sore feet of ducks? Bottoms of feet are affected and are sore and cracked. Quarters are clean.

Wheeler, Wis. J. W. LeB.

A. (3) Be sure that the duck house floor is dry and kept littered with draw straw.

Rake up all sharp stones in runs. Wash feet with warm, soapy water, dry, and apply camphorated petrolatum.

Hens Die After Laying.

Q. Kindly tell me probable cause and prevention of one-year-old White Leghorn hens dying on the nest after laying an egg. Apparently in perfect health, good flesh, not too fat, death appears to come immediately after laying the egg. Opening does not close and sometimes the parts protrude. I have had three cases in three weeks from same colony of 50 hens. I have six other colonies but no such results with them. This affected colony are inclined to be somewhat wild. They are ravenous eaters and are getting the range of an acre of ground.

A. D. B. Buena Vista, Fla.
A. Trouble looks like apoplexy following straining at laying time. Probably due to excess of internal fat. Do not feed heavily on fattening and heating foods. Avoid use of cottonseed meal in mashes.

More About Blood Meal.

Q. Is blood meal as good as beef scraps or fish scraps? Why is it seldom mentioned in feeding formulas? It is easier here for us to get a good blood meal than to get a good grade of beef or fish scraps, and it is as cheap. Is it harmful to chickens?

Wakarusa, Ind. E. M. I.

A. Good quality blood meal is an excellent animal food for poultry and may be substituted for beef scraps or fish scraps. It is usually more concentrated than average beef scrap and should not be fed as freely. As a general rule, 75 pounds of blood meal will take the place of 100 pounds of fine beef scrap in the mash mixture. Analyses give composition as follows:

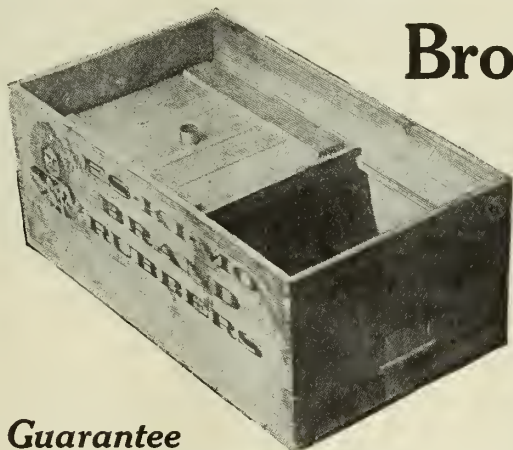
	Blood Meal	Beef Scrap
Water	9.6	1.3
Fiber	2.2	....
Ash	3.8	8.0
Protein	74.1	58.0
Starches	8.8	....
Fat	2.1	32.9
Nutrient ratio	1:0.2	1:1.4
Calories in 1 ounce	103	154

Blood meal is deficient in fats as well as in ash. When it is used, corn may be fed more freely and a liberal amount of green food and fresh vegetables should be fed. If diarrhoea follows the use of blood meal in the mash, use less of it.

Black Minorcas for Back Yard.

Q. (1) Would you consider S. C. Black Minorcas good birds for back lot poultry keeping?

A. (1) Yes.
Q. (2) Do you consider them good layers?
A. (2) They are excellent layers of large white eggs.



Guarantee

I guarantee the Putnam Brooder Heater to give satisfaction or it may be returned to me within 30 days of receipt and the money paid for it will be refunded.

Brooder Complete \$2.96

Cut herewith shows the Putnam Home Made-Brooder—Complete

This Year Save Your Baby Chicks
Either those you hatch yourself or those you buy—and do it at small cost in every way.

← SEE SAMPLE BROODER AT LEFT

The materials used to make it were one shoe box; one-sixth yard of oil cloth and one Putnam Brooder Heater. The total cost, including Heater, was \$2.96. A 14-year-old boy can build one in an hour with no tools but saw and hammer. This Brooder will accommodate from 35 to 60 chicks and will take better care of them than any Brooder made, no matter how elaborate or expensive. Build one NOW and have it ready for the young chicks when they come. Write for plans for making this Brooder and testimonials from satisfied users. I will send you the plans FREE.

Advantages of the Putnam Home-Made Brooder

Requires filling BUT ONCE A WEEK—no other attention. Patented principle—EFFICIENCY guaranteed. Thousands in use. Every OTHER BROODER must be filled and trimmed SEVEN TIMES a week.

Putnam HOME-MADE BROODER is adapted to any size plant from 25 to 60 chicks in one brooder to any greater number desired; simply use more brooders. Is particularly adapted to needs of small breeder and back-lotter who aims to produce one lot of chicks or a few dozen.

No other brooder on the market is EASIER or more SIMPLE to operate; none uses SO LITTLE OIL per chick; brooder consumes less than a gallon of oil A MONTH. Send for and read the testimonials.

Putnam BROODER HEATER is so constructed that it acts LIKE AN OPEN FIRE PLACE, carrying the foul air out and drawing the fresh air in, thus providing PERFECT VENTILATION AUTOMATICALLY.

Heat is radiated from ABOVE onto the backs of chicks, giving the natural and soothing effect OF THE HEN—without the lice.

Hover is so constructed that chicks FIND EXACT TEMPERATURE THEY LIKE. Adjustable hover takes care of any season from February to July.

Putnam HOME-MADE BROODER CAN BE OPERATED ANYWHERE—in a sunny room in a house, an open shed, or, if a roof be built on it, out of doors; can be CARRIED ANYWHERE by a half-grown boy.

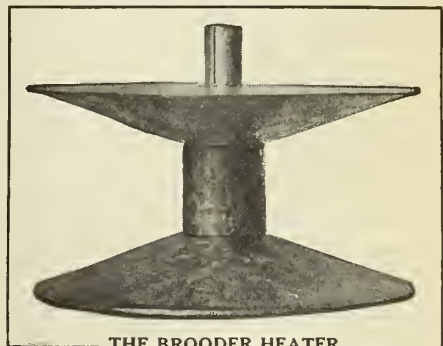
No other brooder is easier to clean and disinfect. Simply lift out hover and heater—brooder can then be emptied of litter and be disinfected.

Brooder Heater is made of brass and galvanized iron—IS PRACTICALLY INDESTRUCTIBLE.

Capacity of Putnam HOME-MADE BROODER IS ELASTIC. When chicks require more exercising space heater and hover can be placed in larger box or other structure. THE BROODER GROWS WITH THE BROOD.

Floor of this brooder is even with the ground and therefore chicks do not have steps or inclines to learn, thus avoiding loss from rain or chilling.

To summarize: At no price, HIGH OR LOW, can a brooder be bought so economical in first cost, also in fuel and labor—so simple and EASY TO OPERATE, so perfectly ventilated, or one that will so surely raise HEALTHY AND VIGOROUS BIRDS.



THE BROODER HEATER
Price only \$2.75 f. o. b. Elmira

HOW TO ORDER: I do not sell the Putnam Home-Made Brooder. I sell the Brooder-Heater only. It weighs, packed for shipment, 5 pounds. The price of the Heater is \$2.75 Elmira or \$2.98 prepaid east of the Rocky Mountains. With every Brooder-Heater I will send EASILY FOLLOWED DIRECTIONS for building the Home-Made Brooder. When ordering, give both your post-office and nearest express office. Can order direct from this advertisement to save time. Reference, by permission, Editor this Journal.

I. PUTNAM

Route 305

ELMIRA, N. Y.



Unretouched photo of a couple of "Aristocrat" Barred Plymouth Rock females. Owned by W. D. Holterman, Box A, Fort Wayne, Indiana.

Q. (3) Why is it that they are seldom entered in the egg-laying contests? I have room for fifty or more birds on my back lot and want hens that will lay.

Paterson, N. J. J. J. H.
A. (3) We believe that you will find the Black Minorcas entire satisfactory. We do not know why this variety has not been better represented at the laying contests. Comparatively few breeders show interest in the laying contests or realize the opportunity which is afforded them to boost their favorites. Unquestionably the buying public places a considerable value upon the "official records" in egg production secured at such contests; perhaps even greater value than the actual facts

warrant. Still it is a good opportunity to secure publicity if one can pick out birds that are certain to make good egg records.

Mating White Orpingtons.

Q. (1) I have 18 fine White Orpington females of two distinct strains, 9 of each. There is a marked difference between the two strains, and a stranger, if he knew anything about poultry, could tell them apart. I have one fine cockerel of each strain. One is long in back and one is rather short in back. The females of each strain are about evenly divided, long and short backed ones in each strain. Should I breed all long backed females

with the short backed male, and reverse, or should I mate each male with his own strain females?

A. (1) Mate each male with females of his own strain. Keep a trap nest record of the hens, mark the eggs, and pedigree the chicks. In that way you will learn which parents give you the progeny of the desired type.

Q. (2) I intend to buy an incubator this spring and want an electric one. There are no electric machines around here. Does an electric machine hatch as well as the other types? Why is it that there are not more of them in use?

Saskatoon, Sask. D. J. H.
A. (2) Probably the reason that they are not in more general use is the difficulty of getting dependable current for running the machines. Such electric incubators as we have observed in operation have given very good results.

Moldy Corn.

Q. (1) I bought 200 lbs. of corn from a dealer at \$3.90 per 100 lbs. It was moldy, but I could get no satisfaction from the dealer, who says that all corn is moldy this year. I am afraid to feed it to my chickens and do not like to throw it away. Is there any way to make it fit to eat?

A. (1) A great deal of the 1917 crop of corn has molded badly or otherwise spoiled. However, with prices prevailing in Chicago at date of your letter, January 21, the dealer should have supplied you with better quality corn for the price you paid. It is not safe to feed moldy corn. If it is not very moldy, you can experiment with it. Wash the grain and then dry it in the oven. Boil the whole

BABY CHIX

:: STOCK ::

R. I. REDS BARRED ROCKS
POORMAN STRAIN

SILVER LACED WYANDOTTES
TARBOX STRAIN

My stock is all of good type and size, and the fact that it is from the above well known strains speaks for itself. Their utility qualities are highly developed and I know of no place where you can get as good value for your money

PRICES OF BABY CHICKS

100 Chicks, either variety.....	\$15.00
50 " " "	7.75
25 " " "	4.00

Six-Week Old Chicks—May Delivery

Per 100	65c each
Per 50	70c each
Less numbers.....	75c each

W. RHODES

DAKOTA, ILL

I also handle Incubators, Brooders and Supplies

MAPLESIDE BRED-TO-LAY

BARRED PLYMOUTH ROCKS

Are Known the World Over

They have gone to South Africa, Australia, Hawaiian Islands, Alaska, Canada and Mexico. Why not to you?

EGGS

\$2.....per 15; \$3.50.....per 30.
\$5.....per 50; \$10.....per 100.
Extra Selects—\$3.....per 15; \$5.....per 30.
Day old chix. Circular free.

O. F. MITTENDORFF

Box F

LINCOLN, ILLINOIS



**290 EGGS
IN ONE YEAR**

corn before feeding, boil until whole grain is soft. Feed sparingly and note results.

Q. (2) I have an oat sprouter but the oats are moldy and smelling badly now that sprouts are started. Would you feed it, anyway, or would you feed only the green tops?

A. (2) Do not feed the whole oat mat if it smells sour and is very moldy. Feed only the green sprouts. Next time make sure that your trays are clean. Scrub them with warm, soapy water and dry them in the sun. Wash the oats well before you put them in clean water to soak. Sprout quickly in a room which is not too warm. Feed the whole mass, roots, oats and all, as soon as you have sprouts half an inch long. If you do this you will not have trouble with mold.

Q. (3) I understand that corn is the best grain to keep hens warm in winter, but am told that it is too fattening.

Chicago, Ill. H. L. C.
A. (3) Corn is a good poultry feeding grain, probably the best. It does contain an abundance of heat and energy producing material and it is fattening. When feeding corn always feed plenty of greens and raw vegetables, also a good mash containing animal food, like blood meal, beef scraps or fish meal. Whole oats should be fed with the corn, about bushel for bushel, at this season. Later on, when warm weather comes, feed more oats and less corn. Do not let anyone sell you sour or moldy corn.

Palm Nut Meal.

Q. Where can I buy palm nut meal?
Toronto, Can. G. K.

A. We do not know of any dealer advertising it at present in America. It is advertised in English poultry papers. If your feed and supply dealer cannot get it for you, do not know where it can be secured readily under present condition of markets and transportation. Have had inquiries about use of palm nuts from the South and from California. One or two commercial mashes give palm nut meal among the ingredients used in their product. Write the Blatchford Calf Meal Co., Waukegan, Illinois; they may be able to advise you where to obtain palm nut meal.

Pullets Won't Lay.

Q. Can you help me and tell me what is the reason my pullets won't lay? I have 25 White Leghorns, March and April hatch, of a good laying strain, which laid only about six eggs in October and perhaps twelve in December. Have 25 Anconas which have laid only three eggs to date. Have May hatched Wyandottes from well-known strain that have never laid an egg. Nine Minorcas of established strain that never laid an egg, and these are March hatched pullets. The Leghorns are all from 200 and 234-egg record layers. The Wyandottes are out of a high record pen. Have tried different breeds for five years, and this winter am keeping these to decide between them. I can raise chickens and fatten them, but I cannot make them lay. I have talked to them and reasoned with them, but it does no good, altho they are very tame. They seem in excellent condition. Combs bright red and have been since early fall. My houses are old ones remodeled, clean and well ventilated, about half glass and half canvas front with good exposure. The birds have had warm water all winter. Always have charcoal, shell, grit, beef scraps, dry mash. The dry mash is made of equal parts corn meal, middlings, ground oats, gluten, with double quantity of bran, and one part of beef scraps and fish meal, half and half. Give scalded oats in morning, about 3 or 4 quarts, mixed grain, 2 or 3 quarts, and several ears of corn to 50 birds. Also feed cabbages. They have good litter. Have some Ancona yearlings that laid splendidly last summer, but are only just beginning to lay again now. The supply of mixed grain gave out the other day and I had to

S. C. W. LEGHORNS S. C. ANCONAS
THE WORKERS OF THE POULTRY WORLD

BABY CHICKS

from carefully culled flocks of the above two money-making varieties. "Laying ability" has been the keynote of my efforts, and as the birds have the best of free range in fruit orchards, the chicks are strong, lusty fellows, full of "pep."

Chicks of either of above varieties, each \$.20
In quantities of 100 or more, per 100 18.00*
Hatching Eggs, per setting 1.50

HATCHING EGGS

Per Setting \$ 1.50
Per 100 10.00

PYOTE POULTRY FARM J. W. Mirfield, Prop. CORDOVA, ILLINOIS

Meet The Big Demand for Baby Chicks

"Am so well pleased with Reliable Incubators and Brooders that I'm enclosing draft for 35 more 300-egg size and 25 hovers. Sold 65,000 chicks this spring; have 15,000 more hatching, many of them sold."
—Mrs. Clara Colwell, Smith Center, Kansas.

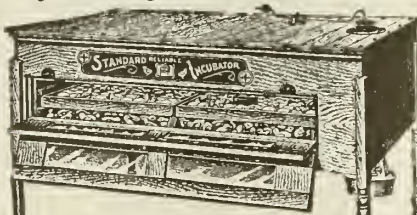


The American Poultry Association calls upon poultry raisers to increase their products. "If we can produce ten times a hundred million pounds more than in 1916 all the better; there's a demand for all we can produce."

J. W. MYERS, Pres. America's Largest Incubator Factory

Today's Urgent National Demand

offers professional poultry raisers and beginners, too, an unusual opportunity to combine patriotism with profit, in a greatly increased production of poultry. Even in ordinary times the demand for day-old chicks greatly exceeds the supply—advance orders are the rule. The nation calls. Are you ready to respond? Whether you wish to hatch chicks to sell or to raise, it's important to get an early start. Insure a successful early spring hatch with



STANDARD RELIABLE INCUBATOR

The Reliable has held first place in the incubator world for 36 years. Its leadership is more firmly established today than ever, because its distinctively superior hatching features have never been successfully imitated. It's the

ONLY Incubator With Enclosed Double Heating System—Insures Winter Hatching

The Reliable utilizes both the hot air from the lamp and the heat from large copper hot-water tank extending full length of egg chamber—a double safeguard against chilling—saves half the fuel. Patent heat regulator, tested by U. S. Government standard, automatic supply of moisture and ventilation, highest quality construction throughout, make the Reliable as nearly failure-proof and trouble-proof as an incubator can be built. Successful in any climate or altitude. Shipped ready to start all but attaching legs, which come detached to make compact package to save freight cost.



\$5

Brings you this high quality 90-egg Reliable Special Incubator. Built with same care and has same perfect regulating system as Standard Reliable. Double walls, outer wall of thoroughly seasoned wood; mahogany finished, hot air heated. Guaranteed to hatch any egg the hen can hatch. A real bargain—good work for years. I'm responsible and stand behind it. Order Now! Send cash or P. O. order.

REMEMBER: Reliable Incubators are exactly as represented in every detail. Every machine backs every claim made for it.

Built in any capacity desired, hot air or hot water, from 80-eggs to 2,000-eggs. Sold at lowest price consistent with highest quality.

Reliable Brooders are necessary to poultry success. They save the chicks.

Write for my illustrated 100-page poultry book.

J. W. MYERS, Pres.

Reliable Incubator & Brooder Co. Dept. A-1 Quincy, Ill.

Enclosed find \$5 (cash, money order, check) for which please send me one Reliable Special Incubator, money to be returned to me if machine is not as represented. Send Free Poultry Book and prices on Standard Reliable Incubators and Brooders. (A-1)

My Name.....
P. O.....
State.....

Lice Cant Live

Conkey's Lice Powder is the old reliable standard preventive and eradicator of lice. Harmless to the fowl, but deadly to the lice and mites. Not heavy like other powders—it floats on the air, permeates the feathers and does the work. 15c, 30c and 60c. Ask your dealer. Conkey's Poultry Book—worth 50c—sent for 4c stamp.

THE G. E. CONKEY COMPANY
1000 Conkey Bldg. Cleveland, Ohio

Conkey's LICE POWDER

feed oats and corn at night and they will hardly eat it. They stopped laying. Have had as many as 200 birds but have gradually cut down the number. The pullets have free range in summer. Hens nave to be yarded. Am very much interested but am just about discouraged.

South Orange, N. J. P. O.
A. Your experience is an unusual one. Think your trouble is overfeeding and fussing with the stock too much. With a constant supply of dry mash before the birds you are feeding enough hard grain to 50 birds to take care of almost 100 birds of equal size. They are probably eating very little mash, and are undoubtedly quite fat, especially with internal fat. Would not feed scalded oats so often. Would not feed by measure; better feed according to appetite and keep the birds a little keen. Heavy feeding is necessary to get eggs, but where you hand feed as you do your birds over-eat and consume more than they would if all food was kept before them in hoppers.

Would put the birds on two meals a day. Give them a hard grain mixture in litter in the morning, not above 4 quarts for each 50 birds. In the afternoon give them a moist mash mixed up crumbly, allowing what they will clean up quickly and eagerly. Feed plenty of greens. Keep them busy and interested in their food. We very seldom find a case of over-feeding of hens and pullets in these times, but your case looks very much like it.

Colds—Damp Litter.

Q. (1) I have a Cornish cockerel that has a bad cold. He had a swollen head, foam in eyes. Gave him a cold remedy and used mentholatum in his nostrils and rubbed about head. Also washed his head in solution of permanganate of potash two or three times a week. He seems much better now and all right except for rattling in his throat. What can I do for this and what is the cause?

A. (1) The rattling in throat is due to the chronic catarrh from which the bird is still suffering. Believe he was dosed and treated too much. If you have cleaned up his head in good shape, applied the mentholatum or some camphorated vaseline, and then put him in open front quarters, dry and well sunned on sunny days, feeding chiefly on hard grain, we believe he would be all right now. It is not too late to try it. For the rattling in throat give him three times daily a tablet containing 1/1000 of a grain arsenite of antimony. Your druggist can get these tablets for you.

Q. (2) I bought two sittings of Dark Cornish eggs last spring from a breeder who claims to have good stock. Most all the youngsters raised have dark toes or black toe nails. What is the cause of this?

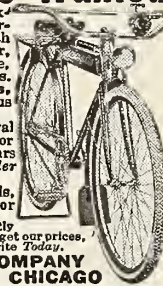
A. (2) The defect is a very common one. Q. (3) My poultry house has a cement floor in it and it is lined with tar paper. Window in south side 6 ft. long and 2 ft. high. Window has three sections of glass,

one of which I have removed and curtained with burlap to let in fresh air. When weather is not too cold I leave the burlap off entirely, but when cold or stormy I close it. The litter on floor is damp. I put in new litter every month, but it gets damp in a few days. Several pullets are sneezing and have foam in corners of eyes. What is the cause? What can I do to keep the litter dry? Would it be wise to cover the cement floor with heavy tar paper, or lay boards over it?

A. La Crosse, Kan. W. E. H.
A. (3) Cement floors are liable to be damp unless built on a cinder or crushed rock foundation.

Rider Agents Wanted

Everywhere to ride and exhibit the new Ranger "Motor-bike" completely equipped with electric light and horn, carrier, stand, tool tank, coaster-brake, mud guards and anti-skid tires. Choice of 44 other styles, colors and sizes in the famous "Ranger" line of bicycles.



DELIVERED FREE on approval and 30 DAYS TRIAL. Send for big free catalog and particulars of our Factory-direct-to-Rider marvelous offers and terms.

TIRES Lamps, Horns, Wheels, Sundries, and parts for all bicycles—at half usual prices.

SEND NO MONEY but tell us exactly what you need. Do not buy until you get our prices, terms and the big FREE catalog. Write Today.

MEAD CYCLE COMPANY
Dept. L 267 CHICAGO

Study the Poultry Business It Pays



Raising Poultry is a Highly Profitable Business, If Conducted in a Systematic, Business-like Way. It Should Be More Profitable This Year than Ever Before



But There's a Lot to Know to Raise Poultry for Really Big Profits. More People Get Medium or Poor Results than Get Good Results.

Success in this Business, as in Every Other Business, Comes to the Few Who Learn the Work Thoroughly and Follow a Definite, Methodical Plan.

DO YOU KNOW

That in "doctoring" cases of roup, treatment under the wing is necessary?

That canker (chicken diphtheria) is very prevalent and very contagious, but can be cured in one night by proper bandaging?

How to instantly pick out from a flock of chickens those in the early stages of roup, chicken pox, etc.?

That the big, fat hen with the abdomen bagging down behind the legs will be found dead under the roost one of these fine mornings and that others will follow, killed by kindness?

That big head lice are often mistaken for pin-feathers?

That hens roosting on poles painted occasionally with Lee's Lice Killer always have bright, clean legs—never scaly-leg?

That "night ventilation" has killed ten chicks and fowls for every one that ever smothered to death?

That the chickens can be worked in connection with the garden to excellent advantage, keeping it free from weeds, bugs, etc.?

What dangers beset incubator chicks which hen-mothered chicks avoid?

That chickens often have skin troubles, redness, falling out of feathers, etc., and do you know what to do for it?

That white diarrhoea is a contagious germ disease generally transmitted to

newly hatched chicks from the shell of dirty, contaminated eggs and that the use of Egg-o-Hatch entirely prevents this trouble as well as strengthens the chick and weakens the shell?

That hens can be kept laying through the molt if properly handled?

That there are hundreds of little profit-making pointers awaiting you in the Lee Books at no expense to you except for the reading?

How to pick out the laying hens from the non-layers without trapping? You can cull out the slackers and send them to market.

That the freshness of an egg can be easily determined so as to know if a day old, three days old, a week old, etc.?

I WILL TELL YOU—I have answered these questions and scores of others just as important in my series of booklets which comprise the Lee Poultry Library. I will give you a set of these books.

The Lee Library will help you to learn the poultry business. It will teach you how to get more and better chicks from every hatch, how to easily keep your flock healthy and free from vermin, how to keep the hens laying regularly every season of the year, how to preserve spring and summer eggs perfectly for the high prices nine months later, how to feed and house chickens, how to detect disease in its incipency and how to quickly and inexpensively overcome it, etc.

The Lee Books are valuable to you whether you use Lee Poultry preparations or not. They are just as helpful to the experienced poultry raiser as to the beginner. They are written tersely and in an easily understood form. They are authentic, dependable.

I want you to have this library. It is absolutely free at any Lee dealer or, for five cents stamps to cover postage, I will mail it to you without charge. Use the attached coupon or write me a postal. Do it now.

Geo. H. Lee Co., Omaha, Neb., Gentlemen: Enclosed find 5c stamps, for which send me, without cost to me, the Lee Poultry Library and full information about the Lee Way to Poultry Profits.

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Address.....
State..... R.R.Box.....

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- "Lee's Poultry Book"
- "Secrets of Success"
- "Care of Baby Chicks"
- "Pointers for Summer and Fall"
- "All About Eggs"

These Books Contain all of the ordinary poultry information, but their greatest value is in the hundreds of little short cuts, pointers, etc., that are only obtainable, in such form and of established and sure value, from the long and successful observation and experience of one person. A compilation from various sources can not possibly have the same value. The Lee Books are copyrighted and are all from the pen of Geo. H. Lee and cover his experience of thirty years in poultry work.

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dation with a layer of tar paper buried in the cement above ground level. Think you close up your house too much. Would open more of the window space in sunny weather. Do not entirely close at any time. Air out house well every day. Put about two inches of good dry sand on that cement floor before you put in the next lot of litter. The colds in flock are result of dampness in house and the poor ventilation. Wash heads of affected birds with warm, soapy water, dry thoroughly and then apply camphorated vaseline, pressing a little into nostrils and cleft in roof of mouth. Dampness in the poultry house is much more dangerous than dry, cold air. A board floor raised on cleats about an inch above the cement would help keep litter dry.

Feeding Sound Grain.

We are in receipt of letters from several readers stating that they can buy plenty of sound wheat and good quality corn and asking how to feed this grain in combination. We are of the opinion that sound wheat, fit for milling and making flour for human use, should not be fed to poultry or other stock in the present crisis. There is a great shortage of wheat and all sound grain is needed for human use. There should be plenty of shrunken wheat, slightly damaged wheat and wheat screenings available where sound wheat can be bought. Use these lesser grades for

Tycos INCUBATOR-HYGROMETERS

Warn you of the slightest change of moisture in the incubator—saves chicks from drowning or drying in shell. "Always tell the truth." Now specified by leading incubator makers and demanded by leading poultrymen everywhere. Every instrument accurate and thoroughly tested.

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"SUPERFINE" SIRE BRED BY OWNERS
H. A. D. LEGGETT & CO.
BURLINGTON, VT.

poultry feeding. Such sound wheat as is not required for human food will undoubtedly be needed for seed.

The United States Government reports that the seed corn situation is very serious and urges that sound corn be saved for seed. Farmers, stockmen and poultrymen are urged not to feed sound corn that is suitable for seed. Seed corn is scarce and will be greatly needed this spring in order to plant sufficient crops for the 1918 season. There is a great deal of soft corn, unfit for seed and difficult to keep in fit condition, even for feeding. Extraordinary effort is being made to dry

White Orpington Eggs from PRIZE WINNERS

backed up by constitutional vigor developed by the right kind of raising. These are the birds that have the size, beauty and egg laying ability.

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I have a number of good breeders that are grand bargains. Write for my mating list stating your wants.

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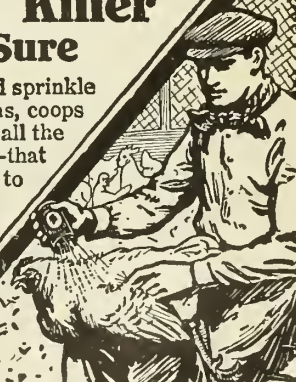
Keep down the louse pest. It means better fowls, more eggs, better growth in chicks. Chicks are coming along now. Don't let them be pestered to death.

Dr. HESS Instant Louse Killer Is Quick and Sure

Take the handy sifting-top can in hand and sprinkle in feathers, in the nests, on roosts, about pens, coops and yards. Be sure to keep it in the dust bath all the year round. Fowls work it into the feathers—that means sure and quick death to lice—no injury to fowls or chicks. Sold by 28,000 dealers and guaranteed by Dr. Gilbert Hess, M.D., D.V.S.

1 lb. 25c 2 1/2 lbs. 50c (except in Canada)

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DISEASES OF POULTRY

By D. V. Salmon. 252 pages; 72 illustrations. Every poultryman needs this book. The cause, symptoms, care and remedies for each disease fowls are subject to are given. Price 50c. American Poultry Journal Pub. Co., 542 S. Dearborn St., Chicago, Illinois



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of all kinds and descriptions. It gives complete plans. How to make feed troughs, nest boxes, water troughs, roosts, dropping boards, brood coops, brooder houses, fattening coops, colony houses, winter and summer houses, etc. Price 50c. AMERICAN POULTRY JOURNAL PUB. CO., 542 South Dearborn Street Chicago, Illinois



First prize Rose Comb Ancona cock at Madison Square Garden, New York City. Owned by H. Cecil Sheppard, Berea, Ohio.

and save this soft corn and it is available for poultry feeding. Care must be taken to avoid the use of badly heated or moldy soft corn in feeding fowls or chickens, as it is very risky business to feed it. Kiln-dried corn in good condition makes about as satisfactory poultry feeding corn as most of us will be able to use this season. Some sound old corn will be necessary for grinding into chick foods. Oats which were looked upon as a big crop last year, have been in such demand that there is now a shortage in many parts of the country.

A good scratch feed for fowls may be made as follows:

- Kiln-dried whole or cracked corn.....500 lbs.
- Wheat, of feed quality only, or screenings100 lbs.
- Well filled oats.....200 lbs.
- Heavy barley200 lbs.

For standard mash mix equal parts by weight of wheat bran, wheat middlings, corn meal (or feed meal and hominy chop), gluten feed, crushed or ground oats, meat scrap (or fish meal or blood meal).

Small flock poultry keepers and back-lotters will probably be best served by securing good commercial ready-mixed scratch grain and mash. Every poultry keeper who can should grow a grain crop this season.

Chemical Composition of the Egg.

O. Please give the qualitative and quantitative analysis of the hen's egg. Wichita, Kan. D. H.

A. COMPOSITION AND VALUE OF HEN EGG.

Water	65.5
Shell	11.2
Ash	0.9
Protein	11.9
Fat	9.3
Nutrient ratio	1:1.8
Calories in 1 ounce.....	40

GENERAL COMPOSITION OF EGG YOLK.

	Percent.
Water	47.19—51.49
Solids	48.51—42.81
Fats (olein, palmitin and stearin)	21.30—22.84
Vitelline and other albumen... ..	15.63—15.76

The Incubator Built to Excel All Known Hatching Devices



NO other incubator today possesses as many improvements of real merit as the 1918 X-Ray Incubator. We have combined in it 20 exclusive Patented X-Ray Improvements that more than ever assure Good Hatches—Better Chicks—Less Labor—Less Expense. The 1918 X-Ray includes the X-Ray Gas Arrestor—the famous device that prevents lamp fumes entering egg chamber; X-Ray Nursery Tray, which assures sanitation and protects little chicks; X-Ray Egg Tester, most perfect, handy tester ever conceived; Handy Height and Quick-Cooling Egg Tray. All exclusive X-Ray betterments—found only in

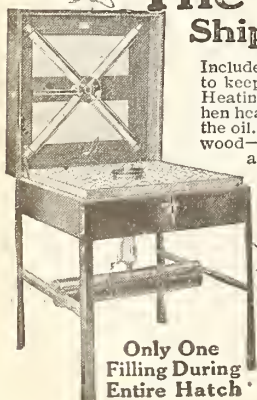
The New 1918 X-RAY INCUBATOR Shipped Express Prepaid to Practically All Points

Includes also, the X-Ray Vapor Generator; X-Ray Thermostat that automatically shuts off and turns on flame as needed to keep temperature of eggs precisely correct at all hours of the day or night without attention; X-Ray Duplex Heating System that absolutely prevents cold corners or cold sides and provides moist heat (the natural hen heat); X-Ray Central Heating System that gives direct heat and assures correct heat from all the oil. Also, the finest constructed incubator on the market—built of selected California red-wood—with entire body covered and insulated with heavy enameled, ebonized steel—legs and supports heavy angle iron.

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A beautiful book—packed with facts that will help every poultry raiser to add to his income—to add to his knowledge of incubator values—to know positively what to expect of an incubator. Write for 1918 Book—tonight.

X-RAY INCUBATOR CO., Dept. 10C, Des Moines, Iowa
1918 X-Ray Brooders, Too



Only One Filling During Entire Hatch



Lecithin	8.43—10.72
Cholesterin	0.44—1.75
Cerebrin	0.30—
Mineral salts	3.33—0.36
Coloring matters—glucose	0.553

ANALYSIS OF MINERAL SALTS, YOLK.

Sodium (Na ₂ O)	5.12—6.57
Potassium (K ₂ O)	8.05—8.93
Calcium (CaO)	12.21—13.28
Magnesium (MgO)	2.07—2.11
Iron (Fe ₂ O ₃)	1.19—1.45
Phosphoric acid, free (P ₂ O ₅)	5.72
Phosphoric acid, combined	63.81—66.70
Silicic acid	0.55—1.40
Chlorine	Traces

GENERAL COMPOSITION OF EGG ALBUMEN (WHITE).

Water	80.00—86.68
Solids	13.22—20.00
Albumens	11.50—12.27
Extractives	0.38—0.77
Glucose	0.10—0.50
Fats and soaps	Traces
Mineral salts	0.30—0.66
Lecithins and Cholesterin	Traces

ANALYSIS OF MINERAL SALTS OF EGG WHITE.

Sodium (Na ₂ O)	23.56—32.93
Potassium (K ₂ O)	27.66—28.45
Calcium (CaO)	1.74—2.90
Magnesium (MgO)	1.60—3.17
Iron (Fe ₂ O ₃)	0.44—0.55
Chlorine (Cl)	23.84—28.56
Phosphoric acid (P ₂ O ₅)	3.16—4.83
Carbonic acid (CO ₂)	9.67—11.60
Sulphuric acid (SO ₃)	1.32—2.63
Silicic acid (SiO ₂)	0.28—0.49
Fluorine (F)	Traces

The shell consists of an organic matrix of the nature of keratin impregnated with lime salts. Calcium and magnesium carbonates, about 97 percent; calcium and magnesium phosphates, about 1 percent; keratin and water, about 2 percent; trace of iron. The shell-membrane and the vitelline membrane are stated to consist of keratin or a closely allied substance. (See "The Development of the Chick," Lillie, 1908.)

Capons.

Q. (1) What is a capon? Is it a male or female fowl?

A. (1) A capon bears the same relationship to the male fowl that the ox bears to the bull. A capon is a castrated cockerel.

Q. (2) I have some Barred Plymouth Rocks eight months old. I am unable to ascertain their sex. Some look as if they were part male and part female. Others have a head like a female but the tail shows plumage like a male. Don't you think they ought to crow if they are males?

A. (2) Not knowing whether you bought these birds recently "as is" or if you reared them, we cannot say what you have. Better get some near-by experienced poultryman to look them over for you.

Q. (3) Which breed lays the largest and most eggs?

A. (3) We do not know. There are American, English, Asiatic and Mediterranean varieties which lay large eggs and plenty of them.

Q. (4) How much do fully matured Buff Cochins weigh?

A. (4) Cock, 11 lbs.; hen, 8½ lbs.; cockerel, 9 lbs.; pullet, 7 lbs.

Q. (5) When does a chick become a pullet, or if a male, when does it become a cockerel?

Chicago, Ill. G. L.
A. (5) From as soon as you can determine sex until the bird is a year old. With pullets the name is often used until end of first year of laying.

Red Sussex.

Q. Am interested in Red Sussex. Please describe them.

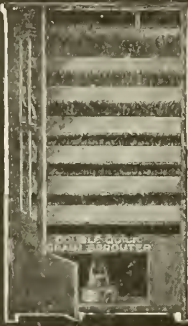
Jones, Ala. C. C. K.
A. The Red Sussex is a variety of an English breed originated in Sussex. It is an excellent fowl, good for both meat and eggs, and attractive for show purposes. The body is long, broad and deep, presenting an almost oblong appearance viewed in profile. Plumage is mahogany red. Under-color, slate. Feet and legs, white. Skin, white. Standard weights, cock, 9 lbs.; hen, 7 lbs.; cockerel, 7½ lbs.; pullet, 6 lbs.

Diseased Ovary.

Q. When we kill our hens we find a number of small yolks that are hard and almost black. They are a little larger than a pea. These hens do not lay very well.

New Windsor, N. Y. Subscriber.
A. Ovary is diseased. Probably trouble is due to bacillary white diarrhoea or similar

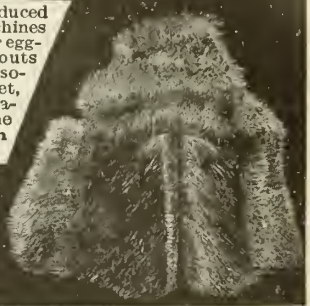
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The Vapor-Bath Sprouts produced by the Close-To-Nature machines possess an efficiency for prolific egg-production not found in sprouts grown the old way or in many so-called grain sprouters. A sweet, succulent, tender, edible, palatable sprout is grown in the Close-To-Nature Vapor-Bath machines.



Sprouted Oats From One Bushel Of Grain



CLOSE-TO-NATURE GRAIN SPROUTERS

The DOUBLE-QUICK, the ALL-METAL SECTIONAL, the LAMPLESS, three kinds and all sizes from a few hens to 1,000,—made by the pioneers and largest manufacturers of Grain Sprouters. The Grain Sprouter or Perpetual Poultry Silo runs up the egg yield and cuts down the feed bill. Turns high-priced grain into low-priced feed. The Close-To-Nature Vapor-Bath machines sprout in 20 to 30 hours and force growths of 1 to 2 inches daily, thus producing the best of easily-digested, highly-efficient, egg-producing feed. Circular free.

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Best day's laying in WINTER by 400 pullets, 324 eggs; another lot of 200 hens paid \$1,124 profit. They will lay as well for you. TESTED 10 YEARS. If you want the WINTER EGG AND BIG PROFIT, buy of the breeder that can give the unquestionable PROOF. 20,000 chix, selected GUARANTEED FERTILE batching eggs and stock at a LET-LIVE price. Get my big free catalog. Write today OSEE C. FRANTZ FARMS, ROCKY FORD, COLORADO

SCOTT'S S. C. R. I. REDS *World's Champions*

Eggs for Hatching from blue ribbon winners at the late National Meet

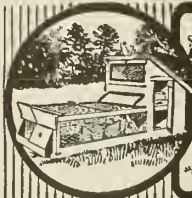
of the Rhode Island Red Club at Minneapolis, Greater Chicago Show, 1917, Chicago Coliseum, 1916, and World's Fair, 1915.

SCOTT'S REDS are being recognized from Coast to Coast as the Best

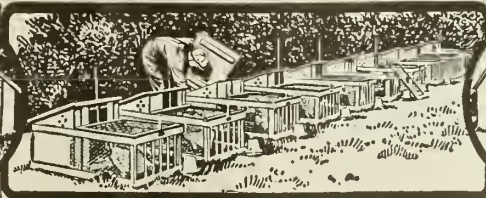
They excel in color, are big and vigorous and produce few culls. They have good range, shade, proper care, correct mating—all of which produces Reds that win and lay. *They please my patrons.* We guarantee a good hatch regardless of shipping distance.

My mating list, which describes my pens, will be sent on application

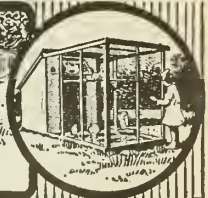
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infectious disease. Would dispose of the flock and make a fresh start this spring after thoro disinfection of houses and yards.

Soy Beans and Cow Peas.

Q. Please discuss the relative qualities of black-eyed peas, soy beans, and cow peas as poultry feeds. Would like analysis. Also

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and
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Every claim regarding their superiority fully realized. Both will aid in your increased production efforts. Don't waste time, money and patience with antiquated methods. Tools and Plan Book covered by money-back guarantee. Descriptive literature, testimonials and best Capon Book (illustrated) yet printed, 6 cents in stamps.

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wish to know comparative yield per acre and how to feed. Also the digestibility and palatability of each. Which would you consider most practical as a poultry food?

Jeffersontown, Ky. J. F. M.
A. Write for information to your State Agricultural College and to "Poultry Investigations," U. S. Dept. of Agriculture, Washington, D. C. These foods have not been used extensively for poultry feeding. In limited quantities they are eaten readily. Soy beans yield from 15 to 35 bushels per acre. Cowpeas yield from 15 to 30 bushels per acre. The "Black-Eye" is a variety of cowpea.

Soy Beans		Cowpeas	
Water	10.8	14.8	
Fiber	4.8	4.1	
Ash	4.7	3.2	
Protein	34.0	20.8	
Starches	28.8	55.7	
Fat	16.9	1.4	
Nutrient ratio	1:2.1	1:2.8	
Calories in 1 ounce.....	117	92	

Can be utilized in small quantities in scratch grain. Should prove useful when ground for mixing with mash. Unless home-grown there will be difficulty in securing supplies. Cost is likely to prove over-high for poultry food in most cases. Samuel Tyson, Rising Sun, Maryland, has been one of the most successful growers of soy beans we know of, getting large yields per acre. Possibly you can obtain

advice from him as to seed, preparation of soil and planting.

Acute Indigestion.

Q. I have been breeding Silver Campines with splendid success, but last fall I lost one of my finest pullets. She was in fine laying condition. One day noticed her standing with eyes closed and gaping. Died in three days. Have had two more go the same this winter. Can you tell me what is wrong? Have a good warm house and they do not seem to have colds. All seem perfectly healthy until one becomes droopy.

Princeton, W. Va. J. C. McC.
A. Looks like acute indigestion. May be due to eating spoiled or heated grain, or moldy grain, or to some other undesirable food eaten to excess by the individual. Try to find the cause and remove it. Examine the crops of affected birds, the crop and gizzard contents may point out the cause of the trouble. Next time one is affected, use a fountain syringe to introduce sufficient warm water into crop to fill but not stretch it. Work the crop gently and then make bird vomit up contents of crop. Give warm milk and egg albumen containing a few drops of brandy. Feed this in teaspoonful doses occasionally. If bird shows improvement, give small amount of moist mash. Return to regular ration gradually.

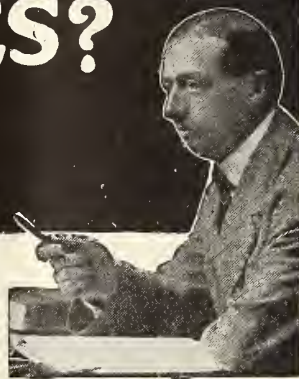
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It pays to investigate the kind of materials used in an incubator, before you buy. Then you will know how they are made and what they are made of; which machine is best and which will



[6]

last the longest and give the most value for your money. You will know what you are going to get before you pay for it. It will also save you disappointment, time and trouble. That's why we want to send you a sample of the material we use in our machines. Year after year, these unbeatable Wisconsin have proven their superiority over all others regardless of price. The reason is plain. It is because they are made of the best materials and by skilled workmen. We know before they leave our factory they will give the best of satisfaction. Here is the proof—read the letters below. We get hundreds like them. Remember, you take no chances in buying a Wisconsin outfit. We give you

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130 Egg Incubator Chick Brooder

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Freight Paid East of Rockies

Mayaville, Ky.
Wis. Inc. Co.
Dear Sirs: I received my incubator and was very much pleased with it on account of excellent luck I set 180 eggs and hatched 175 chicks. My neighbors think it is a great machine and probably will buy one like it.
Mrs. H. Reeves.

Pine Level, N. C.
Wis. Inc. Co.
Dear Sirs: I like your incubator fine getting about 88 per cent hatchings. We would not be without it for twice what it cost.
Yours truly,
J. D. Thompson

Walkerton, Ont., Can.
Wis. Inc. Co.
Dear Sirs: Your machines did splendid work. I hatched an average of 90 per cent. We highly recommend it for duck eggs as we got 80 strong ducklings out of 90 eggs.
Yours truly,
Siegfried Bros.
Box 102

Baraboo, Wis.
Wis. Inc. Co.
Dear Sirs: We are well pleased with the Wisconsin incubator as we got 135 good healthy chicks from 139 eggs.
Your customer,
Gust Weiland.

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Order Direct From This Advertisement

You can send in your order direct if you wish to save time. Remember, you can have 30 days trial with the understanding that if you are not perfectly satisfied, simply write me—send the goods back and I'll not only return your money, but pay the freight charges besides.

Thos. J. Collier, Mgr.

Made in Two Sizes
180 Egg Incubator
180 Chick Brooder
Both for
\$14.75



Not few nor light are the burdens of life; then load it not
With heaviness of spirit. A wise traveler goeth on cheerily,
Thru fair weather or foul; he knoweth that his journey
Must be sped, so he carrieth his sunshine with him.
—Tupper.

IN THESE days of food scarcity, food conservation, and food substitutes, the mothers of growing children cannot be too careful in seeing to it that their children are being properly fed. A growing child requires a goodly amount of wholesome nourishing food to build up and maintain health. Most adults can eliminate considerable surplus food from their dietary with benefit to their physical well-being, but growing children need all the nourishing food they can get. The pity is that a great percentage of them cannot get it, and their later years show the evil result of poor nutrition and under-feeding during childhood. Not many years ago a lecturer of note stated that he believed we would have no further use for hospitals, jails, insane asylums and like institutions, in one generation, if the children were allowed plenty of pure air and sunshine and all the wholesome food they wanted.

Recently a committee of well-meaning women near one of our large cities examined the lunch pails of numerous school children, to see if the mothers of these children were observing the meatless, wheatless, sugarless rulings of the Food Administration, and they expressed themselves as being surprised and shocked to find that in many lunches there was "too much food" and of a kind not now allowable. One child was found to have five small slices of bread and butter, another had a meat sandwich, and still another a slice of cake. So the women set about to make public their findings in an effort to discourage further extravagance as regards school lunches.

It would appear from the reports of similar committees bent upon conservation, that, at this time of labor shortage, these excellent women could find employment which would

be of greater service to the Nation. The fault to be found with the school lunch of the average child is not that it is too abundant but that it is far too scanty. No doubt milk and eggs, rich broths and hot cocoa would be far better for the child than meat sandwiches or just plain wheat bread and butter, but the mother sending off two or three children several miles to school, during all degrees of severe winter weather, cannot supply her children with such foods as she would like. Every rural school should have a well conducted kitchenette with cooking equipment where hot lunches could be prepared and served by the children, but very few of them have anything of that kind. The child has to leave home early in the morning and does not reach home again until it is beginning to grow dark. For an all-day sojourn, where he is expected to put in a full day of trying work, he needs to be well nourished. Five slices of bread is not any too much for a child under such circumstances, tho, of course, other foods might be better for him. Children who eat corn muffins with relish for breakfast will, day after day, bring them back untasted when sent for lunch to be eaten cold. Anyone who has ever had the task of putting up school lunches realizes how few articles of food the average child relishes when sent in the lunch box. A small thermos bottle is one of the best investments I have made along this line. Every morning it is filled with steaming hot broth or cocoa or "Cambric tea" (which is not tea at all, but whole milk, boiling water, nutmeg and a bit of sugar) and forms a very essential part of the noon meal at the school house. Bran and wheat muffins and oatmeal bread are used for sandwiches with fillings of butter, jam, or minced

WORLD'S BEST BY ACTUAL TEST

In the Official Skimming Tests made by Jury of Dairy Experts at the World's Fair Exposition, the **"IOWA"** CREAM SEPARATOR, outskimmed all competing separators. These Official tests and other skimming tests made by leading Agricultural Colleges, prove that the "IOWA" Cream Separator skims closest. The "IOWA" is the only separator with the famous, patented **CURVED DISC BOWL** the World's closest skimming device. Send for free book "FACTS"—tells results of skimming tests and shows how the "IOWA" increases cream checks by stopping your butterfat losses. Before you buy, see and try the "IOWA." Write today.

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How to Raise Chicks

128 pages, profusely illustrated. An a to z manual for everyone who keeps fowls. Written by Prince T. Woods, a man who knows how and how to teach others. Cloth bound, price 75c. American Poultry Journal Pub. Co., 542 S. Dearborn St., Chicago, Illinois

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When such breeders as Mrs. Helen Dow Whitaker, E. B. Thompson, Dr. N. L. Smith, A. C. Hawkins, O. F. Mittendorf, Prof. T. E. Quisenberry, Len Rawnsley, U. R. Filsbel, A. A. Carver and thousands of other big breeders that have had years of experience in raising poultry, endorse and use a preparation as the best, it must have exceptional merit, and will do all that is claimed for it.

LICENE Makes Hens More Profitable

No hen can lay her best when tormented by lice. Kill the lice and watch the increase in your egg production. John G. Poorman, Tinley Park, Ill., the owner of "Lady Show-you," the \$800.00 hen, and breeder of the celebrated 200-egg strain, writes:

"Lice is the one great factor in determining success or failure in the poultry business. If exterminating lice means success, and it surely does, LICENE should be given all the credit. I would as soon be without feed as without LICENE, for without either profitable egg farming is not a success."

LICENE Cheapest Lice Killer Known

Price, 60c a Tube, Postpaid Sufficient for 150 to 200 Fowls

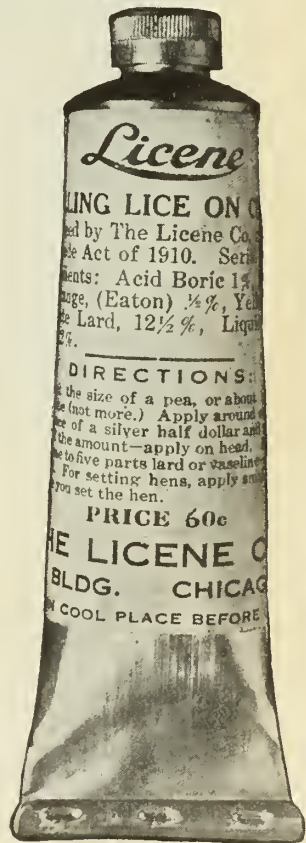
LICENE is applied twice a year, but many report that they have found one application a year sufficient. When you stop and consider that one tube is sufficient for 150 to 200 birds, you must realize that LICENE is cheaper than lice powder and liquid lice killers. It is also more conveniently handled and more easily applied, saving time, labor and money, making LICENE not only the best but cheapest lice exterminator the world has ever known. Put up in collapsible tubes, which prevents waste. Remember LICENE will not injure the birds in any way or destroy fertility of eggs, so with our positive guarantee you take absolutely no risk in giving LICENE a trial.

Positive Satisfaction Guaranteed or Money Back

If Licene does not destroy every louse and "nit" (egg of a louse) or does not clean scaly legs on your chickens, or if applied on sitting hens, and does not prevent head lice on chicks—you are the judge—we will refund your money if you notify us (or our agent) within one month after receiving Licene and no questions will be asked.

The Poultry Doctor FREE This little book is worth its weight in gold to any one raising poultry. Thousands of poultry breeders are following its suggestions with success and profit. It contains 16 different tested and proven formulas of remedies for diseases common among fowls. It is invaluable to the beginner and experienced breeder alike. Remember it is absolutely **FREE**, so just send your name and address for it.

THE LICENE CO., 1500 Pontiac Bldg., CHICAGO, ILL.





The above illustration of the first prize cock and champion male at the National Meet of the Single Comb White Leghorn Club, at the Greater Chicago Show, January, 1917, was made from an unretouched photograph taken by Artist Stahmer, April 22, 1917. The bird was taken direct from the breeding pen and photographed, without any preparation or conditioning whatever, and is one of the most remarkable birds ever produced. He has never been defeated and has won four first prizes and one championship at National shows: Greater Chicago Show, 1914, 1915 and 1917, and St. Louis, 1918. He has produced a line of sensational winners at the largest shows in the country, and will again head my Mating No. 1 this season. This bird was bred and is owned by me at the present time. My new 1918 catalog will be sent upon request. Eugene Smith, 317 Galena Boulevard, Aurora, Ill.

chicken, or to be eaten with a stuffed egg. Nut meats, apples and oranges are sent alternately for variety, with an occasional baked or steamed custard.

It is not the mothers of children who go long distances to school and who thus have to carry a lunch, who need to have food conservation drilled into them. Most of the children of these mothers have never had as much food as their bodies require for proper development, and while present day conditions exist are not likely to have. If the ration which is now being advocated for wealthy families could be made possible for the families of the poor, or even the middle classes, there would be fewer men and women physically unfit for the work which confronts the coming generations.

Three adults and a child of nine years were taking an all-day journey last fall thru a very beautiful section of the country. The hills were radiantly clad in the gorgeous reds, browns, yellows and greens of the New England foliage at that season of the year. The sun was shining its very best and the breath of the sea air as they sped down the coast line was most refreshing. The conversation, as most conversations nowadays, related to the war. Tales of cruelties, suffering, sacrifice, disaster and speculations as to what would follow the war were one after another discussed and no matter how enthusiastically any other subject was brought into the conversation, it soon merged itself into a war topic and ended as such.

Along in the mid-afternoon during a moment's lull in the conversation, the child of the party heaved a heavy sigh and in a plaintive voice remarked, "I wish the war would get over so we wouldn't have to talk about it so much!"

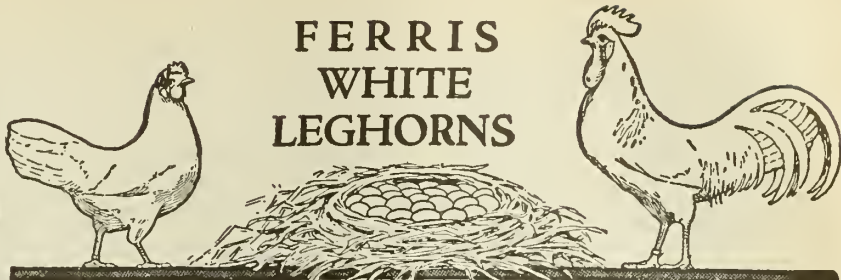
There are probably a great many sensitive children in all parts of the world who have felt the same way, for probably no other war has ever engaged the thoughts of so many people since the beginning of time. It is perfectly natural and right for people to think a great deal and talk about the war. In fact it could not be otherwise with all our interests at stake and all our hopes centered about its outcome. But perhaps we are overdoing it with sensitive-minded small children. A child's life should be as full of sunshine and joy as we can make it. Whatever of fear, or blight, or undue suffering, is forced upon childhood shows its evil effect upon the coming man.

The present is a time when every child needs all the sunshine, good fellowship, wise counsel and loving which his parents can bestow upon him. These things will do more to help the child toward right living than anything he can get from school, college or state. Juvenile crime has increased tremendously in all the belligerent countries during the past three war wearied years. In many places with schools closed and mothers working in factories, the children have been left to shift for themselves in what appears to them a lawless state of society. They hear nothing but war talked of at home, there is nothing else in the papers and it is but natural, with lessened parental care and school dictatorship, that their young minds should run along similar channels. Without wise counsel of more mature minds the result is apt to be very disastrous.

A happy childhood does not fit well into the environment with which children are surrounded in many parts of the world today. It thrives best amid green grass, sunny meadows, bird songs and woodland, but above all where the open expression of the parent's love and interest is made evident. A keener interest in the boy and his pursuits will awaken his self respect and stimulate his ambition. The sensitive girl, who feels the burden of the war as keenly as her elders, hungers for the affection of those near and dear to her and profits by a wise guidance in her reading and consequent thought and action!

Whatever of time and attention, of love and interest, we bestow upon our children's welfare in these days of world travail will net us good returns, and its undoubted survival value will add to the betterment of the child and the world in which he lives. A great many people have turned their children over to the schools and the church for the development of character, as well as mind training, only to find that no outside influence can take the place of good wholesome home environment. If a parent can do nothing else for his child he ought to be able to make the child happy, for happiness is a natural state for childhood and should everywhere, and under all circumstances, be encouraged.

I knew a little boy a few years ago who was having a hard time learning to do what he



FERRIS WHITE LEGHORNS

FERRIS WHITE LEGHORNS FOR EGGS

Compare them with ordinary hens and you will understand why so many thousands of poultry keepers breed Ferris White Leghorns. Trapped for 18 years they have records as high as 264 eggs per year and their laying qualities are so well established that they will produce good results for you wherever you are located. All stock is bred for size, health and profit, and raised on free range with every care to produce perfect development. Thirty-five acres are devoted exclusively to White Leghorns and we raise thousands.

PRICES OF BREEDING STOCK

	From 230 to 264 Egg Stock	From 200 to 230 Egg Stock	From Good Utility Stock
1 cockerel	\$ 10.00	\$ 6.00	\$ 4.00
1 male, 4 females.....	30.00	18.00	12.00
1 male, 12 females.....	60.00	40.00	27.50
100 females	365.00	250.00	175.00

Now is the best time to buy. Shipment can be made in cold weather with perfect safety. Hundreds of choice cockerels, pullets and hens. See catalog for complete descriptions.

ALL STOCK IS SHIPPED ON APPROVAL. You can return within three days any birds not satisfactory and money will be refunded. (We will ship C. O. D. if you want to see the birds before paying for them. Send only \$1.50 for a pen of five, and 20 cents each for larger numbers to guarantee express charges.) We insure all stock for 30 days. Any birds that die or get out of condition will be replaced free of charge. Their breeding value is also guaranteed. Any male that does not produce fertile eggs, any hen that does not lay hatchable, good-shaped eggs will be replaced free.

PRICES OF 8-WEEK-OLD PULLETS AND COCKERELS

	From 230 to 264 Egg Strain	From 200 to 230 Egg Strain	From Good Utility Stock
1 cockerel, 4 pullets...	\$ 15.00	\$ 10.00	\$ 8.75
1 cockerel, 10 pullets...	30.00	20.00	16.25
50 pullets	110.00	80.00	65.00
100 pullets	200.00	150.00	125.00

We are now booking orders for 8-week-old chicks. At this age the pullets weigh 3/4 lb., and the cockerels about 1 lb., and we guarantee safe arrival anywhere in the United States or Canada. Catalog gives full particulars.

EGGS FOR HATCHING — PRICES FOR FEBRUARY, MARCH AND APRIL

	From 230 to 264 Egg Strain	From 200 to 230 Egg Strain	From Good Utility Stock
15 eggs	\$ 5.00	\$ 2.75	\$ 2.25
30 eggs	9.00	5.00	4.00
50 eggs	13.00	8.00	6.00
100 eggs	25.00	15.00	11.00
500 eggs	110.00	65.00	52.50
1000 eggs	200.00	125.00	100.00

We replace all infertile eggs free of charge, or if you get less than a 60 percent hatch we will replace one-half the eggs that do not hatch. We guarantee safe arrival anywhere in the United States or Canada.

DAY-OLD CHICKS—MARCH AND APRIL PRICES

	From 230 to 264 Egg Strain	From 200 to 230 Egg Strain	From Good Utility Stock
10 chicks.....	\$ 3.00	\$ 4.50	\$ 3.00
25 chicks.....	13.50	9.50	6.50
50 chicks.....	26.00	18.00	12.50
100 chicks.....	50.00	35.00	24.00
500 chicks.....	220.00	145.00	115.00
1000 chicks.....	400.00	275.00	220.00

We guarantee safe arrival anywhere east of the Rocky Mountains. See catalog for full descriptions. Our first hatch comes off March 5th. Our incubator capacity is 47,000 eggs, or over 10,000 chicks a week; but we advise placing orders as far in advance as possible, as we expect an unusually large demand.

1918 CATALOG IS FREE

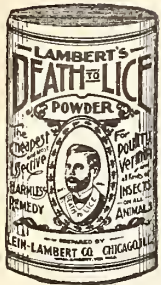
Send for your copy today. It describes fully the stock, eggs and chicks quoted above. Contains photos showing 35 acres of White Leghorns; describes our methods of feed and care; how we improve laying qualities; list of winnings at 20 big shows; many letters from customers; prices of exhibition, breeding and laying stock, eggs for hatching and day-old chicks.

GEORGE B. FERRIS

Ferris Leghorn Farm 905 Union Ave., Grand Rapids, Mich.



Poultry Cuts
for illustrating your advertising and printing. All sizes. Send for catalog and prices. AMERICAN POULTRY JOURNAL, 642 S. Dearborn St., Chicago



Coupon for Big Trial Size

Klein-Lambert Co.,
601 Traders Bldg.,
Chicago, Ill.

Dear Sirs:
Please find enclosed ten cents (10c) for which send me Big Trial Size of "Death-to-Lice," as advertised in AMERICAN POULTRY JOURNAL.

Name _____
Address _____
City _____ State _____

Makes 'Em Turn up Their Toes Mighty Quick

There isn't a ghost of a show for lice and mites on hens, chicks or nests after a dust with the old reliable Lambert's Death to Lice. It knocks 'em stiff in a jiff. As one of the big successful poultrymen wrote us, "It is impossible to get along without your louse killer," so it is with every user. There's nothing so efficient.

Don't Experiment

Follow the example of the leaders—ask any successful poultryman which lice killer has been the standard for 30 years—which is acknowledged BEST. He will tell you to



Get **Lambert's**
OLD RELIABLE DEATH TO LICE

because he has found it **always the BEST.**

Don't expect to make your hens pay and permit lice to worry and annoy them. The lice will get the profit and often the hens and chicks, too. A few cents invested in Death to Lice will bring dollars in profit. Just the thing for layers, sitters, and exhibition stock. Will not injure eggs, chicks or hens or soil plumage. Get a 5 oz., 10c box at dealers to try (or send to us direct if he can't supply you). Other sizes 25c, 50c and \$1.00. Lambert's Latest copy of "POCKET BOOK OF POINTERS," a valuable book for poultry raisers. Mailed for 20 stamp.

KLEIN-LAMBERT CO.
601 TRADERS BLDG. CHICAGO

was told. It seemed too hard a task to leave instantly, when called, a sand pile in the corner of the yard, where he was constructing a trans-continental railway, for the apparently unnecessary task of washing up for dinner. His mother argued with him, telling him how he kept others waiting and that it was necessary for him to learn obedience—to do the thing he did not like to do. For several days she noticed whenever he was asked to do anything he did not care to do, he would run and pluck a fragrant flower and hold it his nose for a minute, breathing deeply. When asked to explain, he said, he could do difficult things, if he could "mell a wov" (smell a flower) first. And so it is with many of us. Let us put a little more of the fragrance of human love and kindness into our children's lives that they may be the better able to meet the difficulties which confront them.

HOMINY PUFFS.

To one cup of boiled hominy add three-fourths cup sweet milk and one beaten egg. Add also one tablespoonful melted chicken fat, half a teaspoon of salt, one tablespoon cooking syrup, one cup of whole wheat flour and two tablespoons baking powder. Have muffin irons hot, grease well and fill each partly full with the batter. Bake in quick oven and serve hot.

BOILED RICE WITH CANNED FRUIT.

Wash the rice thoroughly and cook in double boiler in boiling water. Do not stir. Have each grain separate when cooked. Rice mash is not appetizing. Serve as a desert with canned peaches heated in their own syrup. Canned pears are also very delicious to serve with hot boiled rice.

CANNED FRUIT SHORTCAKE.

Make a shortcake dough by sifting together one cup flour, one-fourth cup corn starch, one-half teaspoon salt, two tablespoons sugar, one and one-half teaspoon baking powder and moisten with thin cream. Roll into a sheet to fit a baking pan and cover with halved plums, peaches, apples or any other canned fruit on hand. Sprinkle with sugar and bake in a quick oven. Serve with the juice from the canned fruit. Cherries are very nice when served in this way if a thin layer of dough is placed over the fruit before baking. Dried fruits may be used in the same way by cooking them first.

RICE CAKES.

Cream one-half cup chicken fat with one-half cup sugar and two eggs. Sift in gradually one-quarter cup of rice flour and three-fourths of a cup of wheat flour and two teaspoons of baking powder. Drop on to a baking sheet and bake in a quick oven.

BOSTON BROWN BREAD.

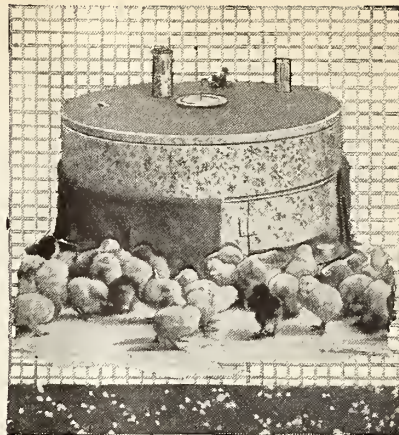
Mix together one and one-half cups of rye meal, one cup corn meal, one quarter cup whole wheat flour, one egg, one-half cup molasses, one cup milk, preferably sour. Add one teaspoon soda to the molasses and stir well before adding to mixture. One-half cup seeded raisins should be stirred in just before placing in mould. Steam four or five hours. Serve hot.

Coliseum Announces Dates and Judges for 1918.

The tenth annual exhibition of the great Mid-West Poultry and Pet Stock Association will be held at the Coliseum Building, Chicago, December 3-8. The following judges have been selected—others will probably be added later:

- D. W. Young, Monroe, N. Y.—White Leghorns. James A. Tucker, Royal Oak, Mich.—R. I. Reds and Barred Plymouth Rock males.
- Harry Adkins, Davenport, Iowa—Partridge Wyandottes and Partridge Rocks. Chas. V. Keeler, Winamac, Ind.—Buff Wyandottes and Buff Rocks. T. J. Roundtree, Nora, Ill.—Campines. Herman Rikhoff, Indianapolis, Ind.—Buff Leghorns and Buff Minorcas.
- Hackett, North Freedom, Wis.—Black Minorcas. Fred Kummer—White Rocks and White Orpingtons. Leonard Rawnley—Sussex and Buff Orpingtons. Geo. Greenwood, Lake Mills, Wis.—Black Orpingtons and Blue Orpingtons. Geo. Wells, Oshkosh, Wis.—White Wyandottes. W. G. Warnock, Geneseo, Ill.—Brown Leghorns. Leo A. Lee, Chicago, Ill.—Columbian Wyandottes and Columbian Rocks. Fred Shellabarger, West Liberty, Ia.—Black Langshans and All Asiatics. R. P. Krum, Stafford, Kas.—Bantams. H. A. Pickett—Turkeys and Water Fowls. Chas. Brent, Oconomowoc, Wis.—Cornish.

Pet stock judges will be announced later, subject to the approval of the Chicago and National Pet Stock Club.—Theo. Hewes, Secretary, Indianapolis, Ind.



No More "Cold Corners"

You can see for yourself that a hover built in circular form cannot have "cold corners". Prairie State Hovers make the comfiest, coziest homes for baby chicks ever invented. They are equipped with every modern convenience and appliance that will help protect the frail lives of your baby chicks, and develop them into strong, healthy payers. A thermometer and thermostat automatically maintain an even, unvarying temperature in all kinds of weather. Three sizes and styles to meet every requirement, and every pocket book. Get our attractive prices before you buy.

PRAIRIE STATE HOVERS

THE PRAIRIE STATE JUNIOR PORTABLE HOVER is our newest and most popular model. Due to economies in designing we are able to offer it to you at an exceptionally low price. It gives you all the chick protection and does the work just as well as higher priced machines. Note illustration above. See how compact, how simple. It is substantially built of rust proof and wear proof galvanized iron and the best of materials, yet it is light enough to be easily portable. Diffusion ventilation brings in warmed fresh air, but no drafts. Beginners, fanciers and farmers rearing small flocks will find it ideal, and a big bargain.

Prairie State Incubators

Our new FREE book describes the complete Prairie State line—including incubators, hovers, stove brooders and poultry supplies. A postal card brings it postpaid.



Prairie State Incubator Co.
Dept. 114 Homer City, Pa.



J. F. SIEMS Investor

Incubator for \$300

OVER 850,000 IN USE!

IN simplicity, ease of management and certainty of results no incubator in the world equals it. Everything controlled by living hens. It's the one incubator that can't make mistakes. This year we are making a drive for the

Million Mark

Mrs. Grant, Md., writes: "Beats other incubators all to pieces." Thousands of other testimonials. Artificial incubators cost four times as much and are not as satisfactory. No freight to pay. To reach the million mark in 1918 we will send you a Special Introductory Offer with our Free Catalog. Agents wanted.

Natural Hen Incubator Co.
1849 Constance St., Dept. 4 Los Angeles, Cal.

Mention the American Poultry Journal when writing to advertisers.

Why I Breed R. C. Reds.

(Continued from Page 299)

Some farmers say this special mating and trap-nesting makes too much extra labor. Well, the ones who put forth this extra effort are the ones who are going to be ahead in any line of work. I might state that I farm and have under control seven hundred and sixty acres of land, raising each year wheat, corn, oats and alfalfa, also horses, cattle and hogs. Have no hired help six months of the year, and yet, with the aid of my wife and daughter at the busiest seasons, I find it a pleasure rather than drudgery to give my chickens this special attention.

Incubators and hens, both, are used for hatching; but let the hens raise all the chicks. I can tell no difference in the chicks hatched in the incubators or under hens, either in raising or at maturity.

After the chickens are hatched, they are placed in open-front brood coops, about twenty-five to a hen. A slat run 2x4 feet is placed in front of the coop, the hen being confined until chicks are old enough to wean. The coops are placed in an orchard, so as to have plenty of shade. After the chicks outgrow the brood coops, they are transferred to the colony houses, previously used by the breeders, and there kept until mature.

Then, my reasons, in brief, for keeping the Rose Comb Rhode Island Reds are:

First, the Rose Combs because they are not as easily frosted as the Single Combs.

Second, they cannot be beaten as winter layers.

Third, they have size enough for anyone, and are extra well meated.

Fourth, they are truly a fancier's fowl, possessing that stately carriage and that rich red color which no one can help but admire.

Fifth, they are vigorous, are great rustlers and are easily raised.

Sixth, there is ready sale for them. In fact, I cannot fill half the orders for fowls or eggs that come to me.

"Eggs for hatching for everybody." So say the breeders who have carried thru better fowls than ever before. Better Standardbred flocks. Better hatching eggs. At your service today to help you produce better flocks of poultry to help win the war. Write today and book your order for hatching eggs to be delivered when you need them. See breeders' ads. in this issue.

* * *

Bought that coal burning colony brooder stove yet? Better send the order in at once. Do not delay. Fuel administrator says plenty of coal will be available for those who operate coal burning incubators and brooder stoves. Coal is available for those who need to use it to hatch and grow chicks needed for food supply. See letter to president of International Baby Chick Association.

* * *

"Early hatched pullets produce more winter eggs and return the greatest profits." So say Government poultry experts. The surest way to get early pullets is to use incubators and brooders. Have you bought yours yet? Better order now.

Simplex Midget \$ 1 25 Feather Brooder

1 25
Postpaid

This Midget Brooder is made to fill a gap between the old "cluck" and the large artificial brooders.

We guarantee that this brooder will raise as many chicks as a "cluck" if placed in a living room or warm basement. It is made to accommodate one setting of 15 chicks, but will take care of 25 chicks for the first week.

Uses for this Brooder

Thousands of people buy baby chicks in dozen lots and have no place to properly brood them until they can take care of themselves. This Midget Brooder will take the place of the hen and raise them.

Many times a poor hatch comes out of an incubator or a few weak chicks de-



The feather hover inside can be raised and lowered to suit the size of the chicks.

mand special attention. It is a good deal of trouble to raise a few chicks in a big brooder. Why try, when you can get this Midget Feather Brooder to raise them without trouble?

When the old hen deserts her chicks, that's another time the Midget Feather Brooder is worth its weight in gold.

Construction

The body of this brooder is made of germ proof fibre board; the top and bottom are made of best grade of corrugated board and the feathers are genuine down feathers, the same as used in our larger Simplex Perfection Feather Brooders; and this brooder is guaranteed to raise every chick worth raising.

Send one dollar today and let us send you one Ly parcel post, prepaid. Money will be refunded if you are not satisfied. Also ask for our catalog of larger brooders and other poultry supplies.



Note the thickness of the downy feathers which warm the chicks.

SIMPLEX SUPPLY HOUSE, Pontiac Bldg. Chicago, Ill.

Eggs and Baby Chicks

Thorobred White and Barred Plymouth Rocks

Fill up your incubator and set all your hens with Orchard Farm's big, brown eggs. Strongly fertile and fresh from the trapnest. Pedigreed breeders' records from 200 to 261 eggs. At recent Harrisburg Capital Egg Show, our Mr. Hill won first prize 10 dozen, first prize 1 dozen, brown Rock eggs. Grand Sweepstakes prize over all color eggs, 100 dozen competing. \$12.50 per hundred; \$2.25 per setting. Sturdy Baby Chicks, 20 and 40 cents each. I guarantee safe arrival, a good hatch, full count and satisfaction. Write for full description today.

THOMAS P. DOUGHERTY Route J 202 TYRONE, PENNSYLVANIA

S.C. Black and Buff Orpingtons, World's Champions

Winnings in Black Orpingtons at Madison Square Garden, New York City, December 23 to January 1, 1918: **Cocks, 1-2-3-4; Cockerels, 1-2-3-5; Hens, 2-3-4; Pullets, 1-3-4-5; First Pen; Best Display.** Blue ribbon winners for SEVEN years at such shows as Madison Square Garden, Chicago Coliseum, Cleveland, Toledo, etc., etc. Exhibition and breeding cocks, cockerels, pullets and hens, both varieties, for sale. Also eggs for hatching. Birds of grand color, type and size, bred to win and lay. Birds shipped on approval or C. O. D. Send for handsome illustrated catalog free.

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STANDARD BRED — THE BETTER KIND

Most up-to-date and best hatching device, insuring strong, husky fellows that live and grow. Leading varieties. Prices right. Send for list.

Seneca Poultry Farm (Established 1905) Box 4, Tiffin, Ohio
Originator "Sterling Strain" Buff Orpingtons

ISBELLS Vegetables Dependable

Be prepared to have the finest, most productive vegetable garden you ever had, by planting only Isbell seeds. Known the country over as the sure crop kind. Grown in Michigan, and sold direct. **Isbell's New 1918 Catalog** shows many famous pedigreed strains. It's a valuable book and guide to bigger and better yields.

Prove By Test

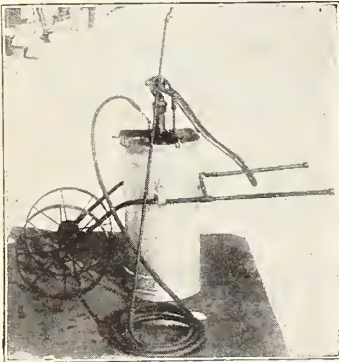
Prove the quality and germination of Isbell seeds before you plant. A new way to buy sure crop seeds that means many dollars to you. Send for your catalog today.



S. M. ISBELL & CO.
1020 Mechanic St.
Jackson, Mich.

Ripley's 3-in-1 Portable Sprayer, White-washer and Disinfectant Machine


Cog gear handle, brass cylinder and valves. Satisfaction guaranteed. The best sprayer made for spraying trees, vines, plants, or whitewashing buildings, disinfecting, etc.



Write for catalog of sprayers and poultry supplies.
RIPPLEY MFG. CO. Box A GRAFTON, ILL.

FREE 1918 PLANTING GUIDE AND PURE SEEDBOOK

GET THIS BOOK FREE
Tells how to cut living cost through productive gardens. Why nur Pure, Tested Farm, Garden and Flower Seed grows the biggest crops—the finest flowers. A beautiful 112 page book in colors. Describes new 1918 varieties vegetables and flowers. Handsomely illustrated; beautiful home grounds, flower and vegetable gardens, landscaping, shrubbery, orchards, farms. Veritable dictionary on gardening! Flower lover's delight! Berry-growers' book! An orchardist's manual! Plan your 1918 garden from this valuable book.
Galloway Bros. & Co., Dept. 310, Waterloo, Iowa

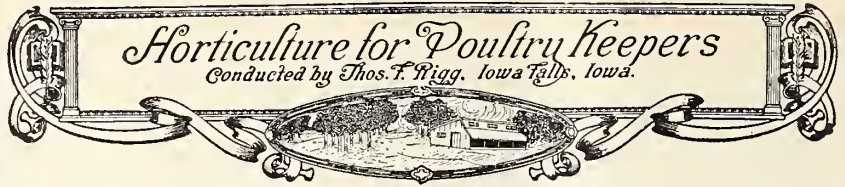


Squab Breeders Attention!

Would you invest 25 cents for several dollars worth of knowledge on Squabs? We have a limited supply of Squab books on hand which we are practically giving away. Send for your copy of "Money in Squabs," price **25c**

American Poultry Journal Publishing Co.
542 S. Dearborn Street Chicago, Illinois

YOUR WAR GARDEN in 1918 one grand success if you follow the expert planting directions and the two practical garden diagrams in this our brand new booklet. Send 10c for it to the **DE LA MARRE CO** 442-B-W, 37th St. New York. Catalog "Countryside Books" free.



I AM WRITING these lines in my hotel in Miami, Florida, on January 27. The thermometer registered seventy-two degrees at seven this morning. The weather has been glorious nearly every day. The cold which has held the North in its grip nearly all winter found its way down here on December 13 and again a few days later. *The Miami Herald* thus tells of the great damage done in this part of the state:

Yesterday morning's cold weather did considerable damage to tender vegetation all over Dade county and in some localities of the northern part of the county injured young avocado trees. Everywhere vegetables that were not protected were killed.

The thermometer at the weather bureau registered thirty-seven degrees above zero, this high temperature being due principally to elevation above the ground and proximity to the bay.

Farther west, however, temperatures were considerably lower, reaching freezing in Riverside, and below freezing north and west of the city, and in some localities southwest of Miami. Frost occurred as far south as Homestead.

The growers had ample warning, and as a result most of their seed beds were saved. The field crops, however, to the west and northwest of Miami were nearly all destroyed. South of the Miami River the damage was not so general, and some localities escaped with only slight injury.

Reports from Arch Creek indicate that the temperature there was only one or two degrees higher than in the great freeze of last February.

You will note that the *Herald* refers to the "great freeze of last February." I call your attention to this fact because it shows that cold weather is liable to come here every year. Last season

when I reported in these columns the result of that great freeze I was savagely attacked by Florida boomers and the hirelings.

I have received a very large number of letters from Northern people asking many questions as to the growing of crops here. I am going to make a general reply by quoting from *The Miami Herald*:

Experience may be the only lamp for our feet, as was once said by an eminent American, but it takes a great deal of hard experience to teach the mass of people the lessons they ought to learn more easily.

Each recurring year there comes an intimation to Dade county that the methods of production should be changed, that new products should be raised, but we still go on from year to year raising the old, unreliable crops, taking the chances of the weather, gambling on the possibilities of favorable results.

There is seldom a year, even in this most favored section of Florida, that something does not occur to destroy or set back planted crops. One year it is cold, another rain, another drought. They are as inevitable, here, as they are in any other section of the country, or in any other section of the world.

We still cling, however, to the planting of these things that are easily affected by either cold, wet or dryness. We do it because if the crop does, by some miracle, escape flood or frost, drouth or bad prices, it usually, in the vernacular, makes a "killing," and the grower reaps a profitable harvest. That is the gambling element in it.

We received one of these lessons only this week, where in many places the cold suddenly descended and wiped out crops or parts of crops of growing vegetables. The growers knew when they set out their plants that they were taking chances. They knew that there was every possibility of the failure of the fall crop, yet they went ahead with the hope that they would be lucky enough to escape disaster, and that high prices would recompense



First prize Single Comb Ancona hen at Madison Square Garden, New York City. Owned by H. Cecil Sheppard, Berea, Ohio.

them for the chances they took and the anxiety they were forced to endure.

All this could be obviated, and certain, sure profits be made, if the growers of this section of the state would, in a measure, abandon the perishables and start in on the growing of staples, crops that cannot be injured, here, by any of the things that wipe out the profits on the cultivation of the perishable vegetables, from the growing of which we have not been weaned.

Corn, cotton, soy bean, castor bean, hay and a long list of the homely things actually promise a greater profit, taking the years as they come, than does the gamble of vegetable raising. Hogs and cattle promise a more permanent industry and more profitable in the long run, than does the growing of vegetables, and yet it is most difficult to induce the grower to think on those things, much less to start in to build up a certain and a sure business.

And thus we go on, from year to year, depending on our uncertain and fluctuating vegetable crops, while we might be building up a permanent prosperity by resorting to the intelligent cultivation of the things for which there is always a demand and for which there are no climatic threats.

This is a candid and truthful statement. I have been spending the winter here for nine years and conditions sustain the *Herald* in its statement

* * *
I have been referred to you for information in regard to how deep to plant pear trees. I have about fifteen young pear trees four or five years old. They are about 1 3/4 inches in diameter. On some of them the first roots are six or seven inches below the surface soil. I think they are planted too deep. The soil is a heavy black mixed clay. Ohio. Ed. Creig.

These pear trees may be planted somewhat too deep, but I would not advise transplanting them. All fruit trees should be planted an inch or two deeper than they were in the nursery row. Keep the heavy soil around your pear trees well broken up and cultivated, at least until the trees begin to bear normal crops of fruit.

* * *
Fresh eggs are selling at 60c to 70c a dozen here. This is the height of the tourist season. The hotels are full and people are being turned away every day. The fact that eggs bring this high price here is conclusive evidence that it costs a lot to produce them here.

* * *
Will the following apples be all right for planting in Fond du Lac County, Wisconsin: Jonathan, Grimes, Spitzenburg, Ortley, Delicious, Stayman, Rome Beauty, White Winter Pearmain, Yellow Newton, Winesap and Arkansas Black? I have one acre of land and want to plant a dozen or two apple trees on it for shade for my poultry and at the same time to get some good apples. Early apples are plentiful here in this town, and mostly given away, but late ones are not grown in any quantity, so want to see what I can do along this line later on. I think it would pay in this town to have a five or ten-acre orchard of late apples. In the stores they charge two and one-half cents per apple for the above named varieties.

Wisconsin. H. Bulto.
The list of apples you submit is a good one with a few exceptions. I advise you to plant Delicious, Senator and McIntosh Red. These are all winter apples of the finest quality. The trees are hardy and will withstand severe winters. Grimes Golden, if double-worked on Delicious or some other hardy kind, might endure your cold winters. The Winesaps, Newton and Spitzenburg are not adapted to your climatic conditions. Neither is Arkansas Black. The White Winter Pearmain is of little worth commercially. Neither is the Ortley. You will find the kinds I advise both profitable and in great demand.

* * *
J. B. Morris, New York, sends me the following clipping from his home



The call this year to cultivate is the most imperative in history

Answer it by using Planet Jr garden tools to grow your own vegetables. Planet Jrs are so designed and constructed that they do thorough, rapid cultivation.

You save time, labor, money, cut down living expenses, and increase the food-supply.

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No. 4 Planet Jr Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow sows all garden seeds (in drills or hills), plows, opens furrows and covers them, hoes and cultivates all through the season. A hand machine that does the work so easily, quickly and thoroughly that it pays for itself in a single season.

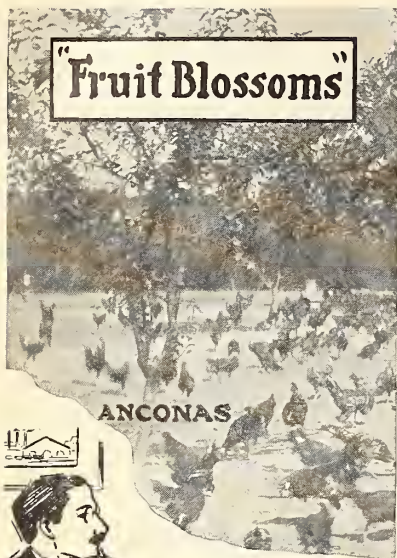
No. 12 Planet Jr Double and Single Wheel-Hoe is the greatest combination hand-cultivating tool in the world. The plows open furrows, cover them, and hill growing crops. The hoes are wonderful weed-killers. The cultivator teeth work deep or shallow. Crops are straddled till 20 inches high; then the tool works between rows with one or two wheels. We make 24 styles—various prices.

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When
you
think
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Spring

you think of the wonderful blossoms of every fruit tree—of the exquisite green sheen of the fields and trees—of the thrilling voices of singing birds—of the wonderfully shrill Chanticleer's voice carried on the sweet perfumed zephyrs of SPRINGTIME.

Isn't it a bountiful and unrestrained feeling when you can walk to the "park" and get YOUR OWN "fresh eggs" for use in the home? And you KNOW they are fresh! Home gathered fresh eggs for breakfast! Who can wonder that so many are calling for

SHEPPARD'S Famous Anconas

the strain that has a record of 331 eggs in 365 days. As well—they have, for eleven consecutive years, won ten times as many first and second prizes at the Madison Square Garden Show as the nearest competitor. For beauty, exhibition and production they are unsurpassed.

Not only can you have "fresh eggs" and meat from YOUR OWN production, but you can market the surplus very much to YOUR PROFIT. By ordering a "setting" of eggs or a "pen" of the SHEPPARD FAMOUS ANCONAS you can start them working for YOUR PROFIT and USE.

Orders for "settings of eggs" will be filled consecutively—hence, early ordering will facilitate delivery at the time you want it.

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**H. CECIL
SHEPPARD**
BEREA, OHIO

President
International Ancona
Club.



newspaper and asks of what value are coal ashes as a fertilizer:

It is understood that a number of farmers in Chautauqua County will experiment with coal ashes next spring as a substitute for fertilizer. A number of farmers have had good results raising potatoes with coal ashes as a fertilizer, and if it proves a success it is expected that there will be a big demand for coal ashes another year.

I am asked this question several times each year. As before stated, there is scarcely a trace of plant food of any kind in coal ashes. They are valuable, however, because they put the ground to which they are applied in good physical condition. Used on stiff or hard land, they serve to make the soil lighter and able to retain moisture. I use every pound of coal ashes produced at home, and find I am well repaid for the labor of broadcasting them on the land.

* * *

I am a graduate nurse by profession, but I was raised on a farm in Kansas and lived there over twenty years. I am now looking for an opportunity to get a small place and it seems to me that the South is the only place where land is reasonable in price. Here in California the price on land is far too high for a poor man. If you know where I can secure honest, reliable information in regard to any of the Southern states, as, for instance, Tennessee, Arkansas, Kentucky, the Carolinas, I would be glad to know about it.

California. E. G. Haley.

You can secure the desired information by writing the land department of each of the states you name. Get in touch with the authorities in the Agricultural Colleges of these states.

* * *

Have been reading your valuable advice and would like to call on you to help me. I am a young man with only \$600 but want to start farming. I grew up to 18 years of age on a farm in Europe and have since been eight years in this country, but so far have not been anywhere except here in St. Louis, where I am at work now, and for two years was with my father-in-law, who is a farmer in Southern Mississippi. He is still down there, and while there I liked that country well for farming, as we could be out on the farm every day in the year. Of course, you know that the soil down there is poor and has to be built up first. Now, along comes my brother, who also wants me to go farming with him within a year or two, and he is trying to get me interested in farms in King County, California, in what they call the San Joaquin Valley. He has been reading some books from down there and he wants me to go with him this coming summer and look over that country. I have been thinking for some time that I would go down south to Mississippi to work with my father-in-law and try to get started down there. I do not know which way to go. If I thought California would suit me better than down South, I would go with my brother; but I don't care to spend hard-earned money without knowing whether it suits me or not. So here is where I need advice. Dear Mr. Rigg, in your opinion, are the chances better in California for a young married man like I am than in Mississippi? I hope you can understand the situation as I have tried to explain it. I am quite poor at the American language but am trying to learn every day.

Missouri. Joseph M. Stutz.

I wish I could so advise this very earnest young man that he might make the move which would bring him prosperity and happiness and contentment. But I cannot do it. For general farming there are lands in Mississippi which are exceedingly profitable. No doubt at all that Mississippi is a better agricultural state for staple crops than is California, but the latter state has a glorious climate and is rich in fruit production. There are also some good farming lands in the state. I take it that my correspondent has had no experience in fruit-raising. It looks as tho it would be best for him to devote his energy to general farming. This being the case, he would be able to find some very fine farming land in the delta



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Sam**
hands us
your
inquiry

he advises

"Use more poultry, rabbits and sea food in place of beef, mutton and pork." And further—"produce more by utilizing all waste matter thru the raising of poultry and rabbits for eggs and meat." Raising poultry will not only increase the meat of the country and "help win the war," but will, as well, increase YOUR PROFITS each day.

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They produce greater in eggs than any other strain of poultry—and it costs less to feed and care for them than even poor, mongrel birds that are always poor producers.

SHEPPARD'S FAMOUS ANCONAS "lay eggs" while other birds "lay down" on the job. By proper breeding, Anconas have established an egg record of 331 eggs in 365 days—have won, in eleven consecutive years, ten times as many first and second prizes at the Madison Square Garden Show as the nearest competitor. For exhibition, production and beauty they are unrivaled.

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are becoming more popular every day. You can start this FAMOUS STRAIN working for you in the SPRING and can produce more eggs and meat for your table and the market by beginning with a "setting" of eggs or a "pen."

Follow UNCLE SAM'S advice — and increase your SPRINGTIME PROFIT AND PLEASURE.

The "setting" can come to you whenever you want it. Orders will be filled consecutively—thus early ordering will assure delivery of YOUR setting when YOU want it.

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**H. CECIL
SHEPPARD**
BEREA, OHIO

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Club.



country of Mississippi. I advise him to look over the state carefully before deciding where to locate.

* * *

At the close of the grape season last fall the Breeze mentioned that the Welch Grape Juice Company was experimenting with a new product, intended to utilize grapes not considered fit for the high-grade grape juice that is put out by that company.

Large quantities of grape pulp were stored in carboys, after the skins and seeds had been removed. It is expected now that by next month they will have ready for the market some fine grape marmalade or grape butter prepared from this pulp. This new line of work is in line with the recommendations of the Government that plants engaged in manufacturing beverages should also be utilized, if possible, for the production of some food product, at least during the war. The Welch people hesitated about putting out a new product under their name until they had experimented with it and found that it was something really good.—North East, Pa., Breeze.

This war is going to teach us many lessons. One of them is that we must not waste food products which we can use. For years there has been a great



A new Portable Whitewasher and Sprayer. Manufactured by Rippley Mfg. Co., Grafton, Illinois.

waste in the handling and food product making of the grape. I am glad the Welch people are going to make this great saving.

* * *

Can you give me the name and address of the nursery where I can purchase the "Iowa Brilliant" apple tree, the Summer Pear apple tree, the Royal Purple raspberry, and the Endicott, Omaha, America and Gold plum tree? Will these varieties do well here in the Lake Shore country of Western Pennsylvania?

Will H. Fenter.

You can secure the Iowa Brilliant and Summer Pear apple trees of the Patton Nursery, Charles City, Iowa. The only nursery selling the Royal Purple raspberry is L. J. Farmer Nurseries, Pulaskee, N. Y. The plum trees named can be secured of Stark Bros. Nursery and Orchard Company, Louisiana, Mo. All the fruits you name are perfectly adapted to the section you refer to.

* * *

There is a wonderful crop of grapefruit here this season. The cold weather in the North and the poor railroad service have worked greatly to the disadvantage of the growers here who have not been able to make normal shipments. Then, too, the scarcity of sugar has hurt the sale of grapefruit in the North. Taken all in all, it is not very encouraging to men who are thoroly posted on the situation, to put money into grapefruit groves or lands at this time. As before stated, I believe a grapefruit grove in Florida, located in

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**34¹/₂C
A ROD**

KITSELMAN POULTRY FENCE is made of Open Hearth Basic steel wire, drawn annealed and galvanized in our own mill. A strong, durable, closely-woven, **RUST RESISTING FENCE** that will last for years, requires fewer posts, no base board or top rail. **NOT A FLIMSY NETTING BUT A POULTRY FENCE.** Stretches perfectly and stands up on the posts like a farm fence—does not sag, bag or buckle. You can't beat Kitselman Fence for quality, and it's **Shipped From Our Factory**

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Kellogg's big red strawberries are the biggest, sweetest and most delicious strawberries grown. You can grow them right in your garden or back yard.

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Get this book and make \$500 to \$1200 per acre. It tells how to make one acre do the work of two and all about Kellogg's wonderful Everbearing Strawberries which are loaded with big, red berries from June until snow flies. It also explains the big cash prizes we offer boys and girls, and contains

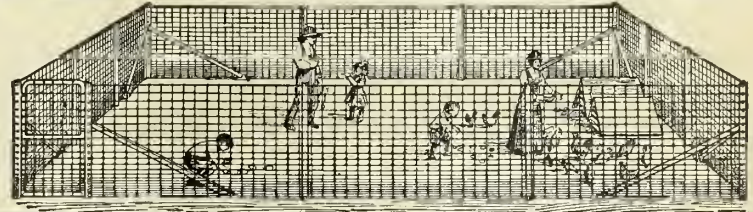
30 Strawberry Recipes

for the women folks. Tells them how to prepare all kinds of strawberry dainties. Also gives complete information about Kellogg's wonderful strawberry gardens. Write today for this book. It's **FREE** and postpaid. A postal brings it by return mail.

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Winners of over 400 premiums at Madison Square Garden, New York, and Chicago. Six firsts at the Greater Chicago Show last month. They won thousands of premiums at all the leading shows for our customers. We have 500 head of very choice exhibition and breeding birds at bargain prices, line-bred for 32 years. They have the size, shape and color. Can fit you out with almost anything you may want in this line. Eggs, \$3 and \$5 per setting. Also Golden Sebrights. Large illustrated circular.

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the right place and operated by a man who knows his business, is a good thing to own.

* * *

In the December issue of American Poultry Journal I note your kind offer to give any of the readers information in regard to the conditions and climate in Southern Florida and I am going to avail myself of the opportunity.

I sold my poultry farm here last September but not my stock and I am looking for a new location. The feed proposition here is frightful. Have to pay three prices for all feed and beg to get it besides. I am more than breaking even and I guess I can't complain, as my pullets are giving me a 50 percent yield under the unfavorable feed and weather conditions. My circulation is so poor that I can't stand cold weather and I would like to move South if I can find a year-round home where the health conditions are good. I know the winters around Miami must be fine, but how about the summers? Do you think that there is any section of Florida that is free from malaria and insect pests that would make me a desirable year-round home? Eustis and Leesburg, in Lake County, have been suggested to me as being ideal. What do you know about them? Has the colony that settled the new town of Detroit, just south of Miami, on the drained land there, been successful? What do you think of that section? I would like to increase my income by keeping a flock of poultry wherever I go as I enjoy the work with them. What are the conditions for profitably raising poultry around Miami? What are the prevailing prices of bran, grain, etc., there? Are the summers excessively hot, and can you grow grass of any kind there successfully and keep it growing on a poultry range? If you will be kind enough to answer these questions and give me whatever advice you have to offer in regard to moving to Florida, I will appreciate it.

Maryland.

J. E. Moore.

I will take up the questions in order asked:

1. The summers in the vicinity of Miami are not at all oppressive or disagreeable. The ocean breeze is always doing duty and prevents the temperature from running high. In fact, severe warm weather is almost unknown here, within a reasonable distance of the ocean. Of course, further in the interior of Dade County, of which Miami is the hub, the heat would be oppressive.

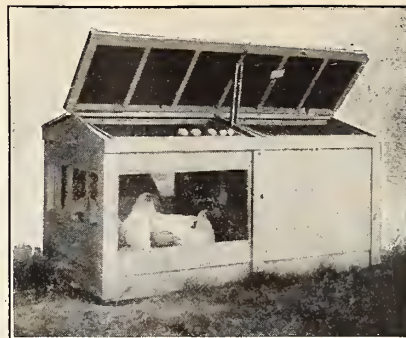
2. There is no malaria in this part of the state. The soil is porous and underlaid with a porous limestone. This makes it impossible for malaria to exist here.

3. Lake County is one of the very best sections of Florida. The land is high, has a clay subsoil and is exceptionally adapted to the production of citrus fruits and agricultural crops. The county has numerous beautiful lakes. The summers there are warmer than on the coast but are not objectionable. I am sure that you will find if you investigate that people there are prosperous and contented.

4. The Detroit project to which you refer has not been much of a success. I strongly advise you to have nothing to do with any of the Everglade propositions.

5. I know of no one who is engaged in the poultry business in a commercial way in this section. As I have so often stated, I do not think it wise for a man to go into the poultry business commercially here. My opinion is based upon facts gathered after eight years of careful research. Of course, the boomers and the hirelings will tell you of the great profits to be made here by poultrymen. Don't you believe it.

6. The following are the prices at which grains are now selling at retail in Miami: Corn, \$4.50 per hundred pounds; oats, \$3.50 per hundred; corn



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AS WELL as provide the best possible conditions for the fowls. A trial side by side with old style houses will prove that fowls in the Philo System Coops will mature more quickly, gain more pounds at less cost, lay more eggs, and are freer from disease. Coops come ready to set up; built in complete sections that are quickly screwed together. Cost less than to build old style houses. Sizes from six to 25 hens. Prices \$8.00 to \$35.00.

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Our pens are now mated with first prize winners at the Chicago Coliseum, and the Madison Square Garden, 1917. Mating list free.

Eggs, \$2 for 15; \$10 for 100

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Mention the American Poultry Journal when writing to advertisers.

meal, \$5 per hundred; bran, \$2.70 per hundred, and hay, \$45 per ton.

7. There are no grasses here as we know them in the North. It is hard, in fact almost impossible, to keep up a green growth of grass here for poultry.

I most strongly advise my correspondent to make a careful personal inspection of Florida before deciding to remove to the state. It is simply impossible to get the true facts in the case in any other way.

* * *

I wish to ask your advice in regard to taking up farming. I am 36 years old and have a wife and two children, a girl nine years and a boy five. My family are accustomed to all city conveniences. I own my house and am at present employed in an office doing clerical work which does not seem to agree with me and I do not like it. I am very fond of Nature and dearly love outdoor work of all kinds and most of all I like farming. I always feel fine when I can work around my chickens, a few of which I keep in the back lot. I have kept chickens for many years and understand the care of them quite well. I also have berries and plant all kinds of vegetables. I helped to raise potatoes and beans on a couple of acres near Detroit. The work was most agreeable to me. I have a



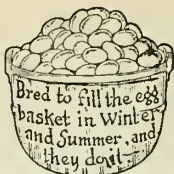
The Little Putnam Stove, used to keep water from freezing and to furnish heat for the Putnam Oat Sprouter. Patented by I. Putnam, Route 305, Elmira, N. Y.

brother-in-law who would like to go farming with me but our ideas do not seem the same on the subject. I favor a small farm and want to keep a few hundred chickens, some berries, a garden and orchard, with a comfortable home, with as many city conveniences as possible. Want to be reasonably near schools, churches and stores. The land around Detroit is very high—\$200 to \$250 per acre. My brother-in-law favors raising cattle or general farming on about 160 acres, paying not more than \$50 or \$60 an acre for the land. He has had some experience in farming and is very ambitious, quite agreeable and very determined. Would you advise me to go with him on his proposition or would you favor my idea? I would be willing to try general farming. I feel it would do me good and my family also. I am not very robust but am fairly strong. If we went into this together, we could raise \$8,500 to \$9,000.

Michigan. W. Demeske.

I cannot decide the question for you as you put it to me. And I do not know that I would care to assume the responsibility of doing so if I could.

I feel that your brother-in-law is perfectly sound in his contention that the



Hatching Eggs from 200 to 267 egg record trapnested

S. C. White Leghorns

Our years of trap-nesting and experimenting has produced layers that can't be beat. Our layers have records from 200 to 267 big white eggs in one year. These egg machines are mated to vigorous males bred from 267-egg record hens. A visitor to our farm always means a buyer. They are always singing, scratching and laying big white eggs. It's not the way we feed, it's the way we breed. We will furnish you with hatching eggs at these low prices: Eggs from 200 to 220-egg stock, \$2 per 15, \$10 per 100; from 220 to 267-egg stock, \$3 per 15, \$15 per 100. You need hatching eggs from our stock if you want winter layers. Order now and get your eggs when you want them. Safe arrival guaranteed.

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The bursting shells of American Chickdom presage victory for American arms if you do your bit, for "chickens may win this war."

Do it NOW by sending in your order QUICK before the great DRIVE is on. Prices for delivery after February 15, 1918, live delivery guaranteed:

- S. C. White or Brown Leghorns, per 100.....\$11 50
- Barred or White Rocks, S. C. or R. C. Reds, White Wyandottes, Black Minorcas and Buff Orpingtons, per 100..... 13 50
- Anconas, per 100..... 12 50
- Light Brahmans and White Orpingtons, per 100..... 15 00
- Golden Campines, Silver Campines, Black Orpingtons, Buttercups, Speckled Sussex, per 100..... 20 00

Great Brooder Stove Offer. Catalog free. Stamps appreciated. NABOB HATCHERIES, Box A, GAMBIER, O

TARBOX'S Silver Wyandottes, Red and Speckled Sussex

Winners at America's leading shows. This last season at the Illinois, Iowa, Wisconsin and Texas State Fairs and at the Chicago Coliseum, Milwaukee and Cleveland shows, our Wyandottes and Sussex won twice as many firsts as all our competitors combined. We have a fine lot of birds for sale at prices that will please you. Only a few cocks and hens left. EGGS at reduced prices. Wyandottes, \$3.00, \$5.00 and \$3.00 per 15; \$35.00, \$20.00 and \$12.00 per 100. Sussex, \$5.00 and \$3.00 per 15; \$20.00 and \$12.00 per 100. Utility matings in either at \$6.00 per 50, \$10.00 per 100. The above prices take the eggs from the same pens as we will hatch from. If you want some of them you better order early, as we are booking many orders now. Write us for what you want and get catalog and mating list.

A. & E. TARBOX - Box A - YORKVILLE, ILLINOIS

PALMER'S BARRED ROCKS

One of America's greatest strains, proved by their wonderful winnings in America's greatest show for over 25 years. Write for our mating list, giving a complete list of our winnings, prices of eggs and description of our breeding pens. A few fine breeding birds left for sale at bargain prices. If you want the best in Barred Rocks, come to us and we can come as near to doing it as any other breeder. The majority of our breeding pens are headed by our Chicago winners.

D. F. PALMER & SON - Box 35 - YORKVILLE, ILL.

3 years—36 issues—of American Poultry Journal for \$1

Hayward's White Plymouth Rocks Are Fashion Plates of White Rockdom

They are noted for superb balance and finish, possessing a distinctive type which appeals strongly to all. As prize winners they have demonstrated their superiority by decisive victories over all competitors at Boston in 1916 and 1917, winning Champion Male and Best Display both times in extra strong competition. Hayward's White Rocks have also won for customers this season at Boston, Madison Square, Montreal and other important shows, proving that the quality of the stock is high and that my customers' interests are well served. May I not have opportunity to serve you? Stock and eggs for sale at reasonable prices. Complete satisfaction guaranteed always. Illustrated booklet free.

W. F. HAYWARD Box C WESTBORO, MASS.



Champion at Boston, 1917



Poultryman's Pocket Companion

Fits Any Pocket. For Ladies and Gentlemen. Satisfaction Guaranteed. **50c** Post Paid

Guaranteed Genuine Leather Pocketbook
The "American Bankroll"—1918 Model. Combination Billfold, Coin Purse, Card and Photo-case of Finest, Genuine Black Seal Grain Leather with the show and elegance of a Dollar Article for only 50 cents, postpaid, (\$5.40 per doz.) Any name beautifully engraved in 23-karat Genuine Gold free (street number and city 20c each extra.) Iron-strong, yet wonderfully limp and flexible. Measures 3 3/4 inches folded. Has coin-purse, bill-pocket, photo or pass-window, 2 secret pockets, check book holder and 48-page Memo-Diary, brimful of interesting information, such as, first aid to the injured, interest calculation, weights and measures, legal holidays, postal information, health information, important dates and payments due, addresses and telephone numbers, bank deposits, memoranda, 12 months cash account, expense account, inventory and 1918-1919 calendars, etc. If unable to get money order or bank draft, send postage stamps. 12th annual catalog of high grade GUARANTEED LEATHER GOODS and NOVELTIES free with orders for "Bankroll" or sent alone for 10 cents postage.

U. S. LEATHER GOODS COMPANY.
Established 1906. Incorporated 1910.
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Baby Chicks

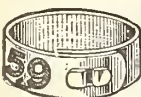
For immediate delivery and later.
White Leghorns White Rocks
Brown Leghorns Barred Rocks
White Wyandottes R. I. Reds
These "Virginia Chicks" are pure-bred and possess unusual utility value. From healthy, free-range flocks of selected breeders. Bred, hatched and shipped RIGHT. Big value at our prices.

Write at once for free catalog
HARRISONBURG HATCHERY, Inc.
Box G Harrisonburg, Virginia

Uncle Sam's War Horses White Wyandottes

Make a new record at Madison Square Garden, 1918. In the money for 25 years. To help win the war best eggs reduced to \$5.00 per setting. Nowhere on earth can this be duplicated. Special: 100 prime breeding cockerels, \$3.00, \$4.00 and \$5.00, each. Warning: Do not place order before writing me.

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IDEAL ALUMINUM LEG BAND
To Mark Chickens
CHEAPEST AND BEST
12 for 15c; 25-50c; 50-100c; 100-50c.
Sample Band Mailed for 2c Stamp.
Frank Myers, Mfr. Box 40, Freeport, Ill.

50 BEST PAYING VARIETIES
Hardy Northern raised Chickens, Ducks, Geese, Turkeys. Pure-bred heaviest laying strains. Fowls, Eggs, Incubators, all at low prices. Large new Poultry Book and Breeders' Complete Guide FREE.
W. A. Weber, Box 50, Mankato, Minn.



160-acre stock and general farm is the better proposition. I also feel that you would not be able to satisfy your demands and your wants on the income from a small farm, managed as you evidently would manage the small farm to which you refer. A few chickens, a few berry bushes, a few vegetables and a small orchard could yield but a small income.

I think that the man who buys a farm in any of those sections suitable to growth and market development of cattle and hogs will be the one most favored in the years to come—as they are today. There are many sections of the country where there can be bought for less than \$60 an acre some extra good land of this character. I am fully convinced that it is to one's advantage to get into the mid-south where the winters are not so severe. Of all of the sections of the country—and I have seen and examined conditions in all of them—I consider Southwestern Virginia, the most favored spot for the raising, marketing and finishing off of beef cattle. The winters are mild, the air is pure, as is the water, which is abundant. Grasses grow to perfection in that section. There is no better climate in all the world. It is near the best markets in America. Cattle can be fattened on the pasture there and placed on the market directly from the grass. It is the only section that can produce export beef cattle directly from the pasture and top the Liverpool market. I know that in due time this will be a wonderful cattle country and the men who get in on the ground floor now will be very fortunate.

* * *

I attended a meeting of the Chamber of Commerce of Miami last evening. This body is interesting the farmers here in the raising of the castor bean. More than 10,000 acres will be planted in this county. The Chamber of Commerce furnishes the seed to the planters at \$3.50 per bushel and agrees to pay them \$3.50 per bushel for the beans when harvested. The product of this bean is castor oil, and the Government is using many thousands of barrels of this oil annually in the operation of its war flying machines.

Dampness in the poultry house at this season usually means not enough fresh air, or too many fowls in the house for the contained cubic air space. If the house is shut up snugly at night, by curtains or otherwise, there is bound to be frost and dampness on the walls. A little frost may show in any house in severe weather, but it is seldom troublesome and never dangerous in a properly constructed always-open-front house. Cloth curtains do not permit any worthwhile ventilation. If used, they should never be wholly closed.

* * *

Uncle Sam wants you to "raise more poultry." He says: "More poultry means more eggs and more eggs and poultry meat means a greater food supply." The world needs food, more food, much more food than is in sight. "Raise more poultry and help win the war." Start with an incubator and eggs for hatching. Grow the chicks in a good brooder. For a quick start buy a brooder and a brood of 25 to 50 baby chicks. Act now. Today.



Dr. Globe Says:

"It's your duty to raise more poultry. Help feed yours and others."

Blue Ribbon Poultry Feeds

will help you do this easily and economically. Start with

Blue Ribbon Little Chick Feed

It will make them grow fast and strong. This is only one of the famous

Blue Ribbon Poultry Feeds

Send for our book "Poultry Feeding Illustrated" and samples of our feeds. For sale by feed dealers everywhere.

GLOBE ELEVATOR CO.
25 Seneca St. Buffalo, N. Y.

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SAVES feed, labor, time, worry
GUARANTEED

Order from your dealer—direct from us if necessary
Complete catalog FREE

The Norwich Automatic Feeder Company
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SPIRALETS

Mark Your Birds Distinctly Without Numbers
True colors. Correct sizes

Dark Blue	Light Blue	Yellow
Red	Pink	Amber
Purple	Black	White

Size for	12	25	50	100	250	500
Baby Chicks...	\$0.10	\$0.20	\$0.30	\$0.50	\$1.10	\$2.00
Growing Chicks	.10	.20	.35	.55	1.30	2.25
Leghorns, etc...	.15	.25	.45	.70	1.50	2.50
Rocks, Reds, etc...	.15	.30	.50	.75	1.65	2.75
Asiatics, etc...	.15	.30	.50	.80	1.80	3.00

Postpaid. 12 samples and circular 15c. Made by **M. BAYERDORFFER HUGUENOT PARK, N. Y.**

Increase the Egg Yield

Because the Ideal Sanitary Fountain keeps water at the right temperature in zero or the hottest weather, it conserves the health of the hens and greatly increases the egg yield. The Ideal is made of galvanized iron and built to last a lifetime. See your dealer. Write us for complete information.

Rockford Poultry Supply Co.
Lock Box J. O. 201
Rockford, Illinois

GREAT INJUSTICE TO PATRIOTIC POULTRYMEN.

Food Administration Edict Against Sale of Live Poultry Will Defeat Its Own Stated Purpose. — Should be Withdrawn at Once.

By PRINCE T. WOODS, M. D.

IF THE United States Government wants increased poultry production, there is just one way to bring it about, and that is *give the poultrymen a square deal* and a chance to secure fair and just returns.

Poultrymen do not lack patriotism. They possess an abundance of it. They are willing to work hard from 16 to 18 hours a day to help increase production of the necessary poultry and poultry products. They have had mighty hard sledding for the past year. Many of them have lost heavily because of grain prices quite 200 percent above normal, while poultry and egg prices have shown no proportionate increase. Most of the year there was no increase in prices of poultry produce and it is only within the past three months that prices of poultry and eggs have averaged about 25 percent to 35 percent above the normal of other years for the same season.

This is the time of the year when poultrymen everywhere are starting more hatches for early chicks and have some broods already growing to make the early pullets for next fall and winter's egg production. When greatly increased production is wanted and needed, this is a poor time to slap the poultryman in the face with most discouraging interference with his business. Interference that is ill-advised, absurd from a practical point of view, unjust, and certain to do untold harm. If we want production we cannot afford to injure and discourage skilled producers. Back-lot poultry work should undoubtedly be stimulated, back-lottery should keep poultry to be sure of a home supply of eggs, but that alone will not solve the problem of eggs and poultry meat for the Nation.

News dispatches to the daily press on February 12 state that:


The United States Food Administration announced tonight that it has forbidden licensed trading in live or freshly killed hens and pullets. Dealers have been notified that fresh stock of this kind already purchased must be disposed of by February 23 and that additional stocks may not be purchased. They may still handle stored or frozen stocks.

By restricting the killing of chickens, which should soon be heavy layers, the Food Administration hopes to increase the production of eggs, adding to the available market supply and at the same time allowing them to go into storage during the season of high production at a price which will not necessitate unreasonable figures for storage eggs next fall and winter. Further slaughter would possibly reduce this year's production to the danger line.

Both the Food Administration and the Department of Agriculture have advised saving all hens and pullets for egg production.

The Food Administration some time ago requested dealers to reduce the killing of possible egg producers, urging them to confine their purchases to cocks and cockerels. It now has made the request a definite prohibition. Failure to observe this order would constitute a violation of the Food Control Act. It would be followed by revocation of license or could be punished by a fine of not more than \$5,000, by imprisonment for not more than two years, or by all three.

New York, February 12.—Maximum wholesale prices for poultry in New York and vicinity have been fixed as follows by the Federal Food Administration, according to notice received by Local Administrator Arthur Williams: Fowls, 36 cents; chickens and young roosters, 35 cents; old roosters, 27 cents; turkeys, ducks and geese, 35 cents.



I want to show you how to make Money with Poultry T. E. Quisenberry

What Others Say.

I can now ease enough on feeds to pay for the entire course. **C. M. HILL,** LaGrange, Ill.

I would not take the price of the whole course for the lessons on breeding and mating. **F. L. NOYES,** American Fork, Utah.

I could have saved about \$400 had I taken your course before I started. **FRANK SAWYER,** North Woburn, Mass.

The knowledge I have gained from the disease lesson is worth the price of the course. **GEORGE W. MORRIS,** Russellville, Ky.

I have been in the building business for 30 years but your lesson on poultry house construction is the best I have ever saw. **E. M. WIGGIN,** Kansas City, Kas.

Your lesson on baby chicks is just what we have been looking for. Last year we lost 650 chicks out of 1500. This year we lost 66 out of 1800. This is the result of just one of your lessons. **GEO. M. JONES,** Escondido, Calif.

IT is my earnest desire to put a real—useful—practical poultry education before every man and woman who is interested in poultry raising. I want to see more and better poultry raised—I want to see more people making money with chickens—I want to eliminate the losses and disappointments that so many poultrymen experience—I want to help you solve your poultry problems—and I can do it.

A Complete Poultry Education

I have made it possible for you to obtain right in your own home, during spare time, a complete—thorough—and practical a knowledge of poultry husbandry such as you could get nowhere else except at an agricultural college.

In a course of lessons taught by mail, I have completely covered the science of poultry husbandry and made it so plain and simple that anybody can understand it. I give you knowledge it has taken me a lifetime to acquire.

I show you how I make hens pay a big profit each year. I show you how I got 2,354 eggs from ten hens in a year. I show you how to feed for a big egg and meat production, how to select a site for your poultry plant and how to how to get winter eggs and spring broilers—how to incubate and raise baby chicks—how to mate and breed—how to avoid and treat poultry diseases—how to show and win at poultry shows—how to dress and market poultry for the highest profits. In other words there is no phase of poultry culture that you are not taught thoroughly. Hundreds of our students tell us that each lesson is worth the price of the whole course.

You cannot afford to be without these lessons. They pay for themselves many times each season in increased egg yield—in preventing losses from disease—in knowledge. The broadest guarantee it is possible to write covers this course. If you are not satisfied you do not pay.

Get Our Free Book Today

Our Free Book "Dollars and Sense in the Poultry Business," fully explains how we can help you to make more money and save money raising chickens. It explains in detail just what our lessons teach you and what they can do for you. Just fill in and mail the attached coupon or send your name and address on a post card, no letter necessary, and a copy will be sent you by return mail.



T. E. Quisenberry, Pres., American School of Poultry Husbandry
Leavenworth, Kansas Box 206

Use This Coupon on my part send me a copy of your FREE BOOK.
Name _____ Address _____ Town _____ State _____ R.F.D. 255
Without obligation on my part send me a copy of your FREE BOOK.



"Sunbeam Hatchery"
Baby chicks for sale from leading varieties, including Rocks, R. I. Reds, Leghorns, Anconas, Wyandottes, etc.; reliable service guaranteed; order now for early delivery.
H. B. TIPPIN
2433 S. Main Street Findlay, Ohio

Scientifically Bred—Range Raised—Trapnested

Single Comb White Leghorns
Exhibition and Utility

From pen gotten in 1916 customer raised 24 pullets averaging 225 eggs per year. Is getting from 45 hens and pullets an average of 25 eggs per day in mid-winter. **Breeding Cockerels** that will improve your flock at \$5.00 to \$10.00 each. Vigorous **Baby Chicks** at \$20.00 per 100, safe delivery guaranteed. Selected **Eggs for Hatching** at \$10.00 per 100 and up. Avoid disappointment by booking your order early. Catalogue free.

Satisfaction always

Fourche Mountain Poultry Farm
CUMMINS RATCLIFFE, Owner. R. F. D. No. 11 LITTLE ROCK, ARK.

Middlemarch Champion Orpingtons
Buff and Black. Eggs at \$2.50, \$5.00 and \$10.00 for 15—ten live chicks guaranteed or replaced free. Pedigree cockerels from National winners at \$5.00. Write for full descriptions.
JESSIE F. GORDON - Box 535 - Spring Valley, Minn.



51 Prizes Madison Square

Rose and Single Comb

Brown Leghorns

Records, 200 to 266 eggs. Big birds, large eggs.

Rose Comb Whites. 244 egg line. Eggs large as Single Comb Whites.

Single Comb Whites. 288 egg line, large white birds, large eggs.

Barred Rocks. 270 egg line.

S. C. Reds. 243 egg line, fine large birds and large eggs.

White Wyandottes. 245 and Silver cup. Eggs \$2 to \$7 for 15; \$10 per 100. Catalog.

W. W. Kulp, Box 70, Pottstown, Pa.

My Loss—Your Gain

"It's an ill wind that blows nobody good." I had the misfortune to have some of my cockerels frosted, and have a lot that I will let go at \$3.00 to \$5.00 each. They are from my high record stock worth a great deal more than I ask for them. This accident in no way affects their breeding value. They are my famous

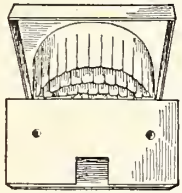
S. C. W. "Lay"ghorns

and will increase the egg production of your flock.

I have **Breeding Hens** with records of from more 160 to 200 eggs than I can carry over. I **Three for \$6.** Send for will let them go at **Three for \$6.** mating list.

EMORY H. BARTLETT Box 19 ENFIELD, MASS.

BROODER \$1.25



Holds 25 to 75 Chicks

A strictly Sanitary Fireless Brooder that is used by poultrymen everywhere.

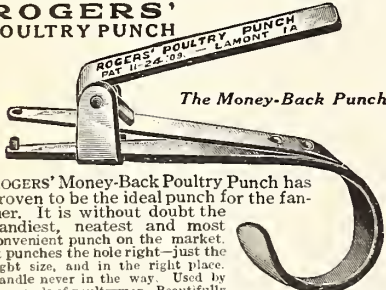
OVER 30,000 NOW IN USE. Will Brood 25 to 75 chicks. Chicks can not crowd nor smother. If you have large or small flocks you should have this Brooder.

Sent anywhere for \$1.25. Five for \$5.00

Order direct from this ad. Ask for our Chick Book how to raise chicks with success also our prices on baby chicks and stock. It will pay you to get this valuable book before ordering your chicks and Brooders. This book is free. Send today.

JAS. W. HOUCK CO., Box 20, Tiffin, O.

ROGERS' POULTRY PUNCH



ROGERS' Money-Back Poultry Punch has proven to be the ideal punch for the fancier. It is without doubt the handiest, neatest and most convenient punch on the market. It punches the hole right—just the right size, and in the right place. Handle never in the way. Used by thousands of poultrymen. Beautifully nickel plated, 45c postpaid; plain, 35c postpaid. Circular giving system of punch marking with every order.

T. W. ROGERS Box A LAMONT, IOWA

Why Poultry Pays and How to Make It Pay

By Morgan Bates. A "straight from the shoulder" talk on raising poultry from the money-making point of view. It gives the beginner sound advice about starting in. Covers all subjects. Price 50c. AMERICAN POULTRY JOURNAL PUB. CO., 542 South Dearborn Street Chicago, Illinois

We look upon this order as a very grave mistake and a great injustice to thousands of loyal, patriotic poultrymen. We believe it will defeat its own stated purpose, and that, instead of adding even a very few eggs to the National supply, it will discourage producers and speedily bring about a real egg famine. The rule does not place any restraint upon the sale of fowls for layers or for breeding purposes, but it does definitely prohibit the sale of fowls—hens or pullets—to be killed, and forbids the sale of fresh-killed poultry except cockerels and cocks. A very severe penalty is attached, but it would seem that this penalty is only for dealers and does not apply to producers of poultry. We do not believe that any Government can stimulate and encourage increased production of poultry

and winter, he now has many overfat birds about to stop laying and some ready to break down from excess of internal fat. As every practical poultryman knows, such birds must be marketed promptly to avoid loss. All such birds stop laying, they will not again begin laying in all probability, at least not for 60 days or more, and it is more likely that they will begin a gradual wasting process or die quickly from effect of excess of internal fat. Many actually have fatty degeneration of heart and liver and are certain to become a dead loss and waste if not marketed when "ripe for market." This excessively fat condition in no wise injures them for food purposes, in fact it makes them more desirable if marketed at the right time, but it does unfit them for use as breeders, lay-



First prize White Orpington cockerel at Indianapolis, Ind., February, 1918. Owned by Wm. N. Otto, 4815 Central, Indianapolis, Ind.

try and eggs by such drastic interference with the poultryman's normal method of doing business.

On the morning when this order appeared in the newspapers our telephone began to ring very early and many were the complaints we listened to from poultrymen about this "latest outrage." One man said he should at once stop all hatching operations and prepare to close out his business. Another most loyal and patriotic poultryman, who has a big plant and has been running it at capacity in spite of difficulties and the fact that it was not paying expenses, told us that he had been averaging to pay \$500 a month for grain. He had been looking forward to this spring season to help him to make good on his fall and winter losses. Having forced his layers for egg production thru late summer, fall,

ers or even as broody hens. Should they by any chance live thru until warm weather they would then "go to pieces" with the first hot wave—a loss of the carcass as food, and a waste of the high-priced grain fed to keep them alive while non-productive. This poultryman who is so loyally "carrying on" and paying such heavy expenses told us that this Food Administration edict means a loss of from \$50 to \$100 a week to him for the ten weeks it will be in force, or until after May 1. That it will not give the increase of an egg in the output of his plant, but that it easily may mean a dead loss to him of over \$1,000 in feed wasted and lost sale of fat hens and pullets that are thru laying and "ripe for market." There are many, many poultrymen in the same unfortunate position. We shall lose heavily ourself, for it means loss of

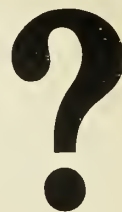
all the best live poultry trade of the season—the sales of fat hens for the Jewish holiday trade. It also means the loss of all regular sales of dressed fowl at a season when the fowls should be sold and when we need the money to devote to the hatching and rearing of a new flock. Several market poultrymen have told us that “This latest outrage settles it for me, I am thru, will not raise a chick this year.” And these men, who have stuck to the job all thru the difficult times, since we entered the war, are quitting food production, where they are sadly needed, and seeking easier work where they can have an eight-hour day and good pay.

It is reported that the Food Administration expects this order to result in the saving of at least five million hens and pullets for egg production and that by May 1 these hens will yield at least 30 eggs each to be put into storage at a “reasonable” figure. There never was a greater fallacy. The actual temporary saving of eggs will be negligible, there will not be enough eggs saved to pay for one-quarter of the feeding grain wasted, and the actual loss to the Nation, in both meat and eggs, will be so great that it will take several years to recover from this most unwise and unwarranted interference with the normal conduct of the business of poultry production.

The immediate result of the advance news that the order was about to be issued—it was first made known in Mr. Priebe's letter of February 2 to the New York live poultry dealers and was later denied as late as February 10th—was the greatest rush to sell off both large and small farm flocks and poultry plant surplus that we have ever known. In our county alone thousands of fowls and pullets were thrown on the market and the local live poultry price dropped in consequence from 32 cents to 28 and 26 cents a pound. There were many poultry keepers who felt that if they were to be forced to keep their fowls until after May 1, whether the birds were productive or not, that they would get out of the business at once “while the getting was good,” and not risk being forced to feed non-productive fowls for ten weeks and then be compelled to accept half of the February prices. The announcement of the fixing of maximum prices on poultry and poultry produce also had a discouraging effect and tended to make people lessen the size of their flocks or get rid of their fowls altogether.

Those who like eggs for breakfast and who need eggs to supply the family, will be wise to secure a flock of layers and to rear a back-lot flock of chickens this season. This latest error in judgment of the Food Administration is almost cer-

Why Keep Hens Why Not Let Hens Keep You



The average hen loafs two-thirds of the time. This lack of egg producing efficiency takes all your profit.

What You Want Is Results

In these days of high costs you can't afford to take chances with anything but the proven proposition. Your needs are

“The Maples” De Luxe Strain Barred Plymouth Rocks

This blue blood combines standard qualities, the heaviest egg production, and with its insurance of success you may go to the limit with such breeding for it will make good for you.

EGGS

\$10.00 per Setting Four Settings, \$33.00 100 Eggs, \$60.00

“The Maples” Poultry Yards
Concord Junction Massachusetts

LEGHORNS—BARRON—WYANDOTTES

The stock on this farm is in the habit of paying its way, even when feed prices are more than double. A customer at McKeesport, Pa., wrote us that five pullets hatched from our eggs laid a total of 105 eggs in the month of January. We have a fine lot of cockerels, cocks, hens and pullets; prices very reasonable. We have bred straight English Barrons for five years and among 50 imported birds have many records over 260, including two 282 egg record hens, also many of their sons and daughters. For early delivery we offer attractive prices on hatching eggs from pedigreed pens only.

THE BARRON FARM R. D. AKRON, OHIO

Business-Bred Poultry Will Win!

252 Eggs
11 Mos.
American

Unprofitable poultry will not stand the test. Stock of proven ability will excel. Make a Quality start! Buy Shorewood Buff Leghorns and Rhode Island Whites. They have consistently proven their Winter Laying ability under official test. We own the birds which have made the Highest Official Egg Records to date in their varieties. Shorewood Poultry—stock, eggs or chicks—will help you be patriotic and make money too.

242 Eggs
10 Mos.
Missouri

Get our 1918 mating list now and order quickly.

Shorewood Farms Co., 82 Shorewood Road, Saugatuck, Michigan



Baby Chicks Hatching Eggs

FROM
TRAP
NESTED
BRED-
TO-LAY

Barred Plymouth Rocks S. C. White Leghorns

Acknowledged as the World's Best Layers

REMEMBER! Your year's work depends on the kind of stock you buy. The high prices of feed have made it necessary to feed only birds that will really lay eggs. Therefore, buy eggs and chicks from hens which have proven their laying qualities by the trapnest.

Hatching Eggs.....\$ 8.00 per 100 and up | A fine bunch of large, husky cockerels for sale at \$3.50 and up.
Baby Chicks..... 16.00 per 100 and up | Write for catalogue.

NORMAN'S POULTRY PLANT AMOS G. NORMAN Dept. 10, CHATSWORTH, ILL., U. S. A.

S. C. REDS

At Boston I won 4th old pen and 6th young pen.

At Utica, N. Y., 1st cock, 1st young pen, 3rd and 4th pullet, 3rd and 4th hen, 3rd cockerel.

At Troy, N. Y., 1st cock, 1st hen, 1st cockerel, 1st pullet.

Show Birds, Breeders, Eggs for Hatching

Prices are reasonable and quality guaranteed. Write me your wants.

J. H. BATES, 305 Broadway, Watervliet, N. Y.

Spring and Baby Chicks!

"One and Inseparable—Now and Forever"
Baby Chicks "from the egg up" feature March issue of



The Poultry Item

How to select hatching eggs; run an incubator; feed, brood Baby Chicks. In fact, Poultry Item tells all you need to know about the care of poultry and how to get \$\$\$\$\$ even from a small backyard. One Item reader made \$100 profit last year, also solved the meat problem. He told how in January issue. We have a copy for you, 6 months, 25c; 1 year, 50c; 3 years, \$1. Subscribe now and raise food for yourself and Uncle Sam. If it's plain, practical help you need, to make every peep count, subscribe for

THE POULTRY ITEM, Box A, Sellersville, Pa.

Where the Rooster Crows the Item Goes!

Make Money in Your Spare Time

We have a proposition requiring neither capital nor selling experience by which you can make from \$25 to \$200 IN YOUR SPARE TIME. Write today for full details of Blue Hen Agency Proposition. Good territory open in every county in U. S.

WATSON MFG. CO.
2705 Ann St., Lancaster, Pa.
Dept. 2705 1534 Masonic Temple Chicago, Ill.

Don't Feed Green Food!

Do away with the bother by using

Succulenta Tablets

They are better, cheaper and more relished by all fowl. Simply dissolve one tablet in one quart of drinking water. Succulenta Tablets are not a drug nor a remedy, but a food—wholesome and harmless. They make chicks grow.

A FULL EGG BASKET IS ASSURED
100 large tablets by mail, \$0.50
250 " " " " " 1.00
500 " " " " " 1.75
1000 " " " " " 3.00

Your Money Back if Not Satisfied



Write for particulars, giving your feed dealer's name.

SUCCULENTA CO., Box 405-1, NEWARK, N. J.

HIGHEST SCORE EVER WON

100 Envelopes, 3 7/8x6 1/2 inches, an extra strong, thick, smooth, slick, white writing face, and 100 Letterheads, 8 1/2x11 inches, heavy, hard, smooth, slick, pure white writing paper, all artistically printed and illustrated with latest new Standard cuts of your breed for only \$1.00. Express charges paid by me. Better printing for the price was never done. No order less than \$1.00 filled. Name your Express office. Cards, tags and egg labels same price as above.

Address, J. R. HUDSON, Hardin Springs, Ky. We have sav samples of Mr. Hudson's printing. It is very nice; he is perfectly honest.—EDITOR.

Thoroughbred Games

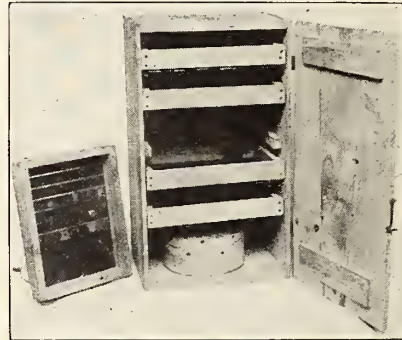
the finest eating fowl; the best fighters. We have them in Black Reds, Brown Reds, Pyles, Duck Wings, Hennies and White Hackles. Eggs and Stock for sale. Send stamp for circular.

WILDWOOD FARM
Sayville, Suffolk Co., New York



Mention the American Poultry Journal when writing to advertisers.

tain to create the worst poultry and egg famine which has ever been known. The price fixing is bad enough and will not encourage production, but this attempt to compel people to keep and feed their fowls, without taking into consideration that "slacker hens" and overfat hens and pullets should be promptly sold as a measure of saving and economy, as well as a source of income to a sorely har-



The Putnam Home-made Oat Sprouter and Seed Tester. Designed by I. Putnam, Route 305, Elmira, N. Y.

rated producer, this most unwise interference with the sane and sensible management of laying flocks, certainly oversteps the limit.

We hope that the Food Administration, and the Department of Agriculture, will see the great mistake which has been made and withdraw the order as soon as possible, before more harm is done to the poultry industry and to loyal, patriotic poultrymen.

WINNINGS OF A. P. J. ADVERTISERS

This column is open to all American Poultry Journal display advertisers and is compiled from information furnished by the advertiser. Complete winnings of all exhibitors at the larger poultry shows as New York, Chicago, Boston, etc., are published in the issue following the show dates, together with a report of the show by an American Poultry Journal representative.

Leigh Bickett, R. R. 9, Xenia, Ohio, reports the following winnings by his pullet-bred line of Barred Rocks: Dayton, Ohio, December, 1917, 1-2-3 hen, 1 pullet, 2-3 pullet-bred cock; special best Plymouth Rock in show. Columbus, Ohio, January, 1918, 1-3 hen, 2 pullet-mated pen; special best display females. Springfield, Ohio, January, 1918, 1-4-5 hen, 3 pullet, 1 pullet-mated pen.

Louis H. Perry, Clay, N. Y., reports the following winnings on Rose Comb White Leghorns: At Chicago Coliseum, December, 1917, 1-5 ckl, 2 pl. At Vermont State Show, January, 1918, 1 ckl, 1 pl.

H. V. Tormohlen, Portland, Ind., Everlay strain of S. C. Brown Leghorns won at Madison Square Garden Show: 1-2-5 cock, 2 hen, 1-2-3-4-5 ckl, 3-4 pl, 1-5 pen; best display.

J. H. Bates, 305 Broadway, Watervliet, N. Y., reports the following winnings on S. C. R. I. Reds: At Boston, 4 old pen and 6 young pen. At Utica, N. Y., 1 cock, 1 young pen, 3-4 pullet, 3-4 hen, 3 ckl. At Troy, N. Y., 1 cock, 1 hen, 1 ckl, 1 pullet.

F. M. Gensch, Omro, Wis., has been elected secretary-treasurer of the American White Orpington Club in place of E. S. Aldrich, who resigned. Mr. Gensch will be pleased to hear from all those who are interested in White Orpingtons.

Attention—Breeders of Speckled Sussex.

At the annual meeting of The Sussex Club of America, at Cleveland, January 10, 1918, the matter of the proper color description of Speckled Sussex was discussed. Communications were read from leading breeders of these birds in the United States, Canada and England, and it was voted unanimously to recommend to the revision committee of the Standard of Perfection to substitute in the description of color of these birds, the words "dark mahogany" for the words "reddish brown" wherever the latter words appear, and to substitute the words "slate or slate and red" for the words "slate shading into white" wherever the latter words appear in the description of undercolor.—A. C. Williams, President.

For the Information of Poultry Secretaries.

The tenth annual exhibition of the Great Mid-West Poultry and Pet Stock Association will be held in the Coliseum Building, Chicago, December 3-4-5-6-7-8, 1918. Like the show of 1917, it will be held on the same dates as the International Stock Show at the Stock Yards. A complete list of judges has not been made up to date, but this information will be furnished later and this notice is published in order that local associations thruout the Mid-West may avoid the dates. By looking at the calendar, you will note that the show opens on Tuesday and closes Sunday night.—Theo. Hewes, Sec'y, Indianapolis, Ind.

Milwaukee Dates for 1919.

The fourth annual exhibition of the Auditorium Poultry Show will be held in Milwaukee, January 1-2-3-4-5, 1919. The following judges have been selected—others may be added later: Geo. Hackett, W. H. Laabs, Jas. A. Daley, Geo. Wells and Geo. E. Greenwood. The Milwaukee Show will be considered as the big Wisconsin exhibition and a number of the specialty clubs will hold their state branch meetings in connection with the fourth annual exhibition. Several new members have been added to this association and it is the intention to have one stockholder in each congressional district in the state. Theo. Hewes will hold the controlling interest in the stock and the show will be under his management, as in the past.

The Chicago Pet Stock Club, with a membership which now amounts to 140, will be known hereafter as the Chicago Breeders' and Fanciers' Association, affiliated with the National Breeders' and Fanciers' Association, an association for the betterment and improvement of rabbits, cavies and small fur-bearing animals. At the next meeting, which will be held at the Fort Dearborn Hotel, on Saturday, March 16, 8 P. M., an expert rabbit dresser will demonstrate his skill. Anyone who is interested will be welcomed upon presenting this notice.

Thermo Non-Freezing

Automatic Sanitary Drinking Fountain

Keeps the water warm in winter—cool in summer. Works like a thermos bottle. It is absolutely sanitary, insuring a liberal supply of pure drinking water at all seasons. The best fountain on the market.

Write for descriptive booklet and prices.

THERMO DAIRY CAN CO.
36 STATE STREET ALBANY, N. Y.

S. C. BLACK ORPINGTONS GLENCO STRAIN

Winners at Chicago Coliseum, Kansas City Omaha and Des Moines. Write for Circular

DR. G. H. HUMPHREY

WOODBINE

IOWA

POULTRY YARD TREE PLANTING.

By F. A. KUHN, Williamsville, N. Y.

THE WRITER, having had very good results in planting trees in his poultry yard, will explain how he did it. Before going into details a few words about shade will not go amiss.

Shade is beneficial and should be provided for the hens. That shade is necessary to good poultry raising has been proved. Hens that have no other shade than what they can get by going into the hen house soon become lazy. We always find the hens that have an orchard or a shady yard to roam around in, very active. They are active because they can move around in comfort. Young chicks also need shade. You will find the birds which are given a comfortable house in winter, a shady yard in summer and wholesome food and fresh water all year round are the birds with a good record.

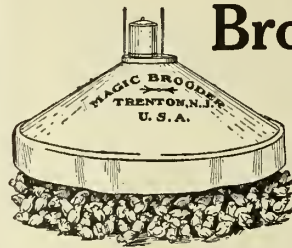
Poultry raising and fruit growing go well together. For that reason the writer planted apple trees. After four years' growth they bore their first fruit. As labor was scarce and having to do all the work alone, the quickest and easiest method of tree planting was used. Bore holes were made just where the trees were to be planted. These holes were made three feet deep and about two inches in diameter.

Into each hole was placed a charge of half a stick of 20 percent dynamite, well tamped. After the blasting the holes were dug and the top soil was kept separate from the subsoil. In planting a tree the top soil was used under and around the roots. The subsoil was put in last. All the soil was well packed down up to within six inches from the top. To prevent the hens from digging or scratching out this loose earth some stones were placed at the base of the tree.

The blasting of these tree holes improved the drainage where these trees were planted. We all know the conditions that prevail in the poultry yard when it rains. Some water and much mud. After the sun shone on it for a week or so we find a very hard soil. Unless the drainage is improved a tree would have a hard time making growth. As the blasting opened up the subsoil and made it porous, it also created a moisture reserve from which the trees drew at the time of driest weather. The tree extended its roots freely, having a good root bed in that topsoil, and later on in the blasted subsoil. The writer found out that with a little care at planting time, very good results can be obtained.

Doing your bit for Uncle Sam? He wants you to raise more poultry. Get that incubator ready and start a hatch to produce early chicks. Keep the incubators going, your should be able to sell all the chicks you hatch. Grow as many chickens as you can properly care for.

The Hill Colony and Magic Brooders



famous for high grade construction and efficiency. They hold the fire, automatically regulate the heat and are positively gas proof. They brood chicks which will produce a profit.

The brooder is actually the starting point of success in the poultry business. If our brooders do not do all we claim after thirty days' trial we will cheerfully refund the money and pay freight both ways.

Send for free catalogue describing both the Hill Colony and Magic brooders. It also shows plans how to build colony and laying houses together with other appliances. Agents Wanted.

United Brooder Co., 348 Pennington Avenue Trenton, N. J.

EASY WAY TO GET EGGS

Feed "OCULUM," the Egg Maker, and Double Profits

Experts like Hawkins and Fishel call "OCULUM" a "Miracle Worker."

I fed "OCULUM" to 48 Leghorns 24 days; eggs jumped from 8 to 42 a day. H. C. MILLER, Akron, O., Judge A. P. A.

"OCULUM" doubled my egg yield in 23 days.—C. E. CORNELL, Tacoma, Wash.

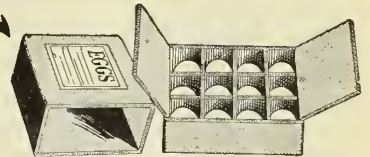
"Oculum" makes Eggs Fertile and Chicks Strong

Bottles, 50c and \$1; Pint \$2. Money back if not satisfactory. SAMPLE, 10c—240 FEEDS Booklet "All About 'OCULUM'" FREE. Dealers Handle It. This Journal O. K.'s Us.

"OCULUM" CO. - Box B - SALEM, VA.

Safety

Don't subject yourself to the annoyances arising from the use of improper shipping boxes and other supplies. Get acquainted with our big poultry supply house. We handle the very best and also give prompt service in



Improved Parcel Post Egg Boxes New Egg Cases
New Flats and Fillers Oat Sprouters Leg Bands Poultry Remedies Etc., Etc.
At the Lowest Prices Write for Our Free Catalog

H. K. BRUNNER, Dept. M, 45 Harrison St., New York City, N. Y.



Houstonia Champion

RED SUSSEX LIGHT SUSSEX

"A Truly All-Purpose Fowl, Utility Plus Beauty"
"The Colder the Day the Better They Lay"

EGGS EGGS EGGS EGGS EGGS
For hatching from—Winners at America's Greatest Exhibitions...\$10.00 per 15
Leaders at American Egg Laying Contest.... 3.00 per 15

We cannot hope to meet the entire demand on our matings this season and urge you to book your order at once. Descriptive price list now ready.

Houstonia Poultry Farm Dept. A South Charleston, Ohio



Thousands of Baby Chicks die every year from White Diarrhoea. You should protect yourself against this dreaded disease by feeding

"CORNELL"

BRAND BUTTERMILK CHICK STARTER

It should be fed from the time the chicks are hatched until they are three weeks old. Send your dealer's name or write for price list.

BLAMBERG BROTHERS, Inc.

WHOLESALE SEEDS AND FEEDS

107 COMMERCE STREET

BALTIMORE, MD.

HIGHEST PEDIGREE LAYERS IN THE WORLD

NOTE—I have absolutely the greatest collection of official high record hens and pens of any farm in America. I only do pedigree work and you are assured that you get what you buy. If you want contest winners, profitable commercial poultry and cockerels that improve, come to me. **MY RECORDS**—Wyandottes, 282, 274, 272, 253, 252. Leghorns, "Lady Storr's" 287; others, 284 to 252. Reds, 273, 247, 243. Buff Rocks, 280, 272, 265, 263—and all official.

MORRIS FARM

R. 4

BRIDGEPORT, CONN.

WE HAVE THE GREATEST NUMBER OF OFFICIAL 200 EGG HENS OF ANY FARM IN AMERICA

Makes Chicks Grow Vigorously



Feed Sprouted Grain Grown in a

COLLINS SPROUTER

It cuts the feed bill, insures healthy chicks, provides fresh green feed quickly. Satisfactory, safe and sanitary. All galvanized steel, knockdown, fireless.

8 pans, 11x15 inches Popular Size.... \$4

5 pans, 11x15 inches Back-yard Size... \$3

8 pans, 11x32 inches Big Breeders.... \$8

Delivery charges paid. West of Miss. River add 50c; West of Rockies add \$1.

Collins Exerciser and Feeder

No more wasting of high-priced grain; no lazy, overfat hens, if you own and use a Collins labor-reducing, time-saving Exerciser and Feeder. Eliminates waste; reduces feed cost; rat and bird proof. Makes hens lay more eggs of higher fertility. Cut a five inch hole in the bottom of an old wooden or metal pail; attach feeder; the cup forms a funnel, and you have a complete, practical feeder. Only 50c when ordered with Sprouter. Separately, add 10c for parcels post.



50c

Order a Sprouter or Exerciser and Feeder, or both; use 10 days. If not all you expected, return and I will refund money. Circulars on request.

W. H. Collins, 20G-Harrison St., New York

LAKENVELDERS



The best layers and the most beautiful fowl in the world.

Eggs and Stock for sale

Send stamp for circular

Ralph C. Greene Sayville New York Suffolk County

STEVENS "EVERGREEN" OATS SPROUTER

ALL METAL PANS LIFT OUT

8 Pans 11x15 inches, for only..... \$3.75

5 Pans 11x15 inches, for only..... 3.00

8 Pans 11x30 inches, for only..... 7.50

Order direct from this advertisement or send for circular Satisfaction Guaranteed.

H. A. STEVENS, 146 E. Main St., BATAVIA, ILL.

Illinois Poultrymen Organize for Increased Production.

THE PRESIDENT of the American Poultry Association has requested a statement of the methods being pursued in Illinois in the war emergency campaign to increase poultry and egg production and the co-operation that is being extended by the Illinois State Association of the American Poultry Association.

The wheels of progress began to move lively at the recent annual meeting of the Association when the following resolution was presented by O. L. McCord, and adopted unanimously:

The Illinois State Poultry Association in convention assembled, January 20, 1918, at Peoria, Illinois, unanimously approves the poultry work being done by the Animal Husbandry Division of the U. S. Department of Agriculture and pledges its support and co-operation in the work and calls on its members individually and the poultrymen in Illinois to help, as they may be requested, the representative of the U. S. Department of Agriculture in poultry work for Illinois, Frank L. Platt, that the poultry and egg production of Illinois may show the necessary increase in both quantity and quality.

We bespeak the effective help of the poultrymen of the state even to the point of personal sacrifice of time and effort.

The next thing was to carry out the spirit of the resolution. The Executive Committee did this by listing a splendid lot of vice-presidents. These vice-presidents are scattered thru the twenty-five congressional districts of the state with the exception of districts 1 to 10, which includes Chicago, and D. E. Hale is local leader for this city. The vice-presidents of the Illinois Poultry Association become our local leaders and they will be asked to appoint additional local or community leaders. They will be able to pick the best men in their respective districts because they know their locality best.

Thus, the Illinois Poultry Association has developed a skeleton organization that will automatically enlarge itself into a large organization of county workers. These men and women, being themselves poultrymen, will freely carry the advice and sound judgment, bulletins and posters of the United States Department of Agriculture to every nook and corner of the state. That is what

White Plymouth Rocks



Champion Cockerel of Tri-State Fair, Memphis

Tri-State Fair, Memphis, 1917, won 1-2 cock, 1-2-5 hen, 1-3 cockerel, 1-4 pullet, 1-2 old pen, 1-2 young pen. Grand Champion Cockerel of show. \$50.00 Sweepstakes

over all varieties. \$25.00 Southern Sweepstakes. Ex-President's Silver Cup best pen. At Arkansas State Fair, Ft. Smith, 1917, 1-3 cock, 1-2 cockerel, 2-3-4 hen, 1-2-3-4 pullet, 1 old pen and 1 young pen. Silver Cup, Champion Pen, Cup, best pen American class. At Greater Chicago Show, 1918, 3rd old pen in a very strong class. Eggs and Stock for Sale. Write us.

COUNTY AVENUE POULTRY FARM Mrs. Ira Johnston, Prop. Box A Texarkana, Ark.

103 DEGREE INCUBATOR

Contains the only real improvement that has been made on such machines in the past ten years. With its patented heat control there is no regulating—no roasting of eggs—no chilling them. You will get big hatches of strong, healthy chicks that will live.

Write for full and complete description of this Incubator that maintains an absolute even temperature day and night without attention—without regulating.

103 Degree Incubator Co. 10 East Street Crown Point, Indiana

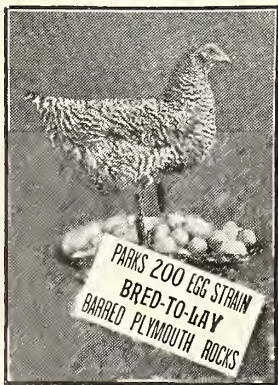
Artistic Homes

a 1000-page plan book, \$1

Send post-paid. All home-loving home-building people need it in their library for style, guide and economy in building, 2000 plans and designs.

HERBERT C. CHIVERS, ARCHITECT, ST. LOUIS

Over the Top They Went in January



Winning the Blue on Eggs, Utility Pens and Exhibition Stock at Johnstown, Pa., State Show, Harrisburg, National Show, Washington, D. C. and Rochester, N. Y.

EGGS

Scientifically Packed

CHICKS

That Live

FOUNDATION STOCK

Circular Free

That's why they are conceded to be America's Oldest Laying Strain. They easily out-layed the 2600 birds in the five Missouri Laying Contests, officially making them America's Greatest Layers, as these contests were made up of the best layers from 37 states and eight foreign countries. Also Winners of the Three Silver Cups for Heaviest Winter Laying—December, January and February. After all it's really the winter laying that counts. The sparrows lay in summer. You've read our advertisements longer than any other bred-to-lay breeders. That hundreds with broader laying claims than ours should come and go seems strange. Yes, Parks' Rocks are now being fed by the third generation of Joes. High normal laying is our stronghold. A flock of 128 averaged 208 eggs in a year. In phenomenal laying they have records up to 290 eggs and the greatest sworn continuous laying record of 148 eggs in 148 days was made by a Parks' Rock. Heavy laying is bred in the strain and the name Joe in the family.

Large copyrighted catalog tells all about their breeding, laying contest winnings and customers sayings since 1889. With general utility comments and gossip. It's a dime.

J. W. PARKS

BOX J, ALTOONA, PA.

is meant by extension work, i.e., to extend the work over an entire area.

Of course, it is especially important that poultry and egg production should be maintained in Illinois. The farmers of this state are selling about \$24,000,000 worth of poultry and eggs a year—\$2,000,000 a month. When the hungry faces of the Allies look toward America, they look across the Alleghenies to the fertile fields of the Mississippi Valley. Illinois is organizing to do more than her share—to do her best.

FRANK L. PLATT,

Extension Poultry Husbandman for Illinois, U. S. Department of Agriculture.

January 31, 1918.

Poultry Husbandry in Public Schools.

FOR A LONG time the need of practical training along the lines of agriculture and shop work in our common and graded schools has been felt. This need has been, and is being supplied in the schools all over the country. One of the most important of vocational studies—that of poultry husbandry—has been almost entirely overlooked.

The Emerson School at Gary, Indiana, has a poultry plant and the work is looked upon with favor by the many visitors who come to study the Gary schools, and by all of the pupils (both grade and high school students) who participate in the work.

The equipment consists of poultry houses, brooder, incubator and egg storage rooms, coops, poultry yards, colony house, covered pens and runways for pheasants and pigeons, artificial ponds for ducks, etc., and, in fact, every commodity necessary to carry on the work in a practical and scientific way. Pure-bred Single Comb White Leghorns, Anconas, Langshans, Light Brahmans, Campines and several breeds of bantams, all of which came from the leading poultry farms, are found in the school yards.

The actual work of feeding, watering, cleaning dropping boards, dressing chickens for market, testing eggs, running incubators and artificial brooders, is the type of work that the boys and girls do each day. Besides this, they have classroom instruction, where the vital questions of poultry raising are studied and discussed.

Our desire in carrying on this work is to interest and at the same time give the boys and girls instruction and a definite knowledge as to how to really raise and care for poultry satisfactorily and



Another Great Victory

At the Greater Chicago Poultry Show, 1918, Wilburtha's S. C. White Leghorns won 1st, 2nd and 4th cocks; 1st and 4th hens; 4th, 6th and 7th cockerels; 2nd pullet; 1st old pen; 1st young pen, and the special prize for the best exhibit in the entire show. This remarkable showing, following our sensational victory at Madison Square Garden, proves conclusively the supremacy of Wilburtha Farms in the show room.

Our birds are bred just as carefully for the useful qualities as for exhibit. We have pens of all our breeds in the egg-laying contests this year. They are making commendable records as heavy layers. One customer writes that a R. I. Red pullet purchased from us laid 27 eggs in February, 1917, and was leading hen that month at one of the National egg laying contests.

Our best eggs are \$10.00 per setting and more than worth it. Write for our 1918 Mating List, which gives complete information.



**White Plymouth Rocks
S. C. White Leghorns
S. C. Rhode Island Reds**



SPECIAL NOTICE: We have sold all our Col. Wyandottes to J. Walter Garvey, Thayer, Ill., to whom all inquiries for this breed should be addressed.

Chas. J. Fisk
Owner
M. L. Chapman
Gen. Mgr.

Wilburtha
POULTRY FARMS

27 River Road
Trenton Junction
New Jersey

SHIP YOUR

EGGS WHITE OR BROWN EGGS

net, no commission; returns day of arrival.

All reasonable drafts honored, to

ALEX MERSEL

191 Duane St., New York

References
Atlantic National Bank
Chatham & Phoenix National Bank
All Com. Agencies

United States Food Administration
License No. G-07408



"Superior Strain" Columbian Wyandottes

First Prize Winners, Madison Sq. Garden, '18, Chicago Coliseum, '17-'18

My recent winnings at these largest shows in America are conclusive proof that my strain has everything desired in this beautiful breed. I have also improved the egg production and have individual records well over the 200 mark. As my strains have been bred that way for years, it stands to reason that this quality is inherited by the progeny. My pens are mated and contain the best birds in the United States.

STOCK AND EGGS FOR HATCHING

from the finest matings in the country are now offered to those desiring fowls that are "profit producers." I have just added the entire flock of Columbian Wyandottes of the Wilburtha Farms, Trenton Junction, N. J. All their winners are in my yards. This magnificent strain added to my own gives me the largest and best flock of Columbian Wyandottes in the country.

The Quality is Exceptionally Good. The Prices I Ask Extremely Reasonable.
Send for my free catalog and mating list giving full information.

J. W. GARVEY

Box A

THAYER, ILLINOIS

Potter Redybilt Poultry Fixtures

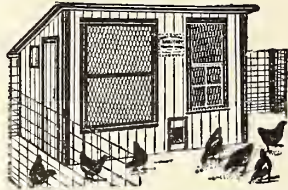
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A \$6.60 Potter Outfit
6-foot, 3-perch, 10-nest Hennerly
Outfit for 36 hens. Same style made in 12 sizes.

Roosts, Nests, etc. Ready to Use For Less Than Cost of Making

That's just what we mean—the famous Potter Redybilt Hennerly Outfits of Roosts, Nests, Coops, etc., that can be set up in a few minutes, at less than it would cost you to buy the material and make them—saving the time, trouble and uncertainty.



A \$39.50 Potter House Portable, open front, fresh air scratch shed house, equipped with 6-ft. 3-perch Potter Hennerly Outfit for 30 hens.

POTTER POULTRY HOUSES AND FIXTURES

have been used and recommended for over 16 years by thousands of poultry keepers, all over America, who know how important it is to have the right kind of equipment. A clean, sanitary house, nests and roosts mean healthy hens and lots of eggs. Do your part and the hens will do their part. **Get the Potter Book**—it shows over 100 pictures of portable houses, coops, hennerly outfits, etc. Mailed free for two red stamps to cover postage.

POTTER & CO. 39 FOREST AVENUE
DOWNERS GROVE, ILL.

profitably. We think that the boys and girls, especially, should feel the need of food conservation at this time, and that they should really know that they can be of service to the Government by producing meat and eggs in their own back yards.

MAURICE B. SHIRELY,
Director of Animal Husbandry.
Gary, Ind.

TURN CASH INTO GUN FIRE.

By FRANK A. VANDERLIP.

WE FOUGHT and won the Spanish War with 150,000 soldiers and a \$200,000,000 bond issue. In men under arms we now have ten times that number. We issued ten times that amount of bonds in the first Liberty Loan. We are proposing to spend and loan to the Allies in the first fiscal year of the war \$19,000,000,000. From now until the end of this fiscal year the treasury anticipates needing \$300,000,000 a week—that is, the treasury has got to fight financially a Spanish War every four days. That indicates a money measure of the size of this work, but that is not the real measure. We have just seen that one might have plenty of money, but an empty coal bin. In just the same way the Government can have plenty of money, but an unequipped army. This army cannot be equipped as modern warfare demands if the man power of the country is at the same time called upon to produce all of our ordinary comforts and luxuries. It is as plain as two and two that all of us must make personal sacrifices, must give up comforts and luxuries, even necessary expenditures that can be postponed if there is to be labor and material enough to equip the army in time for it to fight while it will do some good to have it fight.

In war the only effort that is of any value is that which is ultimately translated into gun fire on the field of battle. The gun fire that will win this war cannot be delivered until all America recognizes individual responsibility, until the whole people join in the effort by giving up things that they can do without, so that the labor that would have been employed in making those things can do work that will ultimately result in gun fire. The Government has offered the opportunity to translate at once every one's personal patriotism into the sort of help that will win the war. Forego buying something that is unnecessary; loan the money you would have used to the Government by buying \$5 war savings certificates. You will thus have released labor, you will have given credit to the Government, you will have acquired the best security in the world, a United States Government bond.

Uncle Sam says: "Raise more poultry on farms and in back yards." Are you doing your bit? Everybody must do his share to win the war. If you cannot join the army or the navy, keep a war flock and produce meat and eggs to help win the war. If you only produce a part of your own food, it will help in saving other food for National use. Do your bit.

Better buy that incubator now. You will need it soon. Broody hens are scarce. To make sure of early chicks, get an incubator.



A Flock of Pullets from Seven to Nine Months Old

There are great laying breeds and varieties, but most of the "egg machines" are worthless for the table. There are fine table birds, but many of these are poor layers. There is no need of more simple egg machines—the world is full of them. There is no call for table birds that will not lay—they are legion. But there is room for a splendid table fowl that is a prolific layer of

Large White Eggs and the WHITE HOUDANS

fulfill these requirements. These beautiful birds are destined to fill a big place in the poultry world. They are now in the Standard, with 15/16 Mottled Houdan blood, with all the best Houdan characteristics, combined with pure white plumage and pink-white skin and improvement in table qualities and egg production. A limited number of eggs is offered, to increase the interest in the variety. But few can be spared this season and those who secure a start with this magnificent fowl now will be fortunate. Eggs are \$1 each, with full guarantee as to fertility and quality of stock. Correspondence is invited and circular will be mailed.

FORSGATE FARMS, F. Donald Baerman, Manager. DUNELLEN, NEW JERSEY

No Better Buff Orpington Matings

IOWAIN STRAIN

in the Country

IOWAIN STRAIN

In my pens I have 1st cock which won color special at Greater Chicago Show, 1918; 2nd cock, special for shape, 1918; sweepstakes young pen, Iowa National Buff Orpington Meet, Davenport, Ia., 1918; 1st cock, Iowa State Show, 1917, 1st and 2nd young pen; 2nd young pen, Greater Chicago Show, 1918.

EGGS FOR HATCHING

from these grand birds. Remember, when you buy eggs of me you are not buying a "pig in a poke," but the production of birds that have been O. K.'d by the judge.

Send for Mating List today.

F. S. JORDAN, Springville, Iowa

GOLD COIN BUTTERCUPS

CHICAGO COLISEUM WINNERS, 1917—1st pullet, 3d, 4th and 5th cockerel. Greater Chicago Show, 1918—1st pullet, 1st and 3d cockerel, best shape and color male and female, also champion male and female. I have some fine cockerels for sale. Write your needs. Hatching Eggs. Baby Chicks. I will have eggs and chicks from pens containing these prize winners. Do not delay ordering.

O. B. DISENROTH

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URBAN FARMS PINE RIDGE BUFFALO, N. Y.

Stock and Eggs for sale from our prize-winning Black Langshans, White Rocks, Anconas and Barred Rocks of Ontario Agricultural College laying strain. Eggs only of Tom Barron's White Wyandottes and Leghorns, Pure; also Klondykes, Naked Necks, Silkies, Black Tail White Japanese and Mille-Fleur Bantams. No baby chicks. Mating List now ready.

American Laying Contest Winners! Brookside Wh. Wyandottes

Our pen No. 74 won first prize for highest egg production in the American Laying Contest at Leavenworth, Kan., which closed Oct. 31. They produced 1000 eggs, an average of 200 eggs per hen. Three of the hens scored 94, 95% and 92%, showing that they combine beauty and utility. Our pen No. 43 in present contest has lead all varieties for first three months. Hatching Eggs. No baby chick. Mating list free. If you want birds that pay, send in your order.

Brookside Farm G. W. SCHOTTMAN, Prop. Montrose, Illinois

FROM THE PACIFIC COAST

THE ART OF BROODING CHICKS.

By CHARLES WEEKS, Palo Alto, Cal.

PRODUCING high grade poultry and eggs is fast growing to be a science, and the knowledge of how to apply this science is an art.

A scholarly scientific knowledge of poultry raising does not always make an artist in poultry production. Doing is the art. Science is the accumulated truths that bear upon a subject. All the truths of poultry raising can be com-

mitted to memory and yet this will not make a successful poultryman. We need practice which makes the poultry artist and which is the art of poultry raising.

Each department of poultry keeping has its art. One may be proficient in the feeding and care of laying hens and get a high percentage of eggs with low death rate and yet be a failure in brooding chicks.

Brooding chicks is an art which no careless person will ever learn. Successful brooding depends upon three things being correct to start with. First, that the parent stock of the chick shall have generations of careful breeding for vigor behind it. This parent stock must be in the pink of condition at the time the eggs are to be incubated. This parent stock must be at least two years old with every condition for health.

Second, the incubation of this egg from correct stock must be done exactly right or no brooder on earth will make a good chick from this egg. The temperature should be held as steady as a clock between 102 and 103 degrees. If it runs above this or below, the chick will never be as good as it might be.

Third, the construction of the brooder must give natural comfort to the chick with plenty of fresh air and no dust. Right here is where too many fall down in brooding. A well-bred chick, correctly incubated, placed in a diabolical brooder, is certain failure. True, many good chicks squeeze thru to maturity in spite of the crowded brooder conditions. The brooder season is so short as compared to the success or failure of the balance of the season that one cannot afford to neglect the slightest

detail. Good pullets at the beginning of the laying season is the end in view, and no stone should be left unturned to make them the best possible. You can well afford to put much stress on this short six weeks brooding period, for does not your whole year's profit depend upon the kind of pullets that come from this brooder? How many extra good pullets would it take to pay the hire of an extra man during this short brooding period? The hardest part of the poultryman is to reproduce productive hens in large numbers.

The man who advocates placing a

a thousand little chicks walking over each other trying to find the correct heat, first too hot on inside, then too cold on outside of this circle, and all the clammy, dusty, rotten air drawn over their little backs continually toward the stove, I say that the man who advocates this inferno for baby chicks should be made to pass just one week in this tuberculosis factory and he would never



FIRST PRIZE YONG GOLDEN DUCK
WINNERS AT MANISONS SQUARE, CALIFORNIA, 1918

SWED AND OWNED BY ...

mitted to memory and yet this will not make a successful poultryman. We need practice which makes the poultry artist and which is the art of poultry raising.

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thousand chicks in a low, tight sealed room, with hardly a ray of sunlight, with a stove in the center that squanders heat in every way except in the exact spot where it is most needed, heat in the top of the room until it makes you dizzy, heat going out of the chimney trying to warm up all outdoors, and



FIRST PRIZE COCKEREL AND CHAMPION WHITE LEGHORN MALE
PANAMA-PACIFIC INTERNATIONAL EXPOSITION NOVEMBER 1915
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It is no longer necessary to send East for the best in

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at \$3.50 to \$25, which will please anyone. They win and they lay.

BABY CHICKS \$15.00 per 100
HATCHING EGGS 2.00 per 15
..... 7.50 per 100

Eight-week old pullets in season.

I have in my breeding yards fifteen daughters of 300-egg hens, stock from these birds a matter of correspondence.

If you don't want to order from this ad, write me your wants and send for catalog.

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That's what causes 50% of the chicken losses.

Stop It Quick Just put Conkey's Roup Remedy in the drinking water. At dealers, or sent direct, 30c and 60c. Send 4c for complete book on Poultry Raising.

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Conkey's ROUP REMEDY

Single Comb White Leghorns

WINNERS OF EVERY FIRST PRIZE
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LINE BRED AND TRAP-NESTED

Cock Birds at reasonable prices,
Breeding Cockerels—strong and vigorous.

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Acknowledged by Judges everywhere to have the most uniform standard Leghorn type of any strain in America. Bar none.

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DOWNEY, CALIFORNIA

McCartney Farms S. C. Rhode Island Reds S. C. Black Minorcas

We Breed "Top Notchers." Coliseum Show, Chicago, 1917, won 1st and 4th Cockerel, 1st Hen, 2d and 3d Pullet, 3d and 5th Cock. 1917 won 25 first prizes. Our birds have type, color and vigor. Eggs that will hatch strong, vigorous chicks; chicks and stock for sale. Send for catalogue. It is worth your while.

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 Three row cartons, \$1.00 per 100. \$6.50 per 1,000. \$52.00 per 10,000. Two row cartons, \$1.40 per 100.
 \$9.00 per 1,000. \$70.00 per 10,000. Printed with your name and address at slight additional cost. Catalog gives full particulars.

CHICK SHIPPING BOXES 25 chick size, \$1.90 doz., \$12.50 per 100. 50 chick size, \$2.65 doz., \$18.00 per 100. 100 chick size, \$3.35 doz., \$24.00 per 100. Special prices in 1000 lots or more.

HATCHING EGG BOXES 15 egg size, \$1.50 doz., \$10.00 per 100. 30 egg size, \$2.15 doz., \$14.00 per 100. 50 egg size, \$3.35 doz., \$24.00 per 100. 100 egg size, \$4.25 doz., \$30.00 per 100. Special prices on larger lots.

Market Crates Standard size 2 ft. by 3 ft. 12 inches high. 45c each. \$40.00 per 100. See catalog for other sizes and kinds.

SHIPPING COOPS For Fancy Stock. Lightest and strongest coop on the market. Weighs only 10 lbs. 12 x 24 x 20 in. high, \$4.80 per doz., \$35.00 per 100. 18 x 24 x 20 in. high, \$5.70 per doz., \$42.00 per 100.

Folding Egg Crates 3, 6, 9, 12, 15 and 30 doz. sizes. Also a complete line of market egg cases, fillers and flats at lowest prices. See catalog for prices.

BROOD COOPS Two styles as illustrated. Size 17 x 23 inches. Made of heavy galvanized iron. Price \$2.50 each, 1 doz. \$13.00, 1 doz. \$25.00. Catalog describes Setting Coops, Chick Runways, Colony Coops and all the equipment you need to raise chicks successfully.

Electric Incubators All sizes from 60 to 500 eggs. Also lamp heated incubators from 60 to 2500 egg capacity. We guarantee them to hatch good.

BROODERS All kinds - Fireless, Coal Burning, Oil Burning, Electric. Capacities from 50 to 1000 chicks. Prices \$2.75 up.

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LICE KILLING NEST EGG Place in nests and rid your fowls of lice. 75 cents per dozen.

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Cellulose Leg Bands For Chicks, 10c doz., 50c per 100. For Hens, 15c doz., 75c per 100. Catalog describes 14 kinds of bands.

WATER FOUNTAIN For Chicks Used in connection with an ordinary Mason Jar. Price 15c each, \$1.50 per doz.

Feeding Troughs For Feed, Wet Mash or Water. Three sizes - 12, 18 and 24 inches long. Lowest prices.

FEED HOPPERS We have so many kinds of hoppers and grit and shell boxes that there isn't space to list them here.

HOPPER with Rain Guard For outdoor use. 20 quart capacity. Price \$3.50.

Crockery Fountains Never wear out. Sizes from one quart at 35c to two gallon at 60c.

Thermos Fountains Keep water cool in summer and warm in winter. Three sizes. Catalog gives particulars.

Satisfaction or Money Back

If you are not fully satisfied with any articles you buy from us you can return them at our expense and we will refund your money.

We carry only the best quality goods—the kind we can recommend and guarantee.

We buy in carload lots, sell for cash, and quote lowest prices.

Prompt shipment is one of our features, all orders being filled within 24 hours.

Eighteen years of steadily increasing business assure you careful attention to all orders you send us.

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TRAP NEST (front) Fastens to orange crate or other box. Price 50c each, \$5.50 doz. Wood and metal trap nests—all kinds.

ROOSTING OUTFITS Equip your poultry house with these outfits. Several styles. Also lice proof roosts.

CLOVER CUTTERS Root Cutters, Oat Sprouters. Every modern method of supplying your fowls with green food.

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BONE CUTTERS Fresh cut bone is better and cheaper than meat scrap. One of these cutters will soon pay for itself.

Round CHICK FEEDER A great feed saver as the chicks cannot get into it. Large size, 35c each, \$4.00 per doz. Small size, 20c each, \$2.25 per doz.

AUTOMATIC FEEDERS If you do not have time to feed your birds regularly, you need these feeders. Several sizes and kinds from \$1.65 up.

POULTRY BOOKS We carry a complete line of Poultry Books. Over 50 books listed in catalog. Also Egg Record Cards and Trappert Record Blanks.

POULTRY REMEDIES We handle only the best remedies and guarantee them to give good results or your money back.

DISINFECTANTS and Lice Destroyers Get our prices before you buy. We have several kinds. Our Carbolineum Lice Killer at \$1.35 a gallon will keep mites away an entire year with one application.

live to tell the tale. It will take us too many centuries to make moles and bats out of chicks, so why not give them their natural conditions of sunshine and fresh air and work along the lines of least resistance? Success is always easy along Nature's way. If we work with Nature we cannot make a mistake, for she has been so long at the game. Every time a chick sticks its head from under the brooder it should have pure air free from dust to breathe. It should have heat enough in the brooder to keep the body warm while its head is outside breathing air that had never been in a pair of lungs before. A thousand pairs of lungs in one hermetically sealed room pumping the air over and over again until there is hardly enough oxygen left to keep the fire burning, with only a shaft or two to grudgingly let in a little of all the great ocean of fresh air on the outside—free air, too. If we had to pay for it we would fight for it. Plants and animals need sunlight and fresh air and will not reach their full stature without it. Why are we so slow to learn the value of fresh air in our poultry keeping?

I admit there are many thousand chicks raised by the stove system or rather in spite of it, for from all the thousands and thousands dumped around the stoves many are raised, but of this number how many contract tubercular germs that make them one by one fall by the wayside during their laying career. The loss among laying hens on egg farms is terrific on account of bad ventilation all along the line.

The baby chick needs a high degree of heat during the first week. It should have a brooder with parts as high as 100 degrees in heat down to 90, so that a comfortable temperature can be chosen. The temperature must be high enough so that the chicks will not need to huddle to keep warm. Neither must they be so crowded that they cannot find comfort without too much bunching. Nature never intended that chicks should be raised in large flocks. It is against all reason. Simply a survival of the fittest and these fittest are often ruined for a profitable career. From seventy to one hundred and fifty chicks to each flock is enough. Probably one hundred is a good average. The fewer together the better the results. These should have enough heat so that they will be perfectly comfortable without huddling, and the brooder must be so constructed that they can stick their heads out to the fresh air and still be warm. This brooder should be in an open-front pen which allows the healthful sunlight to warm it up first thing in the early morning so that the chicks can have an early sun bath without having to hang around artificial heat all day. Sunlight, fresh air and no dust and a comfortable hover to rest under and the chick has ideal conditions to grow into a vigorous, productive fowl.

As I sit and write this article on brooding chicks the early morning sunlight is pouring directly into fifty open-front pens eight feet square, warming and cheering the six thousand comfortable chicks which are taking their morning sun bath. I have just been "the rounds" and to see them sporting themselves in fresh air and sunlight with no dust certainly is a cheerful prospect after twelve years of searching after the natural way. And not one of these six thousand chicks will have

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No matter what you may need in the line of poultry supplies we have it. The items listed above are only a few of the several hundred articles that are described in the catalog. Our prices are low, and we guarantee everything you buy to give complete satisfaction. If you order anything that is not just what you want you can return it at our expense and get your money back. We also ship C. O. D. if desired. Send for your copy of the catalog now—you are sure to need some of the articles described.

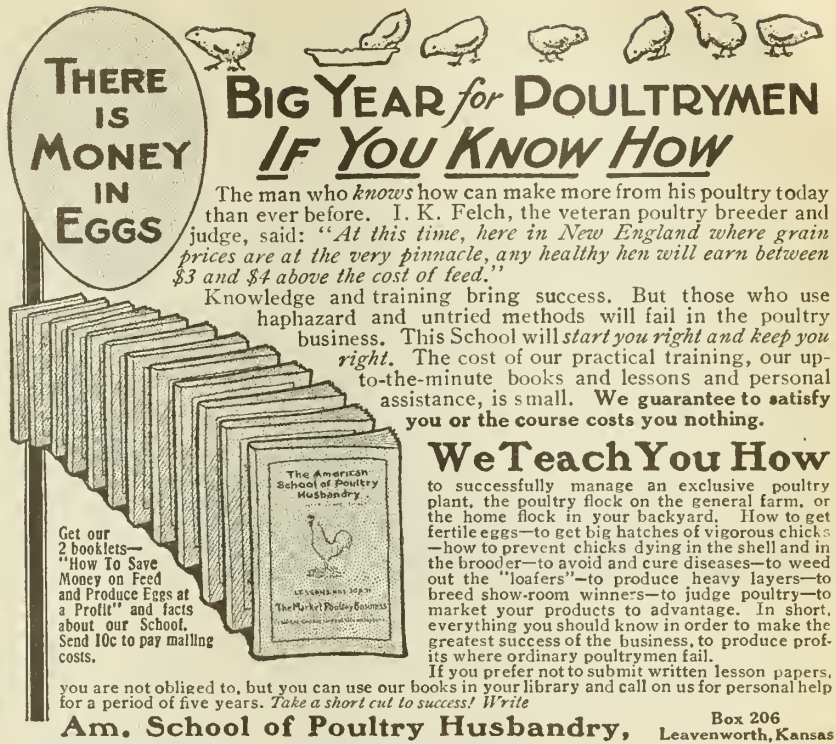
GEORGE B. FERRIS, 605 Shirley St., Grand Rapids, Mich.

to be taught "to roost." They have the going-up habit from the very first day. Their brooder is a 14-inch board eight feet long over two hot water pipes upon the dropping board, which is two feet from the ground floor and three feet wide. On this floor is their feed and water and comfortable hover. They are already "up" where they are soon expected to perch, and as a chick seldom forgets what he learns it behooves us to form the right habits from the start.

They have a 10-inch board running from this floor to the ground floor, which they slowly learn to run up and down. This gives them exercise as well as entertainment and forms the "going-up" habit.

On the brooder floor they have fine cut straw or alfalfa and scratch for chick feed in this. They also have troughs of dry mash by them all the time. As soon as they will take to green feed they have all they will clean up twice per day. On the ground floor they have clean, sharp sand and here they take their baths in the warm sun and as they must always run "up" to eat and drink they never forget their true home.

I keep plenty of good, sharp sand by them all the time, with charcoal and oyster shell. A well-bred chick, well incubated and brooded, and the feeding question is very simple. Give them all they will eat of any good, clean, wholesome feed and they will thrive. I do not feed wet mash at all. I have tried it off and on for years, and have at last decided that a wet mash creates too many bacteria.



THERE IS MONEY IN EGGS

BIG YEAR for POULTRYMEN
IF YOU KNOW HOW

The man who *knows* how can make more from his poultry today than ever before. I. K. Felch, the veteran poultry breeder and judge, said: "At this time, here in New England where grain prices are at the very pinnacle, any healthy hen will earn between \$3 and \$4 above the cost of feed."

Knowledge and training bring success. But those who use haphazard and untried methods will fail in the poultry business. This School will *start you right and keep you right*. The cost of our practical training, our up-to-the-minute books and lessons and personal assistance, is small. **We guarantee to satisfy you or the course costs you nothing.**

We Teach You How

to successfully manage an exclusive poultry plant, the poultry flock on the general farm, or the home flock in your backyard. How to get fertile eggs—to get big hatches of vigorous chicks—how to prevent chicks dying in the shell and in the brooder—to avoid and cure diseases—to weed out the "loafers"—to produce heavy layers—to breed show-room winners—to judge poultry—to market your products to advantage. In short, everything you should know in order to make the greatest success of the business, to produce profits where ordinary poultrymen fail.

Get our 2 booklets—
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EST. 1924
The Market Poultry Business

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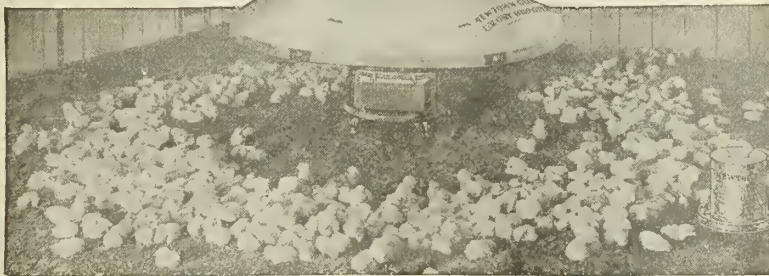
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EGGS—EGGS—EGGS—Do your bit. Start a flock of Minorcas and conserve. My conservation mating list is now ready. The demand for quality eggs this season will be greater than ever before. But in the face of this, I will furnish all the eggs I can at prices that will interest you.

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You Can't Go Wrong If You Buy A Newtown Colony Brooder

- Coal-Burning
- Self-Feeding
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- Efficient
- Economical
- Durable
- Safe



The first successful coal-burning colony brooder. Imitated but never equalled.

The modern coal-burning colony brooder is the most satisfactory brooding equipment ever produced. And the Newtown is acknowledged to be *the most efficient brooder of this type*. In all parts of the world, under all conditions, the Newtown "raises the most chicks, the best chicks, with least labor and at lowest cost." Ask any Newtown owner!

The Newtown was the first successful coal-burning colony brooder on the market. The first Newtown was a wonderful brooder, but through years of experience we have improved it in various details until today it is scientifically and mechanically perfect—the one perfect brooder.

Made in five sizes, for any number of chicks to 1000. Carefully constructed of superior materials, built to last for years. Burns coal, either hard or soft. (Gas burner can be furnished.) Fuel self-feeding. Self-regulating. Freely ventilated. Safe. Easy to install. Requires no special building. Simple in operation. Efficient to the highest degree. **GUARANTEED.**

Not the cheapest brooder in price or construction. But priced moderately and greatest value for the money. Tell us about how many chicks you plan to grow this year and we will mail brooder catalog free.

The Newtown Giant Incubator, like the Newtown Colony Brooder, is the choice of the most successful poultry raisers. Built in many sizes, 600 to 24,000 egg capacity. Let us know which size interests you and we will promptly forward full information regarding it.

NEWTOWN GIANT INCUBATOR CORP'N

21 Warsaw St., Harrisonburg, Virginia

As the chicks grow older they need less and less heat and the hover board is raised accordingly. They soon have enough animal heat to almost keep them warm. By thus gradually raising the hover board as they require less and less artificial heat, they become accustomed to rely on their own body heat, and it is only a simple thing to move them into another pen exactly the same except it is without heating pipes. I have a little coop that I drive them into, all at one time, and they are carried around to their new quarters and hardly know the change. They are changed to these quarters without heat at between three and four weeks old, depending upon the weather. Here the

CHARCOAL FOR POULTRY

Extra fine, fine, medium and coarse \$2.00 per hundred at Ironton. Cash with order.

John Silliman - Ironton, Ohio

cockerels are placed in one pen and the pullets another, thus making about fifty chicks to the pen. Between eight and twelve weeks the cockerels are sent to market and the pullets again are divided, making about twenty-five to the pen. This is their last move and their permanent quarters for the first laying year. As they have had the "going-up" habit from their first day, they naturally take to the perches which they have played on so many days.

One of the greatest problems of the poultryman has been to get the chick from the brooder to the perches. Many a promising lot of chicks have been ruined at this particular stage. By dividing them up into lots of fifty at this stage there is no loss whatever and they grow into vigorous birds that show stamina.

It must not be forgotten that cleanliness is next to Godliness in brooding

chicks as in all other things, and with the help of fresh air and sunshine these pens are kept clean enough for a man to sleep in.

The gravest danger in brooding in large flocks comes when they must be taken from this close, hot room, to which they have so long been, to their perching quarters. Here they are at a loss to know what to do because all is so strange, and consequently they huddle and crowd to death at night in the corners, and the chickens, the boss and all, sweat, and the man himself sweats blood, too, before he gets them all to perch.

Sooner or later you must divide them into small flocks to get many raised, so why not do it on the start and teach the baby chicks while they are at the learning age? You cannot tell an old hen anything.

To sum up the brooder proposition: Chicks must be from vigorous, well-mated breeding stock of mature age. Eggs must be incubated correctly, to make strong chicks. Brooder must have plenty of heat with fresh air conditions. Do not run too many chicks in one flock. Feed good, wholesome dry feeds in large variety as possible. A good variety of succulent green feed is imperatively necessary. If all these conditions, along with cleanliness, are adhered to, there should be no trouble in raising almost all the chicks hatched. Attention to cleanliness and bodily comfort of chicks is absolutely necessary, and bear in mind that first, last and always, sunshine and fresh air are the freest and most necessary things to chick life.

"Gas" the Poultry Lice

Declare war upon these destructive, profit-killing vermin. Adopt a policy of "frightfulness." Kill them by wholesale with LICECIL vapor. Merely hang a bottle of LICECIL near the roosts as directed. The vermin-killing "gas" will be delivered constantly in sufficient quantities to exterminate the lice and mites, to keep birds and roosts free from these trouble-makers.

Effective—No Trouble—Little Cost

Not necessary to handle each bird separately to dust or grease. The LICECIL vapor works all the time. No injury to the birds—sure death to vermin. LICECIL evaporates slowly, so bottle lasts for many weeks.

Tested for years—highly endorsed by leading authorities. Price—delivered—1 bottle, 75c; 3 bottles, \$2. Order now—adopt the better way. Circular free. Address nearest office.

LICECIL MANUFACTURING COMPANY

BOX 35 QUINCY, ILL. BOX 55 GERMANTOWN, PHILA., PA.



1

Here's the box opened to shape. Made from tough cardboard, strong enough to stand the hardest strain yet light as possible to save mailing charges.

Protection number 1.

2

These three corrugated strips go inside the box; one completely around the sides and the others top and bottom. They absorb the shocks between the eggs and the tough outside box.

Protection number 2.

Andrews Egg Carrier

Saves Money by Saving Eggs

There's no getting away from it, men, this new Andrews Egg Carrier is the greatest device of its kind in the Poultry World today. Its strong, tough, thick but cushion-like construction eliminates the enormous egg loss so common to ordinary carriers.

Poultrymen the country over are beginning to realize the safety—the durability—the economy of my new and perfect carrier. Just see how every egg is protected. Jolts and jars never have a chance against such protection.

The new Andrews Egg Carrier is shipped flat and can be put into shape in a jiffy.

The first cost is the last cost because every carrier can be used over and over again, always assuring you that every egg will get there *whole*. Now get these prices:

Commercial—per doz.		Hatching—per doz.
1 doz. size \$.60	4 doz. size \$1.55	15 egg size \$1 10
2 doz. size .95	5 doz. size 1.85	30 egg size 1.95
3 doz. size 1.25	10 doz. size 3.60	50 egg size 2.60
		100 egg size 4.90

In ordering please send sufficient amount to cover parcel post charges, otherwise goods will be sent express collect.

If you're a poultryman, I don't need to tell you twice that my brood coop, liceproof roosts, liceproof nest, poultry remedies and other accessories are the biggest money savers you've ever struck in the poultry business. Order direct from me. Catalogue free.

THE O. B. ANDREWS COMPANY
 Dept. A Chattanooga Tenn.

3

This is the carrier fully packed. Note how each egg is individually wrapped in corrugated board. Also note how compactly the separate egg boxes fit. Over top of these goes the pieces of corrugated board shown in 2.

Protection number 3.

4

Last of all the egg box wrapped for mailing. See how the short flaps on the top and bottom bend over. They form a spring that saves the box from the ordinary disaster caused by dropping.

Protection number 4.



THE GOLDEN LACED WYANDOTTE.

By MELVIN F. UPHOFF,
Leavenworth, Kansas.

IN THIS day when slackers in every line of work are being eliminated, when the call comes to every poultryman to weed out the drones, to increase production at the least cost, to double the egg production and the production of market poultry—in other words, to win the war—then comes the question to the beginner, "Which breed is the most profitable?" Thousands and thousands of men and women will take up the raising of poultry this year in answer to the call to produce more poultry and eggs. One of the first questions that will come into their minds will be the choice of breed. In the selection of a breed there are many things to consider, but the one that interests most of those who will start in this year will be, "How do they lay?"

As a laying proposition the Golden Laced Wyandotte cannot be excelled. For the production of a large number of eggs at the smallest cost they stand alone; in other words, they are the real profit producers. They are not a new breed; thirty-seven years ago they were originated—the product of American ingenuity. Large flocks of them may be seen in the central states where thousands of them are raised by farmers who demand a breed that can produce a large number of eggs under average farm conditions at the least cost. Their meat producing qualities, hardiness and their ability to produce a good profit under adverse conditions have won them a place in the heart of the farmer as well as the fancier. Going back to the days of the egg-laying contests in the latter part of the nineteenth century in England, we find that in 1898-99 they were awarded third place in the contest held by the Utility Club of England with all of the leading breeds competing. Then, in the same contest in 1901-02 they captured first place and won the blue again in 1906-07. In the Australian contest of 1905-06 they won fourth place with an average of 203 eggs per hen and the records of the 1907-08 contest show that they won third place with an average of 222 eggs per bird with six birds to the pen. Thirteen hundred and thirty-two eggs in one year by six birds is a record that any breed can well be proud of.

Skipping over a few years we find that they are still holding their own with the country's best at the All-Northwest Egg-Laying Contest. The report of this contest for 1917 (January) says: "A sensation was created by the work of the Golden Wyandotte pen No. 128 which laid 93 eggs for the month of January. These birds have shown that good looks are not incompatible with January egg production for they are high-class exhibition birds." In the latter part of September, 1917, two Golden Laced Wyandotte hens arrived at the American Egg-Laying Contest, direct from the New York State Fair, where they had won second and third in a large class. The official record of the contest for October shows that the second prize hen laid 22 eggs and the third prize hen laid 20 eggs. These are only a few instances of the laying ability of the Golden and I could give

"World's Champion Layers"

ENGLISH 200 EGG STRAIN

S. C. White Leghorns
S. C. Rhode Island Reds

White Wyandottes
Buff Orpingtons



**ANOTHER PROOF
Our 1917 Egg Competition Winners**

Our entry of five Wyandotte hens in the North American Egg Laying Competition, just ended, won First Prize and Three Silver Cups. These hens laid 1165 eggs, having these high individual records: 294, 267, 221, 220 eggs. Contest under government supervision.

Our Champion Wyandotte hen, "Liberty Belle," laid 294 eggs, winning first prize and cup, and establishing World's Highest Official Wyandotte Record. Her sister laid 267 eggs, winning third prize and cup against 500 competitors.

Merely another proof of our success in breeding 200-egg layers. Other competition winnings:

LEGHORNS—Highest award North American Egg Laying Competition, 100 pens competing, five hens laying 251, 250, 224, 222 and 192 eggs.

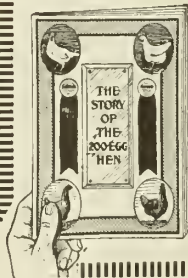
REDS—Highest award, in their class, N. A. Contest, five hens laying 1043 eggs, an average of over 200 eggs per hen. Highest Official Red Record known.

WHITE WYANDOTTES—Missouri International Contest, ten birds laid 2006 eggs, over 200-egg average. One layer made a record of 265 eggs.

If you want Leghorns and Wyandottes that lay, if Official Records mean anything to you, you should secure our strain. Our Reds and Orpingtons are also wonderful layers. We have many individuals that hold remarkable official records, and this bred-to-lay blood is strong in every bird in our flocks; acknowledged by poultry experts to be the **Most Profitable Poultry in America.**

**Eggs for Hatching
Early Hatched Cockerels
Baby Chicks
Breeding Stock**

Write today for copy of
"The Story of the 200-Egg Hen"



—contains pictures and records of our competition winners, plans of trapnest, feeding formula and other valuable information which will help you make your flock more productive and profitable. Price 10 cents, deducted from your first order.

PENNA. POULTRY FARM, Box A, Lancaster, Pa.
America's Foremost Breeders of "Hens-That-Lay"



Harnly's Quality White Orpingtons

Order your eggs and chicks from the only breeder who ever won grand championship White Orpington male and championship White Orpington male honors two years in succession. Buy where the many correctly mated pens of healthy, vigorous, blooded birds are high egg producers. Where the chicks are correctly hatched, are full of vigor and stamina, maturing quickly into egg and meat producers equal to the keenest show room competition.

EGGS (Fertility guaranteed) \$3, \$5 and \$15 for 15 \$6, \$9 and \$25 for 30 **BABY CHICKS** \$8, \$12 and \$40 for 20 \$14, \$20 and \$70 for 40
Mating list, with stock prices and other material, free.

Mary K. Harnly - 2301 Elisha Ave. - Zion City, Ill.

What's a CAPON and Why?

A BOOK that explains everything you will ever want to know about CAPONS. 50 pictures from life show each step in the operation. List of Capon dealers' addresses. Tells how to prevent "slips;" where to get the best and cheapest caponizing tools. Capons are immense eating. Big profits realized. Get wise. This book tells how. Regular 50-cent copy, prepaid to your address (a short time only), for a dime in coin or stamps.

GEORGE BEVOY, R. R. No. 7, CEDAR VALE, KANSAS



First prize Rose Comb Brown Leghorn cock at Madison Square Garden, 1916-17. Owned by Thoroughbred Poultry Yards, Dept. S., Evansville, Ind.

you hundreds of such, but these will suffice.

After seven years of breeding the Goldenes, I am more in love with them than ever before. From the time they kick out of the shell to the time they are ready to lay they are a never ending source of interest and wonder. When the little chick is first hatched it is a brownish black with two little fine stripes of lighter brown extending from

the top of the head to the tail. The breast is usually gray, sometimes dark and sometimes light. Feet and legs are bright yellow, sometimes shaded with horn. When they are a week old little feathers with golden centers and black edging begin to appear in the wings and tail. Then the body, back, breast and neck feathers begin to grow out, but these are usually black and sometimes mixed with golden. Nothing can be

told by the color of these chick feathers as they all drop out later and are replaced by the adult plumage. White often appears in the wing feathers of chicks but does not usually appear in the adult plumage. However, some strains of Goldenes have white in the wing and tail feathers, but I have always discarded any breeders showing this defect and soon had birds that never showed any white in any part of the

WYCKOFF'S S. C. WHITE LEGHORNS

Acknowledged Everywhere the World's Greatest Laying Strain—Unequaled in Standard Qualities

Remember that we are the originators and for 35 years specialty breeders of the justly celebrated WYCKOFF Strain of S. C. White Leghorns, the most profitable strain of poultry in America today. Place your orders at headquarters and make no mistake.

Eggs for Hatching

from the most carefully selected matings. Our breeding pens this season are made up with the finest lot of stock that we have ever owned. For size, strength, vigor and laying qualities, together with the true Leghorn type, they are unequaled. Place your order early and get in line with the most profitable era ever known in the poultry business. Send for free catalog, giving prices and complete description of the stock, together with testimonials from satisfied customers in all sections of the country. Address

C. H. WYCKOFF & SON

AURORA, CAYUGA CO., NEW YORK

ROSE COMB TOMPKINS' RHODE ISLAND REDS SINGLE COMB

Make a record win at Madison Square Garden, 1918. 6 first prizes out of a possible 10, including all firsts on cockerels, pullets and pens in both Single and Rose Combs. Best display of Reds in both combs and President's trophy for best display of Reds.

Large stock of fine breeding and show birds to fit any pen or show room, and prices always reasonable. Write your wants fully to

HAROLD TOMPKINS

Box A

CONCORD, MASSACHUSETTS

RUDY'S Perfection White WYANDOTTES

body. Injury to a wing will result oftentimes in the feathers turning white in the injured wing, but the other wing will not show the white, while if it is inherited the white will show in both wings alike.

I have found the Golden to be very hardy as chicks if properly hatched. In tests with many other varieties the Golden has always shown the least percentage of mortality. I have raised many flocks of them with a mortality of less than 5 percent of the number hatched. When the chicks are forty-eight hours old I feed them a mixture of two parts of rolled oats and one part bran with a very small amount of ground bone and charcoal. This is fed five or six times daily for the first week, feeding just what they will eat up clean in fifteen or twenty minutes. A clean board is the best thing to feed it on. Skim milk and water is kept before them in a fountain that does not permit them to get wet. Coarse sand is used on the floor and this also provides grit. When they are a week old I begin feeding a commercial chick feed, the best obtainable, and keep a dry mash before them all of the time, composed of 2 parts wheat bran, 1 part shorts, 1 part cornmeal and one-half part of rolled oats. The chick feed is fed in a litter of fine cut clover about an inch deep, gradually deepening the litter as they learn to scratch in it. For the early chicks which cannot get out on range I add a very small amount of beef scrap when they are two weeks old and increase it until they are getting 15 percent when they are a month old. Milk is very essential to the growth of the chick. I find the chicks are larger in size and better in color where milk is kept before them from the time they are hatched until they are full grown.

Sprouted oats are given the early chicks after they are two weeks old, just the ends at first and later the whole oat, root and all. Chicks hatched the first of March should be on range by the fifteenth of April. At this time I gradually change both scratch feed and dry mash. The dry mash is fed in hoppers and kept before them all of the time. It is composed of equal parts of bran, shorts, ground oats and cornmeal and one-half part of beef scrap, one-quarter part of bone meal, two pounds of fine charcoal and a half pound of salt to each one hundred pounds of the mash. The cracked grain is composed of equal parts of cracked corn and wheat, kept before them in an open hopper. When they are two months old I start feeding wet mash. This is made by moistening the dry mash with milk, and is fed in the afternoon at about two o'clock. They are given just what they will eat up clean in fifteen or twenty minutes. This makes them grow faster and also makes them grow a little larger, I believe. Skim milk and pure water are kept before them at all times.

Birds intended for early fall fairs are kept in very small flocks, not over fifteen to a flock, and given the very best of care. I never cage my exhibition birds before sending them to the fall fairs; simply put them in a large pen and give plenty of green food and make them work for their grain in a deep litter. A good feed of moist mash is given at noon to bring them up to standard weight or as near as possible. Standard weights do not apply to young birds

Stop Hatching Weak Chicks

With Cheap Incubators

Remember it is not how many you hatch that counts, but how many you raise. Chicks that hatch out weak and wobbly, and live but a few days, mean nothing to you except trouble and loss. They make one sick of the poultry business. Most of the chicks you lose in the first two weeks die because they did not hatch out with enough vitality or strength for a good start.

Queen Incubators

Hatch Chicks That Live and Grow

The Queen is accurately regulated—taking care of a temperature variation of 70 degrees without danger. It is built of genuine California Redwood—very scarce in these days of imitation and cheap substitution. Redwood does not absorb the odor from the hatching eggs. Cheaper woods, and pasteboard lining in iron and tin machines, retain the odors, to weaken and kill the hatching chicks.

Start your chicks with a Queen constitution and they will make money for you. The Queen is not a cheap incubator, compared with many of the cheaply constructed machines on the market, but it is cheap in the long run. It will be turning out high percentage hatches years after the cheap machines have been junked.

Sold by dealers. Catalog sent free on request.

QUEEN INCUBATOR CO.

No. 14th Street

Lincoln, Neb.



Sizes
60-egg to 2000-egg
PRICES, \$10.50 UP



1st Buff Orpington Hen
Indianapolis, 1917

No, I did not sell my

Buff Orpingtons

on the market because feed prices advanced.

I have the best lot of young birds I ever raised, bred from hens like the one illustrated in this ad and sired by my first Indianapolis cock.

Other Breeders May Have Better Birds,
But These Look Good to Me.

I have a lot of March and April hatched cockerels you can have your pick for \$10.00, \$15.00, \$20.00 and \$25.00. No more, no less. You can order direct from this advertisement. Your money back if not satisfied.

No, this price does not govern in females. Eggs are now selling at 50 cents per dozen and they will sell for \$1.00 this winter, so I am not crazy to sell females from the greatest winter layers that wear feathers.

Yes, I won at the Indiana State Fair, 1917: Five ribbons in the strongest class of Buff Orpingtons ever caged in this State. At the February show I won 1st cock; 1st and 2d hen; 2d cockerel; 1st old and 2d young pens. The young males I am offering in this advertisement were bred from these winners.

"Just shove your money under the door" and I will send you birds worth a little more than you pay for them. DO IT NOW!

THEO. HEWES

2503 Hillside Avenue

INDIANAPOLIS, INDIANA

Kendall White Orpingtons

Won at Chicago Coliseum Show, Dec., 1917

Six Prizes on Ten Entries!!

In the strongest kind of competition. This winning, together with past records, places the Kendall White Orpingtons in the front rank. A grand lot of birds for sale at prices anyone can afford to pay for good stock. Let me quote you prices. I can please you or no sale.

KENDALL ORPINGTON FARM

H. F. KENDALL
Proprietor

VIRGINIA, MINN.



Moeller's SINGLE COMB Brown Leghorns

again win 12 prizes at the 1917 Chicago Coliseum Show

in hot competition—this with previous winnings at the Coliseum and Indianapolis, Columbus and Milwaukee winnings is ample proof that my "Browns" rank among the best in the country. A choice flock of cockerels (either light or dark mating) for sale at \$5.50, \$8.00 and \$10.00 each; also 50 choice hens at \$3.00, \$5.00 and \$7.50 each. Eggs from six grand matings after February 15th. Write for mating list.

H. F. Moeller - Box 137B - La Porte, Ind.

BUFF ROCKS

Madison Square Garden, N. Y. Palace, Chicago, Kansas Grove laid 229 and 201 eggs each. Get my catalog.

Won Every First Prize Offered at Kansas City Show. Pronounced by Judge Drevenstedt best class he ever saw. Cocks, 1, 2, 3, 4, 5; Hens, 1, 2, 3, 4, 5, 6; Pullets, 1, 2, 4; Old Pen, 1; Young Pen, 1; Best Display in entire show. First Prize winners at City, World's Fair. Two pullets at Mountain C. R. BAKER Box A ABILENE, KANSAS



Chicks
150,000
for 1918

Ten Leading Strains
of Best Quality

White Wyandottes, Banded and White Rocks, Rhode Island Reds, White, Brown & Buff Leghorns, Anconas and Broilers. Egg average 254 for flock. Prompt shipment and safe arrival guaranteed. Catalog free.

C. D. McCracken
7319 Wakefield Ave., Cleveland, O.

**POULTRY INDUSTRY
REVOLUTIONIZED**

**MARVEL
COLONY
BROODER**
\$17.50



Coal Burning, Self Regulating, Super-Automatic Check Control, Exclusive Patent Features.

The MARVEL is guaranteed to perform better and to raise more chicks than any other Brooder. Big saving in operating expense. Will brood 50 to 1000 chicks for less than 6 cents per day. Cuts initial cost for equipment to less than one half. Perfect satisfaction guaranteed or money back in 30 days. Send for Circular on "Scientific Brooding."

LIBERTY STOVE COMPANY
102 S. 3rd St. Phila., Pa.

Stamford
Black Orpingtons

Choice Breeders

from our prize winning stock. Stamford Black Orpingtons have won at Madison Square, Boston and New York Palace, and have no peers. If you want to raise the best, which is the only kind worth raising, send today.

C. S. PURDY STAMFORD, CONN.

Brown Anconas
A NEW VARIETY

More striking in color, but retaining all the good qualities of the black and white Anconas.

No Eggs for Sale

Booking orders for stock for October Delivery. Send for Catalogue.

I. H. Murray
Originator
11337 Longwood Drive
Chicago, Ill.



in the fall but the more developed the bird is the better chance it will stand of winning. When I was but sixteen years old I defeated an old veteran at the game, simply because I had big, husky, well-developed birds for the fall fairs while his birds were late hatched and had not reached the size necessary to win. I find that one fall fair and a single winter show is all that a bird can stand. To show them at more than two shows in the season is liable to ruin the bird for use as a breeder. Showing immature birds at the fall shows is very injurious to the birds as well as the owner. It seems to stop their growth and they never reach the size that they would if left to develop on range. Size is one thing that we Golden Wyandotte breeders have to watch out for. Too many of the birds seen at the shows lack the size of the other varieties of Wyandottes and the public soon gets the impression that all Golden Wyandottes are smaller than the other varieties of Wyandottes.

Crowding a large number of birds in one coop will result in a flock of birds with white wing feathers. For best results do not keep more than 15 birds in one flock. Of course, if you are raising hundreds of them you cannot keep them all in such small flocks, but the thing to do then is to pick out fifty or sixty of the very best and most promising birds and house them in small flocks and put the others in a large house, but see that they have plenty of roost room. Single comb sports seem to be more numerous in the Golden than in any other variety of the Wyandottes. Do not think you have been cheated if you get one or two single comb sports out of a hatch. Ofttimes the beginner will write me and say, "The eggs hatched fine, got twelve chicks but one of them has a single comb. How does this come when I bought eggs from rose comb birds? Your birds must have got crossed with some single comb birds." Then I will have to write and explain to him that the Golden were made up of single comb birds when they were originated and that it is simply due to Ativism. All varieties of Wyandottes throw single combs more or less, but I think you will find that the Golden throw more single combs than any of the other varieties. Some years I will have very few single combs and then again I will have as many as 15 percent.

Mossiness is one of the worst defects that we have to fight against. The pullets will have beautiful clear open laced feathers, but when they molt one would think they were some other kind of fowl. Of course, not all hens are mossy but you will find that a pullet with narrow feathers that are heavily laced with black will invariably be mossy. A bird with wide feathers and open centers but the black edging not quite so prominent, will molt out clear in the majority of cases. It is, therefore, much better to breed from hens only and use only breeders that show clear open laced feathers. Use clear cushioned hens for breeders and males with saddle feathers free from an outside edging of black and you will soon have a strain that will throw large percentage of hens free from mossiness.

Breed for egg production as well as exhibition. Select for breeders hens with thin pelvic bones and plenty of

**STILES' COLORED
Leg Bands**

FOR BABY CHICKS

Growing stock, layers and breeders. Necessary on every poultry plant, whether large or small. Red, white, blue, green, black and yellow. Mention variety when ordering.

SPECIAL BRAND—Single coil. Made of lighter material and have less lap than Economy brand. 25 for 25c; 50-45c; 100-75c; 250-\$1.70; 500-\$2.75, postpaid.

ECONOMY BRAND—Single coil of highest grade. 12 for 15c; 25-30c; 50-50c; 100-85c; 250 \$2.00; 500-\$3.85, postpaid.

ROYAL BRAND—Double coil; Best of all. 12 for 20c; 25-35c; 50-65c; 100-\$1.10. 250-\$2.50; 500-\$4.75, Postpaid.

Bands for Growing Birds—(two sizes, state age) 12 for 15c; 25-25c; 50-40c; 100-75c; 250-\$1.75; 500-\$3.25, postpaid.

Baby Chick Bands—25-20c; 50-35c; 100-50c; 250-\$1.25; 500-\$2.25, postpaid.

THE VICTOR BAND
Large printed numbers, bright clear colors—Red, white, blue, green, yellow. Made of celluloid and aluminum. Adjustable. 12 for 35c; 25-65c; 50-\$1.25; 100-\$2.25; 200-\$4.00. **Victor Sealed Band**—12 for 40c; 25-75c; 50-\$1.50; 100-\$2.75. Pliers 60 cents.

ALUMINUM BANDS

THE CAPITAL BAND
Has raised figures. Adjustable, strong, smooth edges. 12-15c, 25-25c, 50-40c, 100-65c, 250-\$1.50, 500-\$2.75, 1000-\$5.25.

The Commercial Sealed Band—Aluminum, raised figures. Sealed with soft metal rivet. 25 for 35c; 50-65c; 100-\$1.10; 250-\$2.60; 500-\$5.00. Pliers 60c.

Poultry Cuts New designs, a complete line. Catalog Sent Free.

FAVORITE Poultry Punch, Price 25 cents.

GHAS. L. STILES

Department 6 COLUMBUS, OHIO

**S.C.W. Leghorn
and White Rock**

EGGS for HATCHING
AND BABY CHICKS

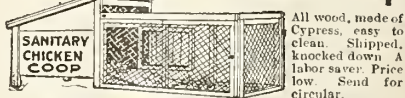
from America's greatest layers. Trapnest records of 200 to 264 eggs guaranteed. This is not a hatchery, but a real poultry farm and we own and know every fowl and the record and condition of it. Vigor, vitality, full count, safe arrival and absolute satisfaction guaranteed. 40,000 chix for 1918. Orders being booked every day for April, May, June and July deliveries. Order now if you want to get in on this wonderful bargain.

Prices—Eggs, \$6 to \$9 per 100. Chix, \$12 to \$18 per 100. Write for free catalog today.

MAPLESEED POULTRY FARM

U. A. Christensen, Prop. Lost Nation, Iowa

Sanitary Chicken Coop



All wood, made of Cypress, easy to clean. Shipped, knocked down. A labor saver. Price low. Send for circular.

SANITARY CHICKEN COOP CO.
GREENFIELD Box A INDIANA

POULTRY BOOK Latest and best yet; 144 pages, 215 beautiful pictures and color plates. Hatching, rearing, feeding and disease information describes the busy Poultry Farm handling 68 varieties including Indian Runners, Stella how to properly choose fowls, eggs, incubators and secure cheap feed. This practical book worth dollars mailed for 10 cents.
Berry's Poultry Farm, Box 115, Clarinda, Iowa



space between the rear of the breast bone and the two pelvic bones. Use birds that come nearest to the Standard weight for breeders. If you are going to breed Wyandottes, use birds the size of Wyandottes and not the size of Leghorns. Make the breeders take plenty of exercise and do not force them for egg production. Let them rest during the winter and they will be ready to lay a good number of fertile, hatchable eggs that will develop into big, husky chicks that are easy to raise and worth something after they are raised.

Properly handled and cared for, the Golden will show more real profit at the end of the year than any other breed that I have ever handled. Hardy, easily confined, great layers, and a fine fowl for the table, they are the ideal bird for either the farmer or the backyard poultry plant.

WHITE WILSONS.

A New Breed of Single Comb Layers and How I Produced Them.

By N. W. WILLIAMS.

I HAVE been asked a great many times to tell why I originated the Single Comb White Wilsons and in what way they are superior to other breeds. The story is a long one, but I will tell it here as briefly as I can.

Poultry has been my work and play ever since I was a mere boy and I have bred and handled many of the best standard breeds. I learned early in my career that each breed has at least one good quality that is not found in all the others but lacks other qualities that are equally as desirable, and I soon found myself breeding the three standard varieties best known because of their utility values—the Single Comb White Leghorn, the Single Comb White Orpington and the Single Comb White Minorca.

When bred to Standard requirements the White Leghorn is a beautiful bird and they are great layers of large white eggs, but as winter layers they are not as satisfactory as some of the larger breeds. As a market fowl the Leghorn makes a very good appearance, but is not popular on account of its small size. The Orpington proved to be a good winter layer, a fact that is brought out by the egg-laying contests being conducted in various parts of the country. However, during the spring and summer months they are more inclined to become broody than the smaller breeds and cannot be classed as persistent layers. While of good size, the Orpington does not make an attractive market bird on account of its skin being white. The eggs are brown and rather small. In most markets a premium is paid on large, white shelled eggs. The White Minorca is well known as a producer of great numbers of large, chalk white eggs. Like the Orpington they have a white skin and are not raised extensively as a market fowl.

The saying is "The hen that lays is the hen that pays," but at the same time everyone favors the fowl whose carcass is large enough and plump enough to make a respectable Sunday dinner. When we take hold of the drumstick and find it small and lean we soon forget what a good layer this particular hen has been. However, "it



First Hen, Boston, 1918

EGGS



First Cock, Boston, 1918

At the last Madison Sq. Garden Show, Dec. 28 to Jan. 1, we won

- 1st, 2d, 3d Cockerel
- 1st, 2d, 3d Pullet
- 1st, 3d, 4th Pen
- 3d, 4th, 5th Cock
- 2d, 3d Hen

1st Display which gave us the Silver Challenge Cup offered by the American Campine Club, winning it outright, having won twice in succession at the Club Show. This cup has been up for five years.

At Boston, 1918, we won

- 1st and 2d cock; 1st and 2d hen; 1st, 2d, 3d, 4th cockerel;
- 1st, 2d, 3d, 4th pullet; 1st and 2d pen; First Display.

"Homestead" VIGOROUS Campines

DOMINATE IN THE WORLD OF CAMPINES

If you are desirous of securing choice show birds, strengthening your flock, or starting with the best breed, do not delay writing us, stating just what you want. We have the birds and can please you.

At the New York State Fair

September 10-15, 1917, we won 1st and 2nd Cock; 1st and 4th Hen; 2nd, 3rd and 4th Cockerel; 1st, 2nd and 3rd Pullet; 1st and 2nd Pen; 1st Display. How's that!

Send for our price list today and make your selections of hatching eggs from these grand birds. Book your order early and avoid disappointment.

HOMESTEAD CAMPINE FARMS, Box A, WAYLAND, MASS.

AN EXTRAORDINARY CATALOG

We have issued a beautiful catalog giving the full description and history of this remarkable breed of fowl. No expense was spared in its production, and it is well worth many times the price, 15 cents.



The Uhl Hatchery

It is now eighteen years since we started hatching and shipping day old chicks by express. Our great success is due to our large number of satisfied customers, giving them honest value and fair treatment. We received thousands of reports saying, how well pleased and satisfied, and what fine quality of fancy and laying birds they raised. **Capacity 50,000 chicks per week** from 18 varieties.

- Rocks, Leghorns, Wyandottes,**
- Reds, Orpingtons, Anconas,**
- Minorcas, Spanish, Brahmas**

If you want the best there is in baby chicks for show or utility, we can supply you at the most reasonable prices. Write us at once for catalog.

M. Uhl & Co.
From the fifty baby chicks bought from you, I won seven prizes and a handsome silver loving cup for best display on an array of thirteen of your birds: 2d and 3d cockerel; 2d, 3d and 4th pullet; cockerel 2d pen and four pullets 3d pen. I am highly pleased to recommend your concern for this high quality and the fairness shown me. Respectfully yours,
P. M. Griffin, Ft. Wayne, Ind.

M. UHL & CO. - Box A, New Washington, Ohio

RAISING WAR BABIES?

The U. S. expects every one to do their bit, are you?

BABY S. C. WHITE Eggs for CHICKS LEGHORNS Hatching

(Barrens and Trapnested of course)

SPECIAL OFFER: Ten yearlings, records 160-175, mated to a cckrl. 250 dam, 280 sire, \$25. Catalog free. See class "D" for females and class "A" for males. **BAYVILLE FARMS**

Box A, Bayville "Utility Breeders" New Jersey

EGGS

THAT'S WHAT'S WANTED

It's not the number of hens you keep. It's how many eggs do you get. That's what counts.

Chickamauga

will bring the answer and especially so in cold weather. A trial order will convince you. 2 lbs. 35c, 4 lbs. 70c, 15 lbs. \$1.75

Full directions with every package.

Dealers wanted in every town and city. Special prices to dealers.

Dixie Poultry Food Co.
Box 451 Harrisburg, Pa.



Hummel's
27th ANNUAL
CATALOG Free
35 Varieties 35
of Fancy Poultry

EGGS for hatching at prices you can afford to pay.

Order your eggs early

S. A. HUMMEL

Box 52

Freeport, Ill.

Baby Chicks

Barred and White Rocks, R. I. Reds and Brown and White Leghorns.

Good sized healthy chicks from good utility range, and full count, and safe delivery guaranteed.

For further information and prices write

The Greentown Hatchery

CHAS. WARE, Prop.

Greentown, Ind.

Perry's Rose Comb White Leghorns

bred 16 years for eggs and beauty. 1st prize males Chicago, New York and Ohio State Fairs head our pens. Eggs, \$3 and \$5 per 15; nothing but the best mated. Grand cockerels \$2.50 to \$5.00. Reasonable satisfaction and safe arrival guaranteed.

LOUIS H. PERRY Route No. 8 CLAY, N. Y.

is cheaper to raise beef on four legs than on two." In producing the Single Comb White Wilsons I used the three breeds I have named above. My foundation stock was of the best laying strain I could secure of each breed. I wanted to give them the best start possible. I had in mind at all times a white bird of good appearance: one that would lay an abundance of large, chalk-white eggs, not only in the spring but also in the summer, fall and winter—partic-

laying and they are extremely hardy. They are a non-sitting breed and altho an occasional hen will become broody late in the season it is very easily broken up. They are great foragers when allowed free range, but do well when confined. They are equally adapted to the farm and the small yard on a town lot.

While growing the Single Comb White Wilsons is similar in appearance to the Leghorn. In fact, anyone familiar with



The great South American forage plant as grown on the farm of W. W. Kulp, Pottstown, Pa. It provides excellent green food and shade for growing chicks. This plant requires no attention after the first year.

ularly in the winter—one that was large enough to make a good market fowl but not large enough to become lazy and unprofitable; a bird with a rich yellow skin and shank—in fact, an all around family fowl. By scientific breeding and intelligent selecting and mating I have brought out these desirable qualities to a very marked degree in my White Wilsons. They compare favorably with the Minorca in size, cocks weighing about 8 lbs. and hens 6 lbs. They grow quickly, making broilers at eight to ten weeks, and pullets commence laying at an early age—often at 5½ months. They have a beautiful yellow skin and their flesh is fine grained and of excellent flavor. On account of using two white-skinned breeds I experienced some trouble at first in producing the yellow skin and orange slanks of the Leghorn, but by careful selection I have gradually established the desired color. However, an occasional bird will show the color of the Orpington and Minorca.

As layers they are unsurpassed as heavy producers of large white eggs, laying well thru the winter months when eggs are high and scarce at any price. Their eggs are uniform in shape and often weigh 30 to 32 ounces to the dozen. Cold weather has little effect on their

Leghorns but not understanding the Standard requirements would probably class them as such. As they grow older they become larger than the Leghorn—their backs longer and wider, their bodies deeper and their tails not so full. They are not quite as erect in carriage as the Leghorn. During the past five years I have greatly improved their type and Single Comb White Wilsons now breed as true in type as many of our standard breeds. I have kept my breeding stock in the best of health and condition at all times, realizing that good, strong, vigorous, healthy stock was necessary to produce fertile eggs, strong chicks and breeders that were fit for use in building up a new variety.

The name "Wilson" is taken from my home town, Wilson, Va. Good fortune has decreed that I should introduce these remarkable layers at a time when a man by the same name—President Wilson—occupies the most responsible position of this and many other ages and at a time when the Nation truly feels the need of a fowl that will prove profitable when grains are high. Our Food Administrator is calling for more eggs and more chicken meat and I am proud of the fact that Single Comb White Wilsons are more capable of meeting the crisis than any other breed.

SUNSWICK S. C. BUFF ORPINGTONS

won at the 1917-18 Madison Square Garden Show, 2d, 3d and 5th Cock; 1st, 3d and 4th Cockerel; 2d, 3d and 5th Pullet and 5th Pen. Think what chicks from such Birds would do for your flock.

HATCHING EGGS

\$5, \$10 and \$20 per setting. \$20 per 100 Eggs. 75% fertility guaranteed.

Sunswick Poultry Farm

BABy CHICKS

50c, each for fine, sturdy youngsters. Safe arrival guaranteed.

Get our 1918 Catalog and Mating List

Rufus Delafield, Owner, Tel. 549-J, Plainfield, Box J

BREEDING BIRDS

\$5 and up. Tell us your needs and we will give you personal service in selection.

South Plainfield, N. J.

THE INDIANAPOLIS POULTRY AND PET STOCK SHOW.

One of the Most Successful Exhibitions Ever Caged in the Capital City. Attendance Good. Many Sales Made in All the Leading Varieties.

THE SECOND annual exhibition under the new management in Indianapolis proved to be the most successful show that has ever been pulled off in the capital city. While the entries were not up to standard as compared to former years, the quality in all of the leading varieties was better than at any February show that has been held here in recent years and there was sufficient birds in all the classes in the important breeds to make competition keen and a winning at this show carries with it a great an advertising value as any exhibition held in the Middle West, aside from the Coliseum at Chicago.

The weather conditions for the past two months have been very discouraging to the fanciers. Then, again, the prices of feed has frightened many on account of the price of market poultry not keeping up with this increased price in poultry feeds, but when the matter was put up to the fanciers of this state as a patriotic proposition, in which they as Hoosiers were expected to do their bit at this particular time to maintain the reputation that this state has always held among the fancy poultry breeders of this country, there were no slackers. In every instance, the breeders were more than pleased that they made their entries, as there was a better demand and at reasonably good prices than has been paid in Indianapolis for the past five years.

Men who have financed the large exhibitions this year and have quit at the close of the season with the balance on the right side of the ledger, can certainly shake hands with themselves. On the other hand, the poultry breeders of this country should not lose sight of the fact that it is these successful shows, properly managed and properly conducted, that creates enthusiasm and brings into the fold the new breeder and the new buyer.

Looking back to the Coliseum in December, many readers of the AMERICAN POULTRY JOURNAL know full well that you visited that exhibition with the determination to give the show the "once-over," and if it was not up to standard, to discontinue the breeding of fancy fowls and dispose of your surplus, but after staying there for a few days, you realized that the business was not as dead as you imagined and you went home encouraged to go ahead and you are going ahead as indicated by the liberal amount of advertising that appears in this issue of this publication and what has been said of the Coliseum in Chicago can be truthfully said of the Indianapolis show.

While this exhibition cannot be classed with the Coliseum or with Madison Square Garden, it is one of the big little shows that has been held annually for more than thirty years and where buyers from all sections of the United States have got in the habit of coming to buy first-class breeding stock and hatching eggs.

The classes this year were about the same as we usually find in the Middle West; in other words, the popular or



	Lots of 25	Lots of 50	Lots of 100	Lots of 500
R. and S. C. R. I. Reds.....	\$3.75	\$7.25	\$14.00	\$70.00
Barred Rocks (The Real Ringlets).....	3.75	7.25	14.00	70.00
White Rocks.....	4.25	8.25	16.00	80.00
White Wyandottes.....	4.25	8.25	16.00	80.00
S. C. White Leghorns.....	3.50	6.75	13.00	65.00
S. C. Brown Leghorns.....	3.25	6.25	12.00	60.00

Prices for March and April Delivery

We also have other popular breeds.

Write for our catalog today. It tells about our varieties, our manner of doing business, tells how to care for baby chicks, etc. Remember, our breeding stock is of good quality and contains many prize winners.

If interested in brooders, ask for our combination offer.

THORNWOOD POULTRY YARDS AND HATCHERIES, Dept. 123, CRANDALL, INDIANA

SPECKLED SUSSEX

Winners at New York, Boston, Chicago and Cleveland

DIRECTOR, *America's Champion Sussex Cockerel*
MORAINÉ'S DELIGHT, *America's Champion Sussex Cock*

These superb birds were the **Blue Ribbon** winners at the Club Show, Cleveland, Ohio, 1918, in the greatest quality class of Speckled Sussex ever staged in America.

Judge Rawnley in the February Reliable Poultry Journal claims *Director* the best Sussex cockerel he has ever handled.

"Think of it" these two great sires are heading two of the finest matings of Sussex in the world. Write today for our free mating list describing these beautiful birds. YOU WANT THE BEST, send your order to

MORAINÉ FARM Poultry Dept., R. R. 16 DAYTON, OHIO

We Make

- Runways
- Trap Nests
- Brood Coops
- Colony Coops
- Setting Coops
- Portable Henneries
- Fireless Brooders
- Exhibition Coops
- Fattening Crates
- Portable Fences

Write for Our Free Catalog of these coops, nests and many other articles. You will save money and get the best.

Niemann Bros. Mfg. Co., Box 677 Mt. Olive, Illinois



Day-Old Chicks

The purchase of day-old chicks is the best way to start a flock. You can purchase them all at once and have no trouble with a lot of broods of different ages. Our chicks are

Hatched from the Best Utility Stock

and they are strong and healthy—they stand the rigors of shipment and are full of "pep" when you take them out of the box. We specialize in S. C. White Leghorns, S. C. Brown Leghorns, Barred Rocks, R. C. R. I. Reds and Broiler Chicks, also a few trapnested S. C. White Leghorn Chix from 200-Egg Hens.

SEND FOR OUR CATALOG TODAY

TWENTIETH CENTURY HATCHERY

Box 1

NEW WASHINGTON, OHIO



Fourth prize Barred Plymouth Rock hen at Madison Square Garden, 1917-18. Owned by C. N. Myers, Box A, Hanover, Pa.

every-day breeds were most in evidence.

The Plymouth Rocks, Barred, White and Buff, were a credit to any exhibition and there was sufficient competition to keep the exhibitors on the anxious-seat until all awards were made. In the Barred variety, we do not believe there has ever been a better quality string shown than that cooped this year by Mr. C. E. Spaugh, of Rugby, Indiana, and regardless of the fearful weather conditions we had for sixty days prior to the opening of this exhibition, there was not a frosted comb in his exhibit and his birds were shown in as good show condition as any exhibition at the Coliseum. Buff Rocks, not quite so large an entry as in 1917, but equal in quality.

White Rocks, not quite so large a class as 1917.

The Reds, both combs, were out in

force. Single comb variety leading in number of entries and a good demand from hundreds of buyers for all the surplus stock that was offered for sale.

In the Brown Leghorn class, we had undoubtedly the best quality show that has been staged in Indianapolis for the past five years, Herman Rickoff showing a full class, and it is generally conceded that Mr. Rickoff today has the best pullet line of Single Comb Brown Leghorns to be found anywhere in this country, and this year's exhibition proved that he is very nearly, if not quite, as strong in the male line as well.

The White Leghorn class was a sad disappointment. A very small entry and not enough birds in the class to make competition even exciting for the exhibitors.

Buff Orpingtons, the largest entry in the show. This variety of the Orping-

ton family has found a strong foothold in Indiana and any number of breeders are devoting their entire time to the production of first-class exhibition specimens. While many of the males in this class show the effects of the cold weather, having frosted combs and wattles, the exhibition was certainly one of the best that has ever been held in Indianapolis, and there was a demand here for the good ones in excess of the supply.

White Orpingtons, not so large a class, but many birds of exceptional merit.

Black Langshans, a show of themselves. Many of the old-time exhibitors out and it reminded one of old times when Ben Myers was in the ring.

Bantams, all varieties, strong. The entire stage was devoted to this entry and we understand the Middle West

Partridge Rocks

Send a stamp for either Partridge Rock or Turkey Catalog.

Bronze Turkeys

Again They Win at Madison Square Garden

Where the cream of the highest class fowls of the nation come, in the great preeminent show, Bird Brothers again demonstrate the superiority of their strains by winning as follows:

Partridge Plymouth Rocks 1-2 cock; 1-2 hen; 1-2-3 cockerel; 1-3 pullet; 1 pen. | **Bronze Turkeys** 1-2 cock; 1-2 hen; 1-2-3 cockerel; 1-2-3 pullet.

EGGS, SHOW AND BREEDING STOCK

BIRD BROTHERS ————— Box "C" ————— MEYERSDALE, PA.

BABY-CHICKS

will help to cut the high cost of living. Chicks of ten leading varieties. A special combination offer on chicks and brooders. Notice—We have a branch Hatchery at Augusta, Kas. to take care of our Western orders. Don't fail to get our catalog and book your order. Huber's Reliable Hatchery, 317 W. Fremont St., Fostoria, O.

BURN OIL

The Universal wickless oil burner makes any coal-burning colony brooder or incubator heater a perfect oil burner. :-: Fits any size stove. :-: Instantly installed; no changes necessary. Universal Manufacturing Co., Harrisonburg, Virginia

Bantam Association held one of the best meetings they have ever had and plans were perfected for even a larger entry for 1919.

Turkeys and water-fowls of the several varieties were well represented.

The Indianapolis show for 1919 will open on the first Wednesday in February. Other associations are requested to keep off this date.

NOTES OF THE SHOW.

The leading shows of the country have been favored this year by very liberal space thru legitimate concessionaires and Indianapolis is no exception to this rule. This year we had the following well-known feed manufacturers represented on the floor of Tomlinson Hall: The Quaker Oats Company, Albert Dickinson Company, Hales & Edwards and the Park & Pollard Company, all of Chicago; also the famous G. E. Conkey Company of Cleveland, demonstrating their own goods in their own booth, while the Buckeye Incubator was represented by the O. K. Seed Company of Indianapolis. The Queen Incubator and brooders displayed by the Southern Seed Company; the Petaluma Incubator Company, with a fine line of incubator and poultry supplies. The Simplex Incubator Company of Indianapolis, with one of their most attractive exhibits; the Oakes Manufacturing Company, with a full line of their poultry feeders and fountains, and last, but not least, the Poultry Doctor in the form of John Brinkama, with his full line of remedies and his glad hand for everybody.

A Correction.

In the advertisement of the Kam Poultry Yards, Fort William, Ont., Canada, in our February issue, we made the error of stating that their prize-winning Red Sussex were all from F. L. Pratt's stock. This should have read Frank L. Platt's stock.

Editor American Poultry Journal.

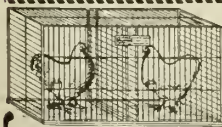
Dear Sir—In January issue of your journal, Mr. Plummer McCullough relates some experience with S. C. Black Minorcas molting out and some white feathers coming in in the place of black, and asks to hear from any other breeders of Black Minorcas that have had this experience. About 15 years ago I was line-breeding some high scoring S. C. Black Minorcas from one of the foremost breeders of the United States. I was surprised one fall at a cockerel after molting to see pure white feathers, not mottled as an Ancona, but two-thirds of his body was covered with pure white feathers, white to and including quill, the remaining feathers pure black; not any feathers with white and black.

As I had been breeding these birds for six years and was sure of my matings, decided it was some freak of the color pigments and did not want to chance any of his blood further in my strain and killed him, but was sorry later on that I had not kept him for another year to see what his next molt would do. I continued breeding that strain 12 years longer and no trace of white ever showed or any sign of color trouble.

I always won a good share of 1st prizes and for 8 years won 1st on heaviest dozen of white eggs in N. B. exhibitions, eggs weighing 2 lbs. 5 1/2 ozs. to the dozen. These birds were scored by Judges Felch, Maye and others of like note.

A. E. S. HATFIELD.

St. Martins, N. B.



COOPS

Clean, handy, vermin-proof, galvanized wire electric welded. Standard at all exhibitions. Shipped by parcel post. Outfits rented to bench shows.

KEIPPER COLLAPSIBLE COOPS

Write for illustrated catalog and attractive prices. KEIPPER COOPING CO., 1401 First St., Milwaukee, Wis.

Keeler's Vigorous White Wyandottes

= The Aristocrat of the White Wyandotte World =
WINNERS OF 5 FIRSTS, CHICAGO

Special for February and March.—500 large, vigorous, fully developed cockerels bred from my 1st, 2nd and 4th cocks; 1st, 2nd, 3rd and 4th cockerels, Chicago. Price, \$5.00, \$8.00, \$10.00, \$15.00 and \$25.00 each. Exceptionally fine specimens, \$35.00 and \$50.00 each. Also Cocks, Trios and Pens of



THE WORLD'S GREATEST STRAIN

Before you buy a single White Wyandotte send for my new, large, 64-page, instructive catalog and mating list giving the full history of my birds. A winning and breeding record of 24 years will convince you that I not only have birds that will win in any show-room but also fill the egg basket, some of my birds laying as high as 273 eggs a year. My prize-winning females are selected from among these layers. Here is the proof:

Box 18, Luseland, Sask., Canada, January 3, 1918.
Chas. V. Keeler, Esq.,
Winamac, Ind.

Dear Sir—I trust you will mail me a 1918 mating list. Am figuring on placing another order for eggs with you this spring. The birds I got from the eggs last spring are certainly dandies. Have had 15 of your pullets in a Woods' open-front (single wall) house all winter. Got 270 eggs in December from them. Two days of last month 50 degrees below zero, or average temperature for the month 28 degrees below zero. A steady cold month, with three blizzards. I am going to buy your eggs again this year. Wishing you every success during the coming year.
Yours truly,
(Signed) E. T. Hughes.

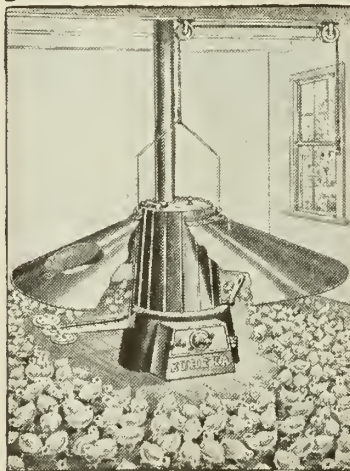
Eggs Eggs Eggs Eggs Eggs

The pens that will produce the 1918-19 winners and layers mated December 15th. I am in a position to furnish you eggs from the sixteen best matings in America. The best birds reared during the past three years are mated in these pens. My 1918 catalog and mating list of America's FINEST WHITE WYANDOTTES ready now. Send for YOUR COPY today. Eggs, \$5.00 per 15; \$9.00 per 30; \$14.00 per 50; \$25.00 per 100. A limited number will be spared from special matings at \$10.00 and \$15.00 per 15. State wants plainly and address.

CHAS. V. KEELER

R. F. D. 11, WINAMAC, IND.

Sold On A Money-Back Guarantee



When you buy a Eureka Brooder you run absolutely no risk. My guarantee is honest, with no strings attached to it. You can try this brooder 30 days. If after that time you are not entirely satisfied with it, return it to me—at my expense—and I will refund the purchase price without a quibble. I also pay the freight both ways. Can anything be more fair than that?

The Eureka Colony Brooder

Price \$17.50 and \$21.50

is a brooder that I have absolute confidence in. I am a large manufacturer of stoves and make every part that goes into it. I eliminate useless expense. This brooder has a corrugated fire pot, is self regulating and is made of solid cast iron, burns hard coal or natural gas as desired. I honestly believe it will raise more chicks and better chicks at a lower cost and with less labor than any other brooder on the market. I have testimonials from many users of the Eureka Colony Brooder and will gladly send them, together with full information about the brooder, if you write today requesting same. Don't forget my honest offer, 30 days' free trial without costing you a penny. Write now for descriptive literature. AGENTS WANTED EVERYWHERE.

JAMES R. WOTHERSPOON
240 N. Front St., PHILADELPHIA, PA.

S.C.W. Leghorns Light Brahmas Rouen Ducks

A fine lot of cockerels at very reasonable prices. Introduce the best blood into your flock.

A grand lot of birds for sale, both young and old. This grand old breed has both size and productivity.

These beautiful birds are an ornament as well as an asset. They grow like weeds. Finest show specimens.

Hatching Eggs From the Above Varieties

All have free farm range and are well developed. They are all kept on my own farm, under my personal supervision.
C. C. NYE
R. R. 1, Box A
HARRISTOWN, ILL.

Quality White Plymouth Rocks

Strong and vigorous chicks that will do their bit. Do your bit by sending us your order and help win the war. 25 for \$5, 50 for \$10, 100 for \$19. Chicks and eggs from exhibition pens, also several fine cockerels for sale. Orders booked for future delivery for 25 percent of order. Give us your order now and you will not be disappointed by not being able to get them later, as the supply will be short this season.

Address, A. G. SPAHR

Box 1240

XENIA, OHIO

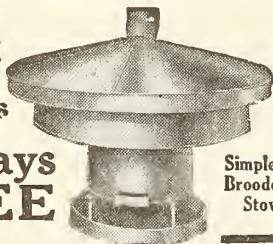
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About Coal Shortage!

USE KEROSENE

Get a SIMPLEX Stove

Brood Your Chicks



Simplex Brooder Stove

30 Days FREE

Use the new 1918 Simplex Brooder Stove on your own hatch for thirty days free. Raise 20 to 50 per cent more chicks at 1-5 the cost, 1-10 the work and 1-4 the operating expense. Small and large broods. Three sizes of stoves. Try our stove under all conditions and if you are not delighted send it back and we will cheerfully refund your money.

Turn Losses Into Profits

This wonderful brooder will raise 50 per cent more of your chicks than you have been able to raise under the old fashion methods. No more deaths from white diarrhoea and poor ventilation. It turns the losses from dead chicks into big profits for you. The Simplex soon pays for itself by the extra money it makes for you. The Simplex Brooder Stove burns kerosene oil, natural or manufactured gas, automatically regulated to insure an even temperature with the least possible attention.

Free Brooder Book

Write today for valuable free brooder book and catalog. It tells how to "increase your profits by decreasing mortality." Tells how to save chicks you have been losing each year through disease and faulty brooding. How to make more money. Also catalog and details of 30 days trial free. No obligations. Write now.

SIMPLEX BROODER STOVE COMPANY
3031 Ellsworth Ave. Grand Rapids, Mich.

Buff Orpingtons

At Greater Chicago Show, 1918

I won 1st and 2d Cock; Young Pen.
At Iowa Buff Orpington Club Show, 1 won Sweepstakes and Young Pen.
At Iowa State Show, 1917, I won 1st and 2d Pen, 1st Pullet, 1st Cock, 2d Cockerel, 5th Hen.

EGGS for HATCHING

Send for mating list and prices

F. S. JORDAN

Springville - Iowa

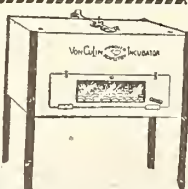
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For spraying Poultry Houses, Coops, Runs, Barns, Stables, Pig Pens, Kennels, etc. Ask your Dealer, or write us for literature. **CINNAKOL CHEMICAL SALES CO., 51 W. 52nd St., Bayonne, N. J.**

Pocket Money Poultry

A book full of facts about poultry. Write today for a copy of this great book, price **25c**
AMERICAN POULTRY JOURNAL PUB. CO.
542 South Dearborn Street Chicago, Illinois

THE MOTTLED ANCONA.

By R. W. VAN HOESEN,
Franklinville, N. Y.

THE FIRST impression people have of Ancona fowls is a lasting one, and invariably it is their striking beauty that catches the eye of the fancier. Nothing in poultrydom excels the contrast of black and white of the beautiful Ancona, so prettily mottled with little triangular white feather-tips on the shining black background, with a suspicion of green in the luster. And being one of the sprightliest of the Mediterranean breeds, a proud carriage, a white or creamy ear lobe, a light leg, a moderate angle tail—no wonder Anconas have become one of the large and popular classes in the show-room.

But the Anconas have more than beauty to recommend them. For more than a dozen years I have contended that the Ancona produces eggs at the least cost per dozen of any known fowl. This has been the experience of myself and scores of other Ancona breeders who have carefully compared them to other breeds. But it was not until recently that this rather strong claim was officially verified, when in January, 1915, the report of the 1914 Missouri Egg-Laying Contest at Mountain Grove, Mo., gave to the world exact figures that are indisputable. It must be taken into consideration that this report is not particular performances of certain birds, but the average by flocks for 365 consecutive days, of twenty of the best-known standard breeds. And there is no more reliable source known in the world than this Missouri experiment station. The report is verified and certified to by the professor in charge. Here are the figures: One hundred pounds of feed produced 300 eggs when fed to Anconas; 268 eggs when fed to Leghorns; 251 eggs from Wyandottes; 230 eggs from Orpingtons; 225 eggs from Campines; 203 eggs from Minorcas; 201 eggs from Rhode Island Reds; 188 eggs from Plymouth Rocks; 179 eggs from Langshans, etc. Furthermore, when all the eggs were weighed it showed that the Anconas laid the largest eggs of all the breeds tested. And the Anconas laid the largest percentage of eggs from November to May, when eggs are highest in price and most in demand for hatching.

No words that I may add can give greater emphasis to the value of Anconas.

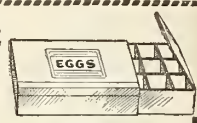
A few words about the history of this breed. Their native home is the province of Ancona, on the east coast of Italy. They were imported into England in 1848, and from England to America in 1890. They were admitted to the American Standard of Perfection in 1895. There are but two varieties—Single and Rose Comb. The Standard weights are: Cocks, 5½ lbs.; hens and cockerels, 4½ lbs.; pullets, 3½ lbs. Chicks develop very early, and the pullets begin laying at from 16 to 20 weeks old.

The Ancona breeders are associated in one of the strongest poultry clubs in the country, and have for seven years published a monthly magazine devoted exclusively to this breed.

During the 1917-18 show season, at many of the large poultry shows Anconas were one of the large classes, and

at several of the big meets they outnumbered any other breed. They have been increasing in popularity each succeeding year, and without doubt will continue to do so until they are as generally bred as any Mediterranean or American breed.

Wholesale Prices



Buy your egg boxes, chick boxes, coops, baskets, cartons, etc., direct from manufacturer and save 12½ to 35 percent.

"PREMIER" EGG BOXES

are the Standard type carriers which have been used with unexampled success for years and years. Made of the highest grade, deeply corrugated fibre board. Prices:

- 15-Egg Size, per dozen.....\$1.25
- 30-Egg Size, per dozen.....1.90
- 50-Egg Size, per dozen.....2.70
- 100-Egg Size, per dozen.....4.25

Discount of 5% on orders over \$10.00

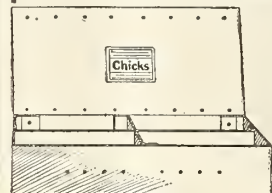
"PREMIER" CHICK BOXES

Yes, "Premier" chick boxes may cost you a few cents more than some other chick boxes, but they are worth it. Premier Ohio Hatcheries say our "Premier" chick boxes are far the best they have ever used. Send 15c for a sample and be convinced. Prices:

- 25-Chick Size, per dozen.....\$1.25
- 50-Chick Size, per dozen.....1.75
- 100-Chick Size, per dozen.....2.75

Discount of 5% on orders over \$10.00

Wire and Rush Orders shipped immediately.

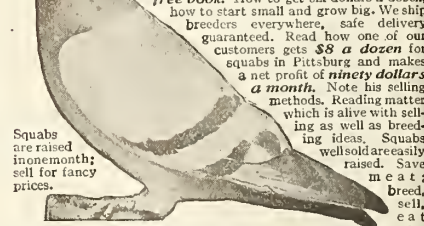


Wholesale Price List Free.

WESTERN BOX & BASKET CO.
Omaha, Neb.

SQUAB BOOK FREE

telling how a Mich. hired man now works for himself brooding PR squabs and selling for \$5 doz., how an Ind. man sold 4652 PR squabs for \$1265 and cured himself of desire to leave the farm, how a S. C. man ships PR squabs 125 miles to city hotel by parcel post at \$4.25 doz., how another earned one thousand dollars with PR stock from start with only one pair, how a Texas judge bred 8 pigeons until they amounted to a flock of 164 in one year, how a Vermont bred 25 pairs to 800 pairs in two years. You can do the same. More money-making experiences. Write today for this big free book. How to get six dollars a dozen, how to start small and grow big. We ship breeders everywhere, safe delivery guaranteed. Read how one of our customers gets \$8 a dozen for squabs in Pittsburg and makes a net profit of ninety dollars a month. Note his selling methods. Reading matter which is alive with selling ideas. Squabs well-sold are easily raised. Save money at breed, sell, eat squabs;



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MOVE THE TESTER, NOT THE EGGS

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F.W. DOBBEL SONOMA CALIFORNIA

White Plymouth Rocks.

THE origin of the White Plymouth Rock dates back to about the year 1876 and there is no variety of poultry that has reached a higher average quality up to this time. They are one of the most beautiful breeds of poultry that exists. The male birds with their pure white plumage, neat low comb, bright red eye and long broad back, and the females of the same description, make as beautiful a breed of fowls as anyone could wish. The standard weight of the cock is 9½ pounds and of the hen 7½ pounds. In mating to produce exhibition stock, one should select a male with good color, free from creaminess or brassiness in all sections of the plumage, a good red eye, a four or five-point comb, which should be low and neat, a good long and broad back, full breast and rich yellow legs. A male of this description mated to females with full breasts, broad backs and well spread tails will produce good results.

The White Rock eggs vary from light brown to a dark rich brown in color and are of good size. The general average of eggs produced by the White Rocks is from 150 to 175 per year. They are excellent layers the year round, which has been shown at the leading laying contests. The eggs also run very strong in fertility.

The fowls should be housed in substantial houses, built to face the south, with plenty of windows to admit all the fresh air and sunshine possible. Most houses are now being built with open fronts and have curtains to drop over the openings in stormy weather. The houses should be built not less than ten feet in width and more if possible, as this keeps the fowls farther away from the windows than in a narrow house and makes it warmer for them when on the roosts. Drop boards should be placed where the fowls are to roost and the perches placed from six to eight inches above the drop boards. Curtains can be made to drop down in front of the perches and this makes it more comfortable to the fowls by keeping the bodily heat in a smaller space. A good way to keep the perches free from lice and mites is to paint them with tallow. This will keep the perches entirely free from the pests. The floors of the house can be of ground, wood or cement, cement probably being the best, as it does away with rats working under the houses. If ground floor is used, ground should be filled in from four to six inches above the outside level, as this keeps the floor from becoming damp. A good litter of straw or leaves about ten inches in depth should be kept on the floor at all times, as this gives the fowls exercise in scratching out the grain when thrown



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America must grow more poultry this year. We will help by producing nearly

2,000,000 Chicks in 1918

Big, strong, vigorous chicks of unusual utility value and priced extremely low, quality considered. The great volume of business we do makes low prices possible. Our marvelous

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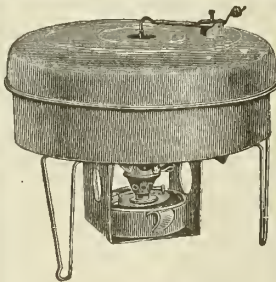
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| Barred Rocks | Black Minorcas |
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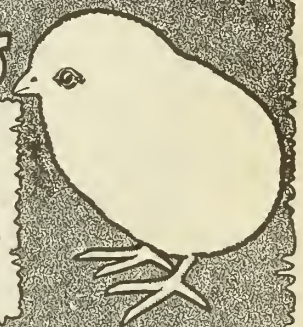
From pure bred, healthy, vigorous stock. Excellent for starting a pure bred flock or for improving the strain of an old flock. Send for our circular and pick out just the kind you want. We ship only strong, healthy, vigorous chicks of pure strain and true to name of breed. We also furnish eggs for hatching and guarantee safe delivery of both eggs and chicks.

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Properly hatched, absolutely healthy, thoroughbred Single Comb White Leghorn Chicks. From heavy laying, range raised hens that are guaranteed to be in perfect health. Scientifically mated to highly bred, thoroughly developed males, having heavy laying ancestors. 1200 hens are mated for day-old chick business. Eggs, \$7.50 per 100, \$3.00 per 30, \$2.60 per 15. Our sales of table eggs from our farm during the year 1917 in St. Louis alone exceeded 24,000 dozen.

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8 years' supply of California Redwood bought in 1915 makes old low prices possible. Years of unbroken success prove reliability of Progressive Incubators in securing full hatches of strong, healthy chicks. The Progressive is absolutely guaranteed or money back. Just think! A big, reliable, 155 egg incubator and brooder, both for only \$9.85. Write for big, free book and records of old users. **Progressive Incubator Co.** Box 135, Racine, Wisconsin



Save the Babies



Don't hatch eggs or buy baby chicks until you are properly prepared to raise them

SUCCESSFUL HATCHES are of less value than total failures if the chicks do not live to maturity, as a failure in the hatch is far cheaper than a gradual diminishing of the brood thru leg-weakness, bowel trouble, diarrhœa, smothering, chilling or of any other affliction.

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Not only artificially hatched but also hen hatched chicks require proper care. Nature gave the hen feathers to protect her chicks but neglected to give the sense necessary to keep her from leading her brood into damp grass or sometimes deserting them.

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Combine Nature's Gift with Common Sense

They embody the use of natural feathers which have been thoroly cleansed, renovated and fumigated. The brooders are made in both artificially heated and fireless construction. The hovers are suitable to be placed in any old brooder and are just the thing for breeders having heated brooder houses. They are inexpensive, light, sanitary, easy to handle and easy to clean.

You will not only raise more chicks, but your chicks will be stronger and larger than chicks raised in the average heated brooder if you use Simplex Perfection Feather Brooders or Hovers.

Chicks cannot crowd in these feather brooders. They cannot chill or smother. They just seem as contented between the feathers as a cat behind a kitchen stove.

Don't take our word for it, but ask the folks who use them.

Simplex Feather Hovers are being used on some of the most successful poultry farms in the country since 1910.

SEND FOR OUR CATALOG. It will tell you all about these wonderful chick raisers, as well as our automatic baby chick feeder and other poultry appliances. Send today—it's free.

SIMPLEX SUPPLY HOUSE

Pontiax Building

Chicago, Illinois

in the litter. The houses should be built so as to be entirely free from drafts, as fowls can stand very much cold so long as there is no draft. Corn-stalks placed around the north, west and east sides of the house will make it much warmer. One nest should be provided for each four or five hens and should be placed in a slightly dark place. Nests can be placed under the drop boards so the hens can enter from the rear. This way the nests are kept slightly dark and the hens will not learn to eat eggs as quickly as if in a light place where the eggs can be seen.

A variety of feed is needed to keep fowls in laying condition, corn, oats, wheat and barley being the principal grains used. A good daily feeding plan is to give an equal mixture of wheat and oats or commercial scratch feed, about a handful to each fowl in the winter and a handful to each two fowls when on range, scattered in the litter each morning; then at noon a mash mixture of equal parts of bran, middlings, corn meal, ground oats and meat scraps. This can be fed dry in hoppers or can be made into a wet mash by using water, or milk, if possible. Then at night all the whole corn they will clean up, especially in the winter months, as corn is a great heat-producing grain. Green feed in the way of cabbage, beets or sprouted oats should be fed as much as possible in the winter months. Lawn clippings also make an excellent green feed in winter if the clippings are dried in the shade and then put in a pail and pour boiling water over them and left to steam. They can then be fed this way or mixed with bran and fed as a mash. Green cut bone is also good for laying fowls or young stock. Fresh water should be kept before the fowls at all times.

Eggs can be hatched by using either hens or incubators, incubators being the best, as they are less trouble than hens and the hens can be kept at laying while the incubators are hatching the eggs. The White Rock chicks are not white when hatched, but are light brown or yellow, but this color soon gives way to the white. The chicks should not be fed for the first twenty-four to thirty-six hours, as the yolk of the egg is absorbed by the chick before it is hatched and this forms food for the chick for the first days. The first feed given can be infertile eggs taken from the incubator and hard boiled and then mixed with dry bread crumbs. This can be fed for the first few days and then they can be fed commercial chick feed or cracked wheat and steel-cut oats. Screened meat scraps should also be fed after the first week or so. This can be fed in hoppers. The chicks mature quickly and can be placed in colony houses which can be moved wherever convenient. The cockerels and pullets should be separated as soon as they can be distinguished and the cockerels can be fattened and sold if not wanted for breeders. The pullets should be placed in winter quarters when fully matured, which will be in about six months, and will be soon producing their share of eggs. If you are not breeding White Rocks, make a start by buying a trio, pen or a few settings of eggs, and you cannot help but be pleased with the results you will get. A few White Rock pullets will help cut the high cost of living next fall.

S. C. W. LEGHORNS—OHIO'S BEST

Our breeding pens contain our winners at National All Leghorn Show and Ohio State Fair and our price is but \$2 and \$3 per setting. Splendid cockerels at \$3.50, \$5 and \$7.50 each. Sold up on W. F. B. Spanish eggs for this season.

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NEW AMERICAN BREEDS—Patriots; color, red, white and blue. Send for circular. Westboro Farms, Westboro, Mass. 1-3

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ANCONAS—BABY CHICKS, 20 cents; hatching eggs, \$1 and \$1.50 per fifteen. Cleve Feuerhaken, Ontarioville, Ill. 3-5

THOMPSON'S MATCHLESS ANCONAS—Champion laying strain of world—331 eggs one year. Mating list free. E. C. Thompson, 4244 Penrose St., St. Louis, Mo. 3-5

GIES' ANCONAS ARE winners at New York, Guelph and Toronto. Catalog with official trap-nest egg records up to 272, testimonials with affidavit free. Oscar G. Gies, Bridgeport, Ont., Can. 3-5

ANCONAS—SINGLE COMB. Chicks, eggs and stock. John Biehler, Box A, Strasburg, Ill. 3-6

WAR! WAR!—GET a setting of Ancona eggs from the world's best laying strain and win. Frank W. Mains, Farmingdale, N. J. 3

BUY YOUR SINGLE COMB Ancona eggs for hatching and baby chicks this season from a trap-nested winter laying strain. We have them. Descriptive price list free. H. E. Errett, Box B, Nevada, Mo. 3-5

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CARDELL'S PEERLESS STRAIN Single Comb Anconas; eggs, \$2 and \$3 per 15, from 237 to 281-egg hens; mating list. F. L. Cardell, Northfield, Vt. 3-4

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ANCONAS—BOTH COMBS. Send for mating list and winnings. J. C. Saunders, Wauseon, Ohio. 3-5

S. C. ANCONAS—Baby chicks, 30 cents each. Eggs, \$3 per 15. Order early. Live delivery guaranteed. De Queen Hatchery, Hatfield, Minn. 3-5

S. C. ANCONAS, White Leghorns, Silver Campines, \$2 per 15 eggs. Cockerels, pullets, fine layers, \$2 each. A. Macy, Greenville, Ohio. 3

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S. C. ANCONAS—Prize winners and splendid winter layers; birds scoring 90½ to 94. Eggs, \$2 and \$3 per 15. Edw. Ripplloh, Minster, Ohio. 3

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ANCONAS—SHEPPARD Strain. Fine dark birds. Splendid layers. Eggs, 15, \$1.50; 50, \$4.00. Mrs. H. M. Buchele, Ada, O. 3

S. C. ANCONAS—Sheppard Strain, heavy layers. Fen 1, 15 eggs, \$2; 30, \$3.50; 50, \$5. Flock, 15, \$1.50; 100, \$7. Ella Whitwood, Hudson, Ill. 2-5

ANCONAS—SINGLE AND ROSE Comb, prize winners and egg producers, good type and nicely mottled dark stock. Eggs, \$2 per 15. Cockerels, \$3.50 to \$5. E. A. Berkner, Sleepy Eye, Minn. 2-4

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ROSE COMB ANCONAS; blue ribbon winner, Chicago Coliseum, 1917; eggs, \$2.50, \$5, \$10 per 15; satisfaction guaranteed. Dorendorp, 2047 Dayton St., Chicago, Ill. 2-4

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BLUE ANDALUSIAN cockerels for sale—Blue ribbon quality; price, \$3 to \$5. Eggs for hatching. Herbert Goetsch, Waltham, Minn. 3-4

TRUE BLUE ANDALUSIANS (the beauty breed—the birds that lay and pay) bred from and for prize winners with pure blue and finely laced markings; large, weighty, white eggs and lots of them all year. Settings, first pen, \$2.50; second pen, \$1.50 per fifteen eggs; hundred lots special price. Gus A. Kneussl, Ottawa, Ill. 2-5

BLUE ANDALUSIAN stock and eggs. W. C. Faust, Elwood, Ind. 1-3

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GOLDEN SEBRIGHT BANTAMS—Little beauties, prize winners five shows; males for sale; mating list free. Eggs, \$1.50 for 15. Lynn Stafford, Waucoma, Iowa. 3-5

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BLACK, BUFF AND Partridge Cochins Bantams; good color, type and size; eggs in season, \$2, 13. James W. Elliott, Decatur, Ill. 3-5

GOLDEN SEBRIGHT BANTAMS—Miniature beauties. Stock, eggs. F. L. Reinhart, Ottumwa, Iowa. 3-5

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BANTAMS—BUFF, WHITE and Black Cochins, Golden and Silver Sebrights, cheap if taken soon. Bare Poultry Co., Box 909, Hampton, Iowa. 2-4

BLACK COCHIN BANTAMS—Fine stock from birds scoring 92 to 94. White Cochins scoring 90½ to 93, by Judge Holden. A. M. Brand, Fairbault, Minn. 1-3

BANTAM SPECIALIST—Buff, Black, Partridge Cochins, Light and Dark Brahmas. I ship on approval. Circular free. Geo. C. Salmon, Binghamton, N. Y., Route 4. 1-17tf

GOLDEN SEBRIGHT BANTAMS—Quality right. Price right. Don Baird, Linwood, Cincinnati, Ohio. 2-4

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MAMMOTH LIGHT BRAHMA hens, \$2.50 each. Hatching eggs. A. Moritz, Rahway, N. J. 3-5

FOR SALE—DARK BRAHMA, Partridge Cochins eggs; bred forty years. Wilbur F. Wright, Lapel, Ind. 3-5

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PROGRESSIVE LIGHT BRAHMAS—Eggs from three elegant matings, \$1.50, \$3, \$6.50 per sitting. Mating list free. And. P. Smith, Grand Rapids, Mich. 3

THOROBRED LIGHT BRAHMA eggs for hatching; catalog free. Reams Brothers, Boonville, N. Y. 3-4

DARK AND LIGHT BRAHMAS, winners Iowa, Illinois state shows; eggs reasonable. Herman Weirlich, Cambridge, Ill. 3-5

FANCY LIGHT BRAHMAS—Eggs from high-class matings, \$2.50 per 15; \$7 per 50; \$12.50 per 100. Satisfaction guaranteed. Oscar Sjolander, Onalaska, Wis. 2-4

LIGHT BRAHMAS—Felch strain; stock, eggs, baby chicks. Mrs. Wm. King, Genoa, Ill. 3-5

LIGHT BRAHMA EGGS for hatching, \$2 per 15. Aaron J. Felthouse, Goshen, Ind. 3-5

EXHIBITION LIGHT BRAHMA cockerels and eggs. E. O. Strom, Shenandoah, Ia. 3

LIGHT BRAHMA EGGS from Indianapolis winners, \$2 and \$3 per 15. Circular free. Lora Vandivier, Franklin, Ind. 3-5

BRAHMAS, LIGHT AND dark. Eggs, chicks, breeders. Catalog free. Riverdale Poultry Farm, Riverdale, N. J. 2-4

MAMMOTH LIGHT BRAHMAS weigh, lay, pay; winners everywhere, including Chicago, St. Louis and Oklahoma City. Several exhibition cockerels. Write for mating list. Geo. Layman, Greenville, Ill. 2-4

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BUCKEYES—STOCK AND eggs. Prices reasonable. Lindley Place, Meshoppen, Pa. 3

ROYAL BAY BUCKEYES—Rich dark color, vigorous, heavy winter layers. Exhibition and utility stock. Send for mating list. E. J. Stoddard & Son, Rural Route 8, Decatur, Ill. 3

BUCKEYES—SEVENTEENTH YEAR—Cleveland, Columbus winners. Gardner Dunning, St. Marys, Ohio. 1-4

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SICILIAN BUTTERCUPS, excellent layers; 15 eggs, \$1.50. Hazel Whitwood, Hudson, Ill. 3-5

BUTTERCUPS—HATCHING EGGS, \$2.00 for 15. A. Lillis, 445 N. Saginaw St., Pontiac, Mich. 3-5

BUTTERCUPS—ROYAL STRAIN—Win at Chicago Coliseum Show, 1st hen, 2nd cock. Record hens to 270 eggs. Stock and eggs. J. Vernon Sheap, Jackson, Mich. 3

BUTTERCUPS—ALVINIAN Strain from hens laying from 260 to 309 eggs, and prize-winners; stock and eggs. Sahler & Sons, Harlingen, N. J. 1-4

GOLD COIN BUTTERCUPS—See page 368 O. B. Disenroth, Lawrence, Mich. 1-18-1yr

QUEEN QUALITY BUTTERCUPS win the blue at every show exhibited—Chicago, Syracuse and Oxford, New York. Only Western breeder winning in the East. If you want eggs from birds bred to win and lay, write for my catalog. H. Court, Kankakee, Ill. 2-4

MY STOCK AGAIN wins display at Madison Square Garden; 2 cock, 1-4 hen, 5 cockerel, 1-3 pullet, 1-3 pen. Booklet; eggs, stock, baby chicks. Hattie D. Reed, Marcelsus, N. Y. 1-3

BUTTERCUPS—HEAVY LAYING strain; eggs for hatching; great opportunity. A. D. Davis, Britton, Mich. 2-4

"VICTOR" BUTTERCUPS—Winners at Madison Square, Palace and Syracuse. Stock and eggs for sale. Booklet free. Arthur Loper, Box J, Bridge Hampton, N. Y. 2-4

CAMPINES.

WE OFFER FOR SALE choice Silver Campine breeding pens, 10 hens and cock, for \$25. Eggs, \$3 per 15. Star Silver Campine Farm, Huguenot Park, N. Y. 3

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BEAUTIFUL GOLDEN AND Silver Campines; first winners at the latest Chicago Coliseum, Milwaukee Auditorium and Wisconsin State Fair shows. Reasonable prices. Kissel Bros., Hartford, Wis. 3

SILVER CAMPINES for eggs in winter. Eggs, \$1.50 per 15. E. C. Aderhold, Plymouth, Wis. 3-5

YOU WILL NEED new blood this year. Try my strain Golden Campines. Catalog. Dr. Prudhomme, Thurmont, Md. 1-3

GOLDEN CAMPINES—I won all firsts on my birds at Chicago Coliseum, 1917. Write your wants and for prices. Paul Ziemer, Waltham, Minn. 1-3

PRIZE WINNING SILVER Campine cockerels and pullets for sale. Satisfaction guaranteed. All stock shipped on approval. J. C. McConnell, Princeton, W. Va. 2-3

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BUFF AND PARTRIDGE Cochins, winners Iowa, Illinois state shows. Eggs reasonable. Herman Weinrich Cambridge, Ill. 3-5

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WHITE CORNISH EGGS, \$2.50-\$5 per 15. Woodford Poultry Farm, Station M, Cincinnati, Ohio. 3-5

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DARK CORNISH—Choice hens and cockerels; second pullet Ohio Club Show. C. Leitnaker, Basil, Ohio. 3-4

DARK CORNISH COCKERELS, \$5 each; pullets, \$3 each. Two prize winning cock birds, \$10 each. Eggs, \$3 per fifteen. These birds were all raised from imported stock. John Blanchard, Columbus, Wis. 3-18-1f

WHITE CORNISH—Royal strain; choice cockerels for sale cheap. Springbranch Poultry Farm, Bellville, Ohio. 1-3

DARK AND WHITE Cornish from Chicago winners. Stamp for prices. W. B. Grinyer, Elroy, Illinois. 2-3

DARK CORNISH since 1896. Stock and eggs. L. Madsen, Gardner, Ill. 2-4

WHITE CORNISH FIRST prize, New York, Providence, Syracuse, Hartford; eggs, \$3 for 15, \$5 for 30. L. J. Smith, Deep River, Conn. 2-4

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WANTED—CREVE COUER pullets. H. Huebinger, Des Moines, Iowa. 3

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MY DOMINIKES won more first prizes in competition than any other strain in the Northwest at the leading state shows. Eggs for hatching, \$2 for fifteen; \$10 per hundred. Lawrence Holsten, Columbus, Wis. 3

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WESTFAL'S CHAMPION SILVER Dorkings—A combination of wonderful beauty and greatest market value; bred to weigh, lay and pay. These are chicks that grow two pounds at two months. More first prizes, silver cups and specials at New York, Boston and Buffalo than all competitors combined. Few birds to spare. No baby chicks. Eggs from best matings, \$4 per 13; \$7 per 26. Watson Westfall, Sayre, Pa. 2-18-1yr

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SILVER SPANGLED HAMBURG eggs, \$1.50 per 15. Matt Koch, Golconda, Ill. 3-4

SILVER SPANGLED HAMBURGS, Black Diamond strain. Highest honors at Madison Square and leading shows of America. Eggs, \$3.00 and \$5.00 per 15. If you want the best and birds that can win in any competition, you should order stock or eggs from Will L. Clark, Sullivan, Ohio. 3-16tf

SILVER SPANGLED cockerels and hatching eggs. E. V. Root, Paw Paw, Mich. 2-4

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GOLDEN PENCILED HAMBURGS—Eggs from Coliseum winners, \$3 per 15. Book orders early. Order direct from this ad. Myron Alberstett, Davis, Ill. 2-4

IF YOU WANT an excellent Silver Spangled Hamburg cockerel, with good deep diamonds, I have them at \$3 each, two for \$5. Warren Hockenberry, Byesville, Ohio, R. 1. 1-3

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MAXSON, THE HOUDAN Man, the original Sparbo strain, having purchased his entire flock, including Chicago, Minneapolis winners; eggs, \$3, 15; \$5, 30. A. H. Maxon, Webster City, Iowa. 3

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LAYING STRAIN AND fancy birds—A few hens and fine cockerels for sale. Hatching eggs booked for March and April delivery. Chantecler Houdan Yard, Louisville, Ohio. 2-4

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MOTTLED JAVAS, "Dark" and "Improved" strains; eggs, \$2 per fifteen. Dr. A. M. Stocking, Neponset, Ill. 3

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LAKENVELDERS—EVERLASTING layers, supremely beautiful; eggs, \$2 for 15. Hermitage Farm, Millersburg, Ohio. 3-4

LAKENVELDERS—CHICAGO winners; fine birds for sale. Write Frank Myers, Freeport, Ill. 1-3

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BLACK LANGSHAN baby chicks, fancy or utility, from heavy laying strain. Mrs. Ray Marr, Chatsworth, Ill. 3-4

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CHOICE BLACK LANGSHANS—Males; large boned; black eyes; good breeders. A Stransky, Chilton, Wis. 1-3

BLACK LANGSHANS—Hagerstown winners; choice cockerels, and eggs for sale. Levi Fishel, Dillsburg, Pa. 1-3

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TOM BARRON Single Comb White Leghorns. Free catalog shows lifelike pictures of our long, deep bodied, big combed thoroughbreds from Barron's 1914 Storrs contest prize pen mated to imported 278-282 egg pedigree males; positively the highest egg record Leghorns he ever sent to America. Hatching eggs, \$7; chicks, \$15 per hundred. Northland Leghorn Yards, Grand Rapids, Mich. 1-3

BARRON-YOUNG-SMITH S. C. White Leghorns. Cockerels, \$2 and \$3 each. Yearling hens, \$2 each; hatching eggs, \$6 per 100. Satisfaction guaranteed. Sunny Acre Leghorn Farm, Sandwich, Ill. 11-4

100 SINGLE COMB WHITE Leghorn Cockerels from 264 egg strain, \$2 each. Joe S. Troutman, Salem, Iowa. 1-3

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FERRIS 264-EGG STRAIN White Leghorn cockerels, \$3 up. Chicks, eggs. David Mahoney, Juneau, Wis. 3

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HELP SWAT THE KAISER with Tom Barron Single Comb White Leghorns; all male birds have an egg record of more than 260 eggs in one year. Eggs, \$1.50 per 15; \$6 per hundred. Geo. Morrison, Batavia, Iowa. 3-5

SINGLE COMB WHITE Leghorn eggs from trapnested stock, \$2 per 15. L. P. Bradley, Virden, Ill. 3-5

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SINGLE COMB WHITE LEGHORNS—Hatching eggs in large quantities from choice stock of the best laying strains. Males bred from 200-egg hens or better. Baby chicks after April first. Prices reasonable; satisfaction guaranteed. Circular. Harry F. Palmer, Box C, Middleport, N. Y. 3

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S. C. WHITE LEGHORN eggs, \$2 per 15; \$10 per 100. C. O. Tankersley, Lewisburg, Tenn. 3-5

S. C. W. LEGHORN hatching eggs from 264-egg strain hens, mated to one of Lord Farm's best cockerels. He is a fine bird from high egg strain, \$3 per 15; range stock, \$2 per 15, \$10 per 100. Joe S. Troutman, Salem, Iowa. 3-5

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STOCK AND EGGS from beautiful, snowy Single Comb White Leghorns, 100, \$5. Also bred-to-lay Banded Plymouth Rock eggs. Carefully packed. Mrs. R. A. Homer, Box 95, Smithfield, Ill. 3-5

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SINGLE COMB WHITE LEGHORN eggs—Proposition something new. Hillside Poultry Farm, Council Bluffs, Iowa. 3-5

SINGLE COMB WHITE Leghorns, glistening white, 236-egg bred. If you want delicious early fryers, persistent layers and handsome breeders and be satisfied as an army of old customers are, order my hatchable eggs, livable chicks, thrifty two-months-old pullets. Write B. J. Woodmansee, Highland, Ohio, today for folder and buy superior stock. 3

S. C. WHITE LEGHORNS from a heavy laying strain. Eggs, \$1.75 per 15; \$5.50 per 50; \$10 per 100. 80 percent guaranteed fertile. R. A. Zimmermann Mayville, Wis. 3-4

\$\$\$—HIGH CLASS S. C. White Leghorns. Wyckoff-Yesterlaid strains direct. Male is son of hen that laid 205 eggs in her pullet year. Eggs, \$2 per 15. W. Foss Littler, Dunkirk, Ind. 3

STANDARD-BRED SINGLE Comb White Leghorns; cockerels, \$1.50 each; 100 eggs, \$5. Bearden Poultry Farm, Thayer, Ia. 3-5

S. C. WHITE LEGHORNS—Farm range; 500 layers. Large white eggs, \$6, 100; \$5.5, 1,000. Chicks, \$14, 100; \$135, 1,000. E. H. Burcham, Medora, Ind. 3-5

SINGLE COMB WHITE Leghorn eggs for hatching. Pen headed by Wyckoff strain direct. \$1.50 per 15, postpaid. H. C. Harris, Stillman Valley, Ill. 3-5

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S. C. W. LEGHORN 200-egg stock and eggs for sale. M. Stockley, Winnetka, Ill. 2-4

YOUNG'S AND BARRON'S strains Single Comb White Leghorns on two different farms; eggs from farm range stock hatch better and are thrifty eggs, \$6 hundred. O. B. Williams, Tuscola, Ill., Route 5. 2-5

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MY S. C. W. LEGHORNS are the best money can buy, being direct from Young's winning pens, Boston, New York, in 1915; get in the first line trenches by ordering eggs and chicks now; satisfaction guaranteed. Arthur Pyle, Redkey, Ind. 2-4

SINGLE COMB WHITE Leghorns—Smith's strain hatching eggs, \$2 per setting or \$8 per hundred. Mrs. Ella D. Ross, Newton, Ill. 2-3

SINGLE COMB WHITE Leghorn; Young's strain direct; eggs of great layers, \$1, 15; \$3, 50; \$6, 100; \$12, 200; \$18, 300; order filled promptly. Henry Heltkamp, New Bremen, Ohio. 2-4

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SINGLE COMB WHITE LEGHORN eggs for hatching, \$7 per 100; baby chicks, hens and pullets for sale. Geo. C. Sayres, Cincinnati, Iowa. 2-5

\$3.25 PER 100 EGGS—Welday's English-American S. C. White Leghorns; world's leading layers; catalog. Welday, Seville, Ohio. 2-4

FULL-BLOODED BARRON cockerels, chicks, eggs; 240-egg strain; heavy winter layers; contest winners; mating list. Devries' Leghorn Farms & Hatchery, Zeeland, Mich., Box 222. 2-4

S. C. WHITE LEGHORNS—Mountain View strain of bred-to-lay stock; mating and price list free. M. G. Sanger & Son, Mt. Solon, Va., R. 2A. 2-4

SINGLE COMB WHITE Leghorn eggs from prize winning stock, \$1 per 15, \$5 per hundred. Henry Gausman, Batesville, Ind., Route 4. 2-5

S. C. WHITE LEGHORN eggs for hatching, \$2, \$3 or \$5 per 15; \$7.50 per 100. Ten grand pens. Stoffer's Poultry Farm, West Allis, Wis., R. 4, Box B. 2-4

YOUNG AND FERRIS Strains S. C. White Leghorns. Eggs for hatching, \$2 for 15; \$14 for 100. Rawls' Poultry Farm, R. F. D. 3, Suffolk, Va. 2-4

TRY THE FAIRVIEW Heights Strain of S. C. White Leghorns. Free range; heavy layers. Chicks, \$14 per 100. Eggs, \$7 per 100. Satisfaction guaranteed. T. M. Jackson, Blanchester, Ohio. 2-4

R. C. WHITE LEGHORNS

NO FROZEN COMBS if they're Rose Comb White Leghorns; 15 eggs, \$1.50; 30, \$2.50; 100, \$5.50. S. F. Heavlin, Seville, O. 2-4

MADISON SQUARE GARDEN winners; all firsts. 1918 mating list free. Wm. E. Anderson, Box C, Rush City, Minn. 3-5

EGGS, \$1.00 PER 15, \$6.00 per 100, from our bred-to-lay and bred-to-win Rose Comb White Leghorns. George Rigler, Bentonsport, Iowa. 3-5

OUR ROSE COMB WHITE Leghorns just won 4 firsts and 3 seconds at last Chicago show. Eggs, \$2.50, \$5 and \$7.50 setting. Franklin Morris, 821 Galena, Aurora, Ill. 3

ROSE COMB WHITE LEGHORNS—Winners, layers; eggs reasonable; hatch guaranteed. Folder free. Harry Aiken, Chaseburg, Wis. 3-5

R. C. W. LEGHORNS—\$1 per 15. Mrs. Hy. Eckmans, Uniontown, Ky. 3-4

S. C. BROWN LEGHORNS

\$3.50 PER 100 EGGS—Welday's 256-egg record Single Comb Brown Leghorns; world's leading breeder; catalog. Welday, Seville, Ohio. 2-4

HATCHING EGGS from my bred-to-lay Single Comb Brown Leghorns, 15, \$1.75; 100, \$6. Satisfaction guaranteed. Also hens for sale. David Stoneburner, Quaker City, Ohio. 3-4

S. C. BROWN LEGHORNS—Farm range; 256-egg stock, the kind that win and lay. Eggs for hatching, 15, \$1.25; 50, \$3.50; 100, \$6.50. Bert Pennington, R. 6, Cisme, Ill. 2-4

BUY EGGS FROM pure-bred Single Comb Brown Leghorns that lay summer and winter; \$2, 15; \$10, 100. Mapielawn Poultry Yards, Brighton, Tenn. 3-5

SINGLE COMB BROWN LEGHORNS—Kulp and Russell's strain; eggs from farm range flock, \$6 per hundred. Mrs. Geo. W. Lohman, Osborn, Mo. 3-5

FIFTEEN EGGS FROM VIGOROUS, healthy, free range, winter laying, light Brown Leghorns; \$2, parcel post prepaid. T. W. Hubbard, Knob Fork, W. Va. 3-5

EGGS FROM MY large 266 record line; large eggs. Catalog. W. W. Kulp, Box 70, Pottstown, Pa. 3-5

S. C. BROWN LEGHORN eggs, 15, \$1.50. Bessie Brinkerhoff, Springfield, Ill. 3-4

SINGLE COMB LIGHT BROWN Leghorns—Hatching eggs, \$2.50 and \$5 for fifteen. John B. Sheets, Hagerstown, Md. 3-4

S. C. BROWN LEGHORNS—Both lines. Eggs from 10 choice matings. Send for catalog. Geo. L. Hornbrook, Box B, Decatur, Ill. 3-5

8,000 EGGS—DARK Single Comb Browns; rich color, strong striping; \$6, 100; \$2.50, 30. Murl Edwards, Rockbridge, Ill. 3-4

UTILITY STOCK baby chicks. Book early; mammoth Toulouse geese. Write Frank Else, R. 2, Lockport, Ill. 3

SINGLE COMB BROWN Leghorn eggs—15, \$1; 100, \$4. Mrs. John Morse, Avon, Ill. 3-5

R. C. BROWN LEGHORNS

ROSE COMB BROWN LEGHORNS—Early hatched; cockerels and pullets. J. W. Cook, Bluffton, Ind. 1-4

KULP'S 242-EGG STRAIN—Rose Comb Brown Leghorn chicks; 100, \$15; 100 eggs, \$5.50; 15 eggs, \$1.15; cockerels, \$2. Mrs. M. N. Smith, Packwood, Iowa. 1-3

NOTICE—ALL PHOTOS in my catalogs are absolutely of birds bred and owned by me. Beware of those who call them theirs. W. W. Kulp, Pottstown, Pa. 2-3

\$3.50 PER 100 EGGS—Welday's 242-egg Rose Comb Brown Leghorns; greatest winter layers known; catalog. Welday, Seville, Ohio. 2-4

ROSE COMB BROWN Leghorns—Eggs from Standard-bred stock, 100, \$6. Pirtle Poultry Farm, Bloomfield, Iowa. 2-4

COCKERELS of 254 record hen, \$7 and \$10; other cockerels, \$3 up. Eggs, \$2 to \$7 per 15. Catalog. Testimonial: "I raised the best layers I ever saw." W. W. Kulp, Box 70, Pottstown, Pa. 3-5

S. C. BUFF LEGHORNS

PRIDE'S S. C. BUFF Leghorns in 4 shows win more blue ribbons than all competitors combined; 2 sweepstakes at Marion, Jan. 1st to 5th; mating list Feb. 1st for asking. Dewitt Pride, Marion, Ill. 2-4

S. C. BUFF LEGHORN eggs from best pen in South; few cockerels. W. W. Pitts, Lewisburg, Tenn. 2-5

SINGLE COMB BUFF Leghorn eggs and chicks. G. D. Bush, Elyria, Ohio. 2-4

SINGLE COMB BUFF Leghorn stock and eggs for sale. F. J. Rosenberger, Tiffin, Ohio. 1-3

SINGLE COMB BUFF Leghorns—First and third cockerel, third pullet, Madison Square, 1917; folder. Glenwood Poultry Yards, Rutherford, N. J. 2-4

S. C. BUFF LEGHORNS from my Kansas City, St. Louis, Indianapolis, Pittsburgh, New York City winners. E. Cartwright, Box J, Richmond, Ind. 2-3

SINGLE COMB BUFF Leghorns—Cockerels; eggs, \$6 per 100; circular free. Eli Rosenberger, Tiffin, Ohio, R. 9, Box 26. 2-5

BUSINESS BEAUTY BUFF Leghorns from large eggs from mature, typical, robust, prolific hens. Both combs. Out-bred, pedigreed. Catalog. Joseph Benedict, Chevy Chase, Md. 1-18-17

S. C. BUFF LEGHORNS, bred 20 years for heavy egg production; winners in America's greatest shows; stock and eggs for sale; mating list free. L. E. Merihew, Marathon, N. Y. 2-4

EGG-BRED SINGLE COMB Buff Leghorns. Winners at best shows. Leaders at laying contests. Breeders, eggs, chicks, priced right. Lea Munger, De Kalb, Ill. 2-3

S. C. BUFF LEGHORNS—They win, they lay eggs; prices reasonable. Mrs. H. Hoskins, Fairfield, Iowa. 3-5

S. C. BUFF LEGHORNS—Good, healthy, farm range stock; fine layers. Eggs, 15, \$1.50; 100, \$6. Well packed. Edmond Berkshire, Depauw, Ind. 3-5

S. C. BUFF LEGHORN and Barred Rock Eggs—Baby chicks in season. Prices right. M. M. Omick, Batavia, Ill. 3-5

SINGLE COMB BUFF Leghorn eggs from 3 well mated pens. Hatch guaranteed. Write for prices. Jack Stumpe, Pinckneyville, Ill. 3

S. C. BUFF LEGHORNS—Bred to lay and winners; eggs and chicks. Henry Michel, Sublette, Ill. 3-5

BUY BUFF LEGHORN stock, eggs, baby chicks from bonded breeders. Particulars free. International Single Comb Buff Leghorn Club, Topeka, Kan. 3

DR. HEASLEY'S STRAIN of Buff Leghorns direct. We have one pen we believe to be as high in breeding quality as any mating in America. The male heading this pen is positively the best Buff Leghorn male we ever saw. He is a wonder and in all points comes near perfection. Other yards headed by sons of this wonderful cock. Eggs \$10 and \$3 per 15. Aug. D. Arnold, Dillsburg, Pa. 3

SINGLE COMB BUFF Leghorns—Chicago, St. Louis, New York, Milwaukee, Kansas City winners. Catalog. C. Leitner, Elgin, Ill., Box 8. 3

HAGERUP'S S. C. BUFF Leghorns—Stock and eggs. 1102 12th Ave., Maywood, Ill. 3

SINGLE COMB BUFF LEGHORNS—The largest breeder of Buffs in the world. I am using my nineteen sixteen and seventeen catalog selling stock, chicks and eggs at the old prices. I have a Mammoth incubator and can furnish day-old chicks or eggs by the thousand. My birds are trapped and are the best layers. They have won over fifty fine silver cups at the leading shows. Come to headquarters for your Buffs and I will please you. Eggs as low as \$2.00 per fifteen and \$10.00 per 100. Baby chicks, 25 for \$6.00; fifty for \$11.00 and \$20.00 per hundred. F. S. Smith, Box C and D, Hamilton, Ohio. 3

EGGS FROM CLEVELAND, Buffalo, Rochester blue ribbon winners, \$3 and \$5. Interpark Poultry Yards, Buffalo, N. Y. 3-5

R. C. BUFF LEGHORNS

15 CHOICE ROSE Comb Buff Leghorn cockerels for sale; 7 at \$3; 5 at \$5; 3 at \$7; \$55 takes all; egg orders booked; setting, \$3. Fred Luebke, Watertown, Wis. 1-4

BUSINESS BEAUTY — See Single Comb class. 1-18-17

ROSE COMB BUFF LEGHORNS—Stock and eggs. Catalog. Howard J. Fisk, Falconer, N. Y. 3-18-17

BLACK LEGHORNS

SUPERIOR QUALITY BLACK Leghorns—Eggs and chicks very reasonable; circular free. Van Driest Farms, Box R, Cedar Grove, Wis. 2-5

S. C. BLACK LEGHORNS—Winter layers, genuine egg machines. Pen 1, 15 eggs, \$2; 30, \$3.50; 50, \$5. Flock, 15, \$1; 50, \$3; 100, \$5. Ella Whitwood, Hudson, Ill. 2-5

BLACK LEGHORNS — Breeding stock. Eggs and chicks from selected prize winning matings. Circular and mating list. Scott Long, Carey, Ohio. 2-4

BLACK LEGHORNS — Cockerels, eggs from heavy laying winners; reasonable. Hatch guaranteed. Folder free. Harry Aiken, Chaseburg, Wis. 3-5

FOR SALE—BLACK Leghorn eggs. Good stock; fine winter egg layers. Also some pullets to sell. Joseph Kegel, Freeport, Ill. 3-5

IMPORTED S. C. BLACK Leghorns—220-egg strain; deep bodies, late molters, sure money-makers. Write Holland Bros., Mystic, Iowa. 3-5

S. C. RED LEGHORNS

WONDERFUL NEW S. C. Red Leghorns; coming breed; catalog free. Welday (Originator-Introducer), Seville, Ohio. 2-4

S. C. RED LEGHORNS—Color and type excellent; no Sussex blood. Eggs, \$3 per 15. H. Christiansen, Elma Center, N. Y. 3-5

BLACK MINORCAS

SINGLE COMB BLACK Minorcas—cockerels, breeders, eggs (Northup Strain). Table Egg Farm, Lookout, Pa. 12-3

SINGLE COMB BLACK Minorca eggs for hatching, at bargain prices. Booklet free. L. C. St. John, Waynesville, Ohio. 1-3

ROSE COMB BLACK Minorcas. Exhibition and utility stock, and eggs for hatching at all times. Send for our large catalog. G. A. Clark, Seymour, Ind. 6-17-17

ROSE COMB BLACK MINORCAS—Trapped; Indianapolis winners; eggs, \$2 setting. O. M. Allen, Butlerville, Ind. 2-4

ROSE COMB BLACK Minorcas exclusively; stock; eggs. Beller's Minorca Farm, Kilibuck, Ohio. 2-4

GIANT S. C. BLACK Minorcas — Good stock, heavy laying strain. Pen 1, 15 eggs, \$3; 30, \$5; 50, \$8. Flock, 15, \$1.50; 50, \$4; 100, \$7. Ella Whitwood, Hudson, Ill. 2-5

CHAMPIONSHIP ROSE COMB Black Minorcas. Stock and eggs. Reliable Poultry Farm, Springfield, Minn. 2-4

BLACK MINORCA EGGS for hatching, from large, strong, vigorous stock; heavy layers. Henry Wallis, Delavan, Wis. 3-5

FOR SALE—CHOICE S. C. Black Minorcas. E. DuPont, Houghton, Mich. 3

HATCHING EGGS—MY first prize pen, S. C. Black Minorcas; setting, \$1.50; 100, \$8. Stock guaranteed. F. P. Werner, Sleepy Eye, Minn. 3-5

WINNERS AT PANAMA and official 200-egg strain, National egg-laying contest, Missouri, up to 272. H. A. Kultz, Burlington, Wis. 2-18-17

ROSE COMB BLACK—Pen headed, second cockerel, Coliseum, 1917; eggs. Jim H. Howell, Sharon, Wis. 3

ROSE COMB BLACK Minorcas exclusively. Northrup strain. Eggs, \$2 per 15; \$10 per 100. J. R. W. Deyo, New Patz, N. Y. 3

DEYO'S MINORCA FARM—Single Comb Black Minorcas, bred 22 years exclusively; 15 eggs, \$1.50; \$8 per 100. B. C. Deyo, New Patz, N. Y. 3-5

SINGLE COMB BLACK Minorcas exclusively. Eggs for hatching from winners at Grand Palace, Pittsburgh and Chicago. Write for mating list. A. T. Renner, Coshocton, Ohio. 3-5

R. C. BLACK MINORCA eggs. Catalog free. Consistent show winners. Great laying strain. Jay Beswick, Berea, Ohio. 3-5

FOR SALE—S. C. BLACK Minorcas. Other business requires we reduce our selected breeders. Pullets, hens, cockerels, cocks, \$2.50 up. Last Chicago show we won 1-2 cocks, 1-3 cockerels, 2-3 hens. Pratt Bros., Glen Ellyn, Ill. 3

BUFF MINORCAS

BUFF MINORCAS—See display ad page 338. Walthalla Poultry Farm. 3-18-17

BUFF MINORCAS, SPECIALS, pens, \$15 and \$20; eggs, \$2, \$3 and \$5 per setting; chicks, 25c and up; Coliseum winners. William Williams, 1102-A West 52, Los Angeles, Calif. 2-4

EGGS FOR HATCHING—Buff Minorcas, \$10 and \$5 per 15. Utility, \$2 and \$3.50 per 15. Mrs. S. M. Applewhite, 1502 S. Presa, San Antonio, Tex. 3-5

SINGLE COMB BUFF Minorcas. Good winter layers of extra large white eggs. 15 eggs for \$2.00. Fred P. Dietz, Mt. Vernon, Ind. 3-5

WHITE MINORCAS

MEISELBACH'S SINGLE AND ROSE Comb White Minorcas; won at the great Coliseum show, 1917, 5 firsts, one third prize. Choice stock for sale; egg orders booked now. Harry Meiselbach, Melrose Park, Ill. 1-3

ROSE COMB WHITE Minorcas; winners of blue ribbons at the Chicago Coliseum, 1917; eggs for hatching. W. E. Haase, Omro, Wis. 2-4

SINGLE COMB WHITE Minorca eggs—Special quality mating, including prize winners, \$3 per 15. Farm flock, \$1.50 per 15, \$7 per 100. Fred C. Hacke, Lone Tree, Iowa. 3-5

ROSE COMB WHITE Minorcas—Size, shape and color; mating list. F. W. Schmidt, Princeton, Wis. 2-4

RICKLAND POULTRY YARD, Waynesville, North Carolina, single comb White Minorcas exclusively; eggs, \$2; cockerels, 1-4

SINGLE COMB WHITE Minorcas for utility and beauty; splendid layers, large white eggs. Eggs, \$1.75 per 15, \$4.50 per 50. E. H. Wisen, Homer, Neb. 3-5

WELLS' STRAIN SINGLE Comb Minorcas—Eggs from our Madison Square, Coliseum and State Show winners, ready to ship. Fertility guaranteed. Wells & Wells, Box 1250, Muskogee, Okla. 3-5

SINGLE COMB WHITE Minorcas exclusively. My stock has free range of farm. Eggs for hatching, \$2.50 per 15; \$4 per 30; \$16 per 100. A. L. Buzzard, Metamora, Ill. 3-5

SINGLE COMB WHITE Minorcas — 18 years a breeder. Eggs for hatching; also cockerels. State what you want. Harry Leibold, Delaware, Ohio. 3-5

MINORCAS—SEVERAL VARIETIES.

S. C. BLACK AND WHITE Minorcas won on White 3 blues at Greater Chicago Show; \$2 and \$3 for sitting. A. Kuchemann, Galena, Ill. 3

BLUE ORPINGTONS

BLUE ORPINGTONS—Dubuque, Ia., winners. Robert S. Lampert, Lena, Ill. 2-4

BLACK ORPINGTONS.

BLACK ORPINGTONS—The big winter layers; 15 eggs, \$1.50. Juanita Whitwood, Hudson, Ill. 3-5

BUFF ORPINGTONS

BUFF ORPINGTONS—Seventeen years a breeder. Best Exhibition Egg Producing Strain. Eggs or Baby Chicks. Circular free. Will Schadt, Goshen, Ind. 1-4

SUPERIOR QUALITY BUFF Orpingtons, win at the largest shows. I am conducting a \$5 cockerel sale that will interest you; also eggs for hatching. Write. Howard Schultz, Michigan City, Ind. 2-4

SINGLE COMB BUFF Orpingtons—Cook's strain; \$3 per sitting. L. R. Hammond, Irving, Ill. 3

BUFF ORPINGTONS — Hatching eggs from winners of best display at Utica, Jan., 1918. Send for mating list. Lynn A. Wollaber, Mohawk, N. Y. 3

EGGS FROM MY STRAIN of Fashion Plate Buff Orpingtons of fine exhibition color, correct type, winter laying habits, and large size at \$8 per hundred or \$3 per 15. E. B. Douglass, Lexington, Ill. 3-4

QUALITY SINGLE COMB BUFF Orpingtons, the kind that please; grown stock; guaranteed eggs, \$2, \$3, \$5 per fifteen. William Schneider, Rutland Road, Freeport, Long Island. 3-5

BUFF ORPINGTONS — One excellent mated old pen; also young utility flock eggs, \$1.50 and \$2.50 per 15. Oscar Olson, Capron, Ill. 3

BUFF ORPINGTONS—Line-bred Sunswick strain. Prices reasonable. Mrs. J. M. Craig, Paris, Mo. 3

S. C. BUFF ORPINGTONS—Consistent winners at Quincy, Ill., and Illinois State Shows, 1914-1918. Eggs from three grand pens, \$3, \$5 and \$7.50 per 15. Satisfaction guaranteed. Mating list free. A. F. Burger, Keokuk, Iowa. 3-5

BUFF ORPINGTONS — Rawnsley-Shields strain; mating list. C. S. Wells, Delaware, Ohio. 3

BUFF ORPINGTONS—Cook strain, cockerels, \$5; eggs, \$2 and \$3 per 15; chicks, \$22 per 100. S. C. Buff Orpington Farms, South Milford, Ind. 3

SINGLE COMB BUFF Orpingtons bred from imported stock. Eggs, \$2 to \$5 per setting. Get my 1918 mating list. L. B. Crew, Creighton, Neb. 3-5

BUY BUFF ORPINGTON stock, eggs, baby chicks from bonded breeders. Particulars free. International Single Comb Buff Orpington Club, Topeka, Kan. 3

BUFF ORPINGTONS—The hens that lay and pay, bred from prize winning stock. Large eggs; heavy winter layers; excellent table birds. Sittings, first pen, \$2.50; second pen, \$1.50 per 15. Hundred lots special price. Order early. Henry Robinson, Wyandot, Ill. 3-5

WANT TWO S. C. BUFF Orpington cocks, big-boned yearlings. Will trade thorough laying pullets, Agnew's famous "Wonder Winter Workers." Write quick. Twelve best pens ever mated in "Orpington," Home Agnew Buff Orpingtons. Eggs, \$1.50 to \$7.50. Robt. W. Agnew, Box 2, Winamac, Ind. 3

S. C. BUFF ORPINGTON eggs from hens that lay, weigh and pay. I paid \$20 for 13 eggs. My price from No. 1 pen, 15 eggs, \$5; No. 2 pen, 15 eggs, \$2. No. 3 pen, 15 eggs, \$1. All orders filled promptly after March 15th. Mrs. Lizzie Roebuck, Ft. Wayne, Ind., R. F. D. 14. 3

WHITE ORPINGTONS.

CLOSING OUT SALE—S. C. White Orpingtons, pullets, hens and cockerels, \$2 to \$3 each; 12 pullets and one cock for \$25. G. Keller, Mountain Home, Ark. 1-3

PRIZE WINNING SINGLE Comb White Orpingtons; great layers; eggs, \$1.50 to \$5; chicks, 25 for \$5; cockerels for sale. W. A. Burris, Bluffton, Ind. 1-3

SINGLE COMB WHITE Orpingtons, White Leghorns and Rhode Island Reds; stock and eggs of quality. A. G. Davison, Box APJ, Grand River, Iowa. 2-5

SINGLE COMB WHITE ORPINGTONS—Winners at Quincy, Ill., show, 1917; eggs for hatching; send for mating list. Herman J. Wulfmeyer, Quincy, Ill. 2-4

ALDRICH'S STRAIN—Pullets, \$2; eggs, \$1.75; choice mating, \$3. W. Pifer, Juneau, Wis. 2-3

ALDRICH AND OWENS Farm White Orpingtons; cockerels, \$3 and \$5; two \$3 cockerels, \$5; eggs, choice matings, \$2; \$7.50 per 100; free range. Sunnyside Orpington Farm, Sandwich, Ill. 2-4

WHITE ORPINGTON EGGS—Write for catalog. Elm Grove Poultry Farm, Glen Ellyn, Ill. 2-4

WHITE ORPINGTONS—WINNERS at Tri-Cities and Iowa State shows; choice pullets and other stock for sale; hatching eggs after Feb. 15; satisfaction guaranteed. L. H. DePrates, Fancier and Breeder, Route 1, Davenport, Iowa. 2-5

ALDRICH'S ORPINGTONS—Eggs, \$2, \$3, \$5. Mrs. Amos, Kendallville, Ind. 2-4

CRYSTAL WHITE ORPINGTONS—Bred for laying and size. Satisfactory hatch guaranteed. Safe delivery of chicks guaranteed. Eggs, \$3 per setting. Chicks, 20 cents each. Book your order early and secure sturdy chicks from winners. H. E. Hussey, Cedarhurst Farm, Princeton, Ill., R. 8. 2-4

QUALITY WHITE ORPINGTONS—Aldrich and S. B. Strains. Eggs, females and choice cockerels for sale. Laying or exhibition strains. Mating list. S. B. Brennan, 3140 Irving Ave., Berwyn, Ill. 2-4

CHICAGO COLISEUM WINNERS—Champion pen, Proviso, \$45. Winning cocks, \$8 up. 20 hens and 5 cocks, \$3 and \$5. Settings, \$3 and \$5. Alfred Engling, Elmhurst, Ill. 2-4

WHITE ORPINGTON EGGS, \$2. Have one pen of all blue ribbon winners. Free list. N. Roy Bowman, Albany, Wis. 2-4

THREE SINGLE COMB WHITE Orpington cockerels, got 2d, 4th, 5th at Sheboygan show, will sell for \$8, \$6, \$5. Have no use for them and have no others. William A. Frey, Sheboygan, Wis. 3

ALDRICH'S STRAIN WHITE Orpington eggs, \$1.50, 15; \$7, 100. Circular. Miss Dallah M. Moon, Route 2, Martinsville, Ohio. 3-5

SINGLE COMB WHITE ORPINGTONS—Great, large, low down, massive type, extremely white, grand winter layers, grow like weeds. Eggs, 15, \$1.50; 50, \$4.00; 100, \$7.00. Lee W. Morgan, Independence, Ind. 3-5

SINGLE COMB WHITE Orpington eggs for hatching, utility, \$2 per 15, \$3.50, 30; \$10, 100. Mated pens, \$3, 15; \$5, 30. Stock for sale. R. E. Sandy, Stuart's Draft, Va. 3

KELLERSTRASS AND ALDRICH strains; laying pullets, \$3.50; cockerels, \$5; selected pens, 4 pullets and 1 cockerel, \$20. F. S. Rassner, 3609 N. Kedvale, Chicago. 3

EGGS! EGGS! EGGS!—Strongly fertile, big, brown and fresh from the nest; 200 to 261-egg bred White Orpingtons. Fill your incubator, set your hens. Selected eggs, 15 cents each, \$12.50 hundred. Prompt shipment. T. P. Dougherty, Route A-102, Tyrone, Pa. 3

WHITE ORPINGTON EGGS from carefully selected free range Kellerstrass stock. Extra good winter layers. Will guarantee 80 percent fertility. Prices, \$2 and \$3 per setting. Howard Levey, Schenectady, N. Y. 3

PARKER'S PEDIGREED WHITE Orpingtons. Trapped 200-egg hens; 319-egg male. Catalog. J. S. Parker, Route 4-J, Plain City, Ohio. 3-4

WHITE ORPINGTON—Aldrich strain; 15 eggs, \$3; 30 eggs, \$5. G. W. Wiencke, Route 3, Fieldon, Ill. 3-5

BUY WHITE ORPINGTON stock, eggs, baby chicks from bonded breeders. Particulars free. International Single Comb White Orpington Club, Topeka, Kan. 3

QUALITY WHITE ORPINGTONS—Bred to lay with quality to win at Northwest largest shows. Guaranteed eggs, \$2 to \$5 per fifteen. Write for mating list and winnings. W. R. Williams, Box L-646, Lake Crystal, Minn. 3-5

ALDRICH AND BYERS STRAINS S. C. White Orpingtons. Eggs for hatching, \$2, \$5 and \$7 per setting. Write for mating list. A few good cockerels left. R. W. Miller, Morton, Ill. 3-4

QUALITY WHITE ORPINGTONS—High egg record strain. Eggs, \$3. Geo. Layman, Greenville, Ill. 3-5

SINGLE COMB WHITE Orpington eggs from my famous winter layers, \$2.50 per 15. Joseph Stokes, Route 6, Canton, Ill. 3-4

ORPINGTONS—SEVERAL VARIETIES

SINGLE COMB ORPINGTON Eggs—Blacks of real good quality. Whites of genuine Aldrich Strain. Prices, \$2, \$2.50 and \$3 for fifteen. No stock. Cauble's Poultry Farm, Phenix, Mo. 2-4

LONG'S ORPINGTONS — Buff, Black, White. None better. Winners everywhere. Specialty thirteen years. Eggs, \$10 per 100 and upward. Stock for sale; reasonable. E. M. Long, Box A, Osceola, Ind. 2-4

BLUE AND BUFF Orpingtons—Stock and eggs for sale. Prices reasonable. Jess Jessen, Strawberry Point, Iowa. 3-5

ORPINGTONS—S. C. BUFF and White; first white hen, Wisconsin State Fair, 1917. Owen Farms Buff eggs, 15, \$2; 30, \$3.50. Bert Shaw, Elizabeth, Ill. 3

POLISH.

WHITE CRESTED BLACK Polish; silver cup winners, 2nd high scoring pen at Capron show; 15 eggs, \$2.50. Oscar Olson, Capron, Ill. 3

TWO AND THREE DOLLARS, fifteen; seven varieties Polish eggs, postpaid. L. Leavitt, Smithfield, Ill. 3

WHITE CRESTED BLACK Polish and White Crested Plain White Polish. Write for circular. Rev. Charles Pfeiffer, Melrose, Minn., Route 3. 3-5

RED CAPS.

ENGLISH RED CAPS exclusively—Sixteenth year. Fifteen eggs for hatching, \$3.00; thirty eggs, \$5.00. Larger orders at lower rates. Stock for sale. Satisfaction guaranteed. H. G. Weidenfeller, Mineral Point, Wis. 3-5

RHODE ISLAND REDS

ROSE COMB REDS—Bred to lay and win; won seven firsts at Sioux City and Mitchell shows. Write me your wants. Joseph Roming, Alcester, S. D., R. 4. 1-3

\$4 PER 100 EGGS—Welday's 220-egg record, real red S. C. Reds; none better; catalog. Welday, Seville, Ohio. 2-4

ROSE COMB RHODE Island Reds—Poorman's 200-egg laying strain; farm raised, vigorous stock; eggs, \$2 per 15, \$8 per 100; chicks, \$20 per 100. Mrs. J. A. Brown, Route 6, Creston, Iowa. 2-4

REDS, BOTH COMBS, eggs, chicks, breeders; catalog free. Riverdale Poultry Farm, Riverdale, N. J. 2-4

BUY HATCHING EGGS from tried-out pens bred for exhibition, laying, breeding; Winnebago Reds led their variety in 1917 year's contest, Leavenworth, Kansas. Write us for prices. Winnebago Poultry Yards, Omro, Wis. 2-4

HIGH-CLASS SINGLE COMB Red eggs. Chas. Sherman, Freeport, Ill. 2-5

SINGLE COMB REDS, stock and eggs. Frank J. Martin, Mineral Point, Wis. 2-4

S. C. REDS—Good stock and the best of winter layers. 15 eggs, \$2; 30, \$3.50; 50, \$5; 100, \$8. Ella Whitwood, Hudson, Ill. 2-5

S. C. R. I. REDS—Good breeding males, Scranton Strain line-bred for last ten years, win wherever shown. Eggs in season. Setting, \$15. Satisfaction guaranteed. H. Vandepels, Zeeland, Mich. 2-4

SINGLE COMB REDS—Hatching eggs from large uniformly dark red stock, bred for winter laying. Vibert-Owens cross. \$2 per 15. Satisfaction guaranteed. O. G. L. Lewis, Paoli, Penn. 2-4

S. C. REDS—First prize winners at Chicago and Milwaukee. Illustrated circular free. George Demlow, Elgin, Ill. 2-3

S. C. REDS—Quality stock only, of size, color and type; winners and layers. Eggs, \$3. R. N. King, Kendallville, Ind. 3

R. I. RED EGGS, \$3 to \$5 per sitting. special prices on hundred lots. John G. Richardson, Elliott, Ill. 3-5

S. C. REDS—Wymore and Hickman winners. Stanley Kaura, Wymore, Neb. 3-5

LONG'S SINGLE COMB REDS—Winners at Sioux City, Des Moines, Omaha; foundation stock direct from Scranton; ten pens mated; egg prices reasonable. Write for mating list. B. S. Long, Little Sioux, Iowa. 3-5

EGGS FROM PRIZE WINNING Rose Comb Reds; 3 grand matings; true Reds; \$2, \$3 and \$5 per sitting. Geo. J. Seifert, Mt. Vernon, Ind., Route 7. 3-5

"MAHOGANY" STRAIN SINGLE Comb Reds—Carefully bred to produce handsome strong birds. None better in the country. Eggs, \$2, \$2.50 and \$3 per 15. W. E. Howard, 1406 Hayes St., Ottawa, Ill. 3-5

SINGLE COMB REDS—Hatching eggs, \$2 for fifteen. John B. Sheets, Hagerstown, Md. 3-4

S. C. REDS of quality. Large-boned range raised winners and layers. Eggs, \$2 per 15. Robert Bolton, Virden, Ill. 3-5

SINGLE COMB REDS—Pure-bred, dark red; setting of 15, \$1.50. Indian Runner duck eggs; setting, \$1.50. Mrs. Edgar Beach, Stillman Valley, Ill. 3-5

SINGLE COMB REDS—Bean strain; large bone, dark red. Eggs, \$2 for 15. Henry R. Snapp, Greeneville, Tenn. 3-5

SINGLE COMB RHODE ISLAND Reds—Hatching eggs and day-old chicks. Pen No. 1, headed by male from the world's champion Red hen No. 1125, record 309 eggs in 365 consecutive days, mated with him are fifteen females, eleven females from a 200-220-egg strain and four choice ones. Hen No. 1997, record 244; hen No. 5979, record 239. Two pullets, dam record 228; sire's dam, 247. Eggs from these four, \$1 each or \$12 for fifteen eggs. Chicks, \$1.50 each. From the eleven females, \$5 for fifteen eggs. Chicks, 75c each. Pen No. 2, headed by male from a 200-220-egg strain, contains fifteen fine females, all heavy layers. \$3 for fifteen eggs. Chicks, 40c each. Pen No. 3, headed by male from a 200-220-egg strain, contains fifteen choice pullets. Eggs, \$2 for fifteen. Chicks, 25c each. Ben Peters, 814 W. 3rd St., Davenport, Ia., 3

ROSE COMB RED eggs, Longfield strain; recent winnings, first cock Greater Chicago. Free circular. Thomas J. Britton, Kentland, Ind. 3-4

SINGLE COMB R. I. REDS—Farm reared, with that rich red color, from best blood lines. Eggs, \$3 per 15. Order from this ad. Curt Dorendorp, 2047 Dayton St., Chicago, Ill. 3-5

ROSE AND SINGLE COMB brilliant dark Reds that are fine layers. Geo. A. Kersten, Washburn Park, Minneapolis, Minn. 3-4

SINGLE COMB REDS—Eggs from my best mating, 15, \$2; 30, \$3.50; 50, \$5; 100, \$9. Fred G. Keller, Millersport, Ohio. 3-5

TOMPKINS' MAMMOTH S. C. Reds—Healthy, rich, brilliant red; excellent layers. Eggs that hatch, 100, \$8; 50, \$4.50; 30, \$3; 15, \$2. Strong, vigorous chicks, 100, \$16; less than 50, 18 cents each. Albert Bonsall, R. 4, Salem, Ohio. 3-5

240-EGG STRAIN Rhode Island Reds—Both combs. 21 years a breeder. Stock and eggs for sale. Stamp for reply. E. S. Piper, Bay View Farm, North Haven, Maine. 3-5

R. C. R. I. REDS—Indianapolis and Chicago winners. Stock and eggs from pens as good as the best. Dr. Hallam, Mooresville, Ind. 3

SINGLE COMB REDS—Poorman's 200-egg strain. Eggs, \$2.00 per fifteen. Few hens, pullets. Wm. Dinkeloo, Holland, Mich. 3

S. C. REDS—Won every first at three shows. Mating list free. S. R. Engstrand, Steger, Ill. 3-5

RHODE ISLAND WHITES

ORDER EGGS AND CHICKS from hens that lay thru zero weather; Cook's Paramount strain R. I. Whites are bred that way; both combs. Mrs. Ernest Cook, Route 8, Cecilia, Ky. 2-4

PATRICK'S RHODE ISLAND Whites won the blues in competition with the best Whites in the world. Write for circular. J. T. Patrick, R. 4, N. Vernon, Ind. 1-3

EXCELSIOR RHODE ISLAND Whites—The oldest and best line bred strain in the world. Great winter layers and exhibition birds; literature free. Mrs. C. M. Vertrees, Box C, Cecilia, Ky. 2-4

HEADQUARTERS FOR ROSE Comb Rhode Island Whites. I am the oldest Breeder of this breed. Eggs and stock for sale from this wonderful laying strain. Catalog free. C. A. Foster, Colonial Poultry Yards, Akron, Ohio. 1-6

SINGLE COMB RHODE Island Whites—Eggs from pen of famous layers. Mid-winter records 23 to 25 eggs in 30 days. \$2 per 15. O. G. L. Lewis, Paoli, Penn. 2-4

STOCK FOR SALE—From the great Rhode Island White farm; \$2 each; \$6 per trio; \$10 per pen; both combs. Henry Eichelmann, Waterloo, Ill. 1-3

RHODE ISLAND WHITES—Rose Comb; correct shape. They are white! Stock for sale. Satisfaction guaranteed or money back. C. A. Wheeler, Cuba, N. Y. 1-3

EGGS AND BABY CHICKS from trapped Rhode Island Whites, winners at Chicago, Madison Square Garden, Panama Exposition, Pittsburgh, Buffalo, Palace shows. G. S. Boller, Little Valley, N. Y. 3-4

SINGLE COMB RHODE Island Whites—Heavy winter layers; standard weight; snow white plumage; \$2 for 15 eggs. Mrs. Fred Baynes, Salem, Ind. 3

"WHITE QUEEN" Rhode Island Whites—Rose and Single Combs; 15 eggs, \$2 and \$5; 30, \$4 and \$9; 50, \$5.50 and \$12; 100, \$10 and \$22. Rose Comb hens, \$2 up; Single Comb cockerels, pullets, \$3, \$5 up. Fred Havig, Route 2-A, Osage, Iowa. 3

THE GREAT RHODE ISLAND White farm, Rose and Single Comb eggs, \$1.50 per 15 and up. Also chicks. Catalog free. Henry Eichelmann, R. 4, Waterloo, Ill. 3-5

ROSE COMB RHODE Island White cockerels, hens and pullets, \$2, \$3, \$5 each, from prize winning strains. Eggs, 15, \$2; 50, \$5; 100, \$9. Col. Warren Russell, Winfield, Kan. 3-6

VERTRESS ROSE COMB Rhode Island Whites—Eggs, \$2, 15; \$5, 50; \$8, 100. Oak Grove Farm, Route 34, Box A, Peoria, Ill. 3-5

BARRED PLYMOUTH ROCKS

BARRED ROCK COCKERELS for sale—Choice, selected. E. B. Thompson's strain direct. W. H. Settle, Gridley, Ill. 12-3

THOMPSON'S RINGLET BARRED ROCKS direct and Mammoth Light Brahmas eggs; \$3 per 15; Rock cockerels, \$5. Circular free. Satisfaction guaranteed. Lackawanna Poultry Farm, North Water Gap, Pa. 1-3

BEAUTIFUL BRED-TO-LAY Barred Rocks, Parks' strain exclusively (from best pens direct). Large boned, vigorous stock. Eggs, 15, \$2; 30, \$3.50; 50, \$5; 100, \$9. Cockerels, \$3, \$4, \$5 each. W. G. Meradith, Danvers, Ill. 1-3

BARRED PLYMOUTH ROCKS—Hatching eggs from trap-nested stock for sale. Flynn Poultry Farm, Arlington Heights, Ill. 1-3

SPECIAL VALUE BARRED Rock cockerels, \$2, \$3. Superb quality, \$5. Birds that will please. Your satisfaction guaranteed by approval-shipment plan. Clarence Steckel, White Hall, Ill. 1-3

BARRED ROCK. EGGS for hatching. Bradley and Parks Strains. Harry Hough, Hartford, Mich. 2-4

PARK'S STRAIN BRED-TO-LAY Barred Rocks exclusively; direct from Park's best pedigreed pens; free range raised; large, vigorous, heavy-laying birds. Eggs, 15, \$2; 30, \$3.50; 50, \$5; 100, \$9; satisfaction guaranteed. M. W. Weaver, Dillsburg, Pa. 2-4

BARRED ROCKS EXCLUSIVELY—Heavy laying strain, Park's direct; 15 eggs, \$2; 50 eggs, \$5, and 100 eggs, \$9. Mrs. E. Glabe, Chatsworth, Ill. 2-4

BARRED ROCKS, 200-egg strain, hatching eggs, \$1.50 for fifteen; \$7 per 100; cockerels, \$5 each. Winterlaid Egg Farm, Dahlgren, Ill. 2-4

\$4 PER 100 EGGS—Welday's Laymore Barred Rocks; catalog. Welday, Seville, Ohio. 2-4

RINGLET BARRED ROCK Chicks—14 cents. Paul Bickel, 32 Tompkins St., Columbus, Ohio. 2-4

FAIRFIELD'S BIRDS WON Storrs International egg-laying contest with 2,119 eggs; won state cup, 1917 and 1918. 1,000 trapped breeders mated to pedigreed males line bred for eggs and beauty. Hatching eggs and chicks; illustrated circular free. Fairfields Farms, Short Falls, N. H. 2-4

EGGS FROM E. B. THOMPSON'S Imperial Barred Rock strain, 15 for \$2; 100 for \$10; satisfaction guaranteed; good cockerels reasonable. W. H. Settle, Gridley, Ill. 2-5

BRED-TO-LAY Barred Rocks, Park's strain direct; eggs, \$1 per 15; \$6 per hundred; Park's strain cockerels, \$3 and \$5. J. C. Scrivner, Dahlgren, Ill. 2-3

E. B. THOMPSON'S "RINGLETS" direct; extra choice cockerels, females, eggs; big, vigorous stock, bred from winners; best New York winning blood from proven breeders. Have spared neither pains nor money. William Huckle, Waverly, N. Y. 2-4

HOLTERMAN'S "ARISTOCRAT" Barred Rocks direct. Pullet mating; eggs for hatching, \$3 per 15, or 30 for \$5. Mrs. Ella D. Ross, Newton, Ill. 2-3

PARK'S BRED-TO-LAY Barred Rocks—Get eggs from winter layers; fertility guaranteed; 15, \$2; 30, \$3.50. A. Hofmeyer, Route G, Box 28, Indianapolis, Ind. 2-4

WYLLMACROFT BARRED Rocks are money makers. Reared on free range for size and heavy egg production. Do you want producers? Book orders for eggs now. Mrs. Will Bugg, Assumption, Ill. 2-4

EGGS FOR HATCHING—Parks' bred-to-lay strain. Fine stock. 15, \$2; 30, \$3.50; 50, \$5.50; 100, \$10. A. Amidon, 6041 South Winchester Ave., Chicago, Ill. 2-4

RINGLET ROCK EGGS, \$1.25 to \$5 per 15; 100, \$6; both matings and flock farm raised. V. I. Hostetler, Route 5, Napanee, Ind. 3-5

BARRED ROCK EGGS for hatching, \$1.50 per 15, \$10 per hundred. Mrs. Henry Glafka, Walnut, Ill. 3-5

BARRED ROCKS — LARGE, vigorous, clearly barred, yellow legs and beak, from Parks' heavy laying strain; eggs, 15, \$1.50; 50, \$4; 100, \$7. B. F. Morgan, Independence, Ind. 3-5

BRADLEY-PARKS' STRAIN — Beauty, size, egg machines; eggs, \$2 per 15. Norval Lewis, Carrsville, Ky. 3-4

BAYER'S PREMIER BARRED Rocks—Eggs, \$5 per 15, \$25 per 100. The winning male line only. Chas. Bayer, Urbana, Ohio. 3-5

BARRED ROCK EGGS for hatching from birds that took every first prize in exhibition class, silver cup, best display, and specials at Lafayette, Ind., January, 1918. Martin Lind, Crawfordsville, Ind. 3-5

E. B. THOMPSON'S STRAIN Barred Rock eggs, \$1.50, 15; \$7, 100. Circular. Miss Delilah M. Moon, Rt. 2, Martinsville, O. 3-5

QUALITY BARRED ROCK eggs, Thompson strain; 15 eggs, \$2; forty-five, \$5; fertility guaranteed. Hazel Eaton, Ottawa, Ill., Route 31. 3-4

BARRED ROCK EGGS that will produce winners. Write T. A. Somdal, 1430 Carolina Ave., Springfield, Ill. 3-5

EGGS—270-EGG LINE—None better. Catalog. W. W. Kulp, Box 70, Pottstown, Pa. 3-5

EGGS FROM HEAVY laying utility stock, \$5 per 100; prompt shipments. Tyrone Poultry Farm, Fenton, Mich. 3-5

BRED-TO-LAY BARRED Rocks—Park's and Mittendorf's strains. Eggs, 15, \$1.25; 30, \$2.25; 50, \$3.50. G. A. Stahmer, Hoyleton, Ill. 3

"ARISTOCRAT" BARRED ROCKS direct. Eggs, 15, \$2.50. Order early. M. A. Zahl, Mokenca, Ill. 3

EGGS FREE — Hall's famous Barred Plymouth Rocks. In order to induce more poultry, I am going to reduce the price of eggs from my famous winning line of cockerel-bred Barred Rocks, including World's Fair and champion Chicago winners, to \$5 per 15 eggs. With every order of \$5 I will give five free eggs from the daughters of "Liberty," egg record 294 eggs in one year. Several of those yards are headed by 12-16, cocks, sons of champion female, Chicago Coliseum. I have formerly sold at \$10 to \$20 per 15. Everything goes this spring after March 1st, \$5 per 15, with five free eggs, giving you 20 eggs in all. 19 years line-breeding on my farm for size, eggs, production and exhibition quality has produced a line unexcelled by any breeder in America. We are prepared to take care of thousands of orders promptly. You may order any amount you wish; price is the same; with every \$5 sent for eggs I will send free five eggs. Catalog free. Luther J. Hall, Box 7, Kenney, Ill. 3-5

BARRED ROCKS—Special mating; eggs, \$3 per 15; exhibition, \$5 per 15; utility, \$1.50 per 15, \$8 per 100. Perl Baughn, "Lone Oak" Farm, Washington C. H., Ohio. 3-5

BOWERS' PREMIUM BARRED ROCKS—Winners at Chicago Coliseum show, 1914-1915-1917; Milwaukee, 1916; Indianapolis, 1917. Stock sold on approval; eggs for hatching; cockerel mating only. Fred Bowers, Woodstock, Ill. 3-4

EGGS FOR HATCHING from pure-bred Barred Plymouth Rocks (Park's strain) and bred to lay; \$2 per 15. Edwin F. May, Bainbridge, Ohio. 3

BARRED ROCK COCKERELS, \$3 and \$5 each. Dorothy Devine, Deer Grove, Ill. 3

PARK'S BARRED ROCKS—Prize winning 210-egg bred. If you want delicious early fryers, persistent layers and handsome breeders and be satisfied as an army of old customers are, order my hatchable eggs and livable chicks. Write Elizabeth Woodmansee, Highland, Ohio, today for folder and buy superior stock. 3

RINGLET BARRED ROCKS—Eggs, 15, \$1.25; 30, \$2.50; 50, \$3; 100, \$5. E. P. Churchill, Allerton, Iowa. 3-5

BUY BARRED ROCK stock, eggs, baby chicks from bonded breeders. Particulars free. International Barred Plymouth Rock Club, Topeka, Kan. 3

FOR SALE — STOCK AND EGGS from Thompson's Barred Rocks. Henry Hilberg, East Moline, Ill. 3

BARRED ROCKS — E. B. Thompson's "Ringlets" direct; eggs from my best matings, 15, \$2; 30, \$3.50; 50, \$5; 100, \$9. Fred G. Keller, Millersport, Ohio. 3-5

BARRED ROCKS—Vigorous, heavy laying breeders on range. Eggs, 15, \$1.50. Mont Lockart, Vandalia, Ill. 3-5

WRIGHT'S LAYING STRAIN Barred Rocks, trapnested, vigorous, carefully selected; eggs for hatching, \$2 for 15. Wright Poultry Yard, Peebles, Ohio. 3-4

HATCHING EGGS—Quality product at utility prices. Send for circular. Chilson's Poultry Yards, Northampton, Mass. 3

RINGLET BARRED ROCKS—Eggs for hatching, \$2 per 15; \$3.50 per 30. Wm. P. Klemm, Lombard, Ill. 3

BARRED ROCK HATCHING eggs from farm range flock; \$1.25, 15; \$6, 100; thousand rates. Also baby chicks. W. H. Hassebrock, St. Peter, Ill. 3-5

BARRED ROCKS—BRADLEY strain; free range, \$5 per 100, not prepaid; 15 eggs, \$1.25, prepaid. Mrs. Ella Hiel, Avon, Ill. 3-5

BARRED ROCKS—RINGLET strain, 1918 record at Milwaukee Auditorium show, 1st and 4th cockerel; Oconomowoc, 1st and 2d, only two birds entered. Exhibition and breeding cockerels for sale. Eggs, \$3 per 15 or \$5 per 30. All stock guaranteed; if not satisfactory, return at our expense. Ed Martin, Oconomowoc, Wis. 3-5

RINGLET BARRED ROCK eggs from special exhibition matings; birds of great size and quality. Pens 1 and 2, 15, \$5; 3 and 4, 15, \$3; 30, \$5. Mating list. Mrs. J. M. Kemp, Kenney, Ill. 3-5

BARRED ROCK EGGS from stock with size, shape and color. Good laying strain; 15, \$1.50; 50, \$4.00. E. B. Murphy, Box 4, Carmel, Ind. 3-5

PROLIFIC BARRED ROCKS — Large brown eggs from valuable matings; \$1.50 per 15; \$6 per 100. C. A. Newcomb, Celina, Ohio. 3-5

B. P. ROCK EGGS, \$1.50 per 15. Matt Koch, Golconda, Ill. 3-4

RINGLET BARRED ROCK eggs cheap. Dixie Poultry Yards, Beaumont, Texas. 3-4

BARRED ROCK EGGS by the setting, hundred or thousand from splendid layers. L. F. Thompson, Hope, Ind. 3

BUFF PLYMOUTH ROCKS

HEISER'S ALL-GOLD strain Buff Rocks of quality, at \$2, \$3, \$5 and \$10 each. J. A. Heiser, Fisher, Ill. 1-3

BUFF ROCKS OF QUALITY—Stock and eggs. Moore & Son, Holland, Mich. 3

HERTZ'S BUFF ROCKS win annually at Madison Square Garden, Syracuse, Palace, New York, and Hagerstown, Md. Stock and eggs. Catalog free. Joseph H. Hertz, Box A, Hanover, Pa. 1-3

THOROBRED BUFF Plymouth Rock cockerels, at \$2, \$3.50 and \$5 each, and eggs, \$1.50 and \$2 per 15. R. N. Boose, Winston-Salem, N. C. R. 2. 1-3

BUFF ROCK COCKERELS, \$2 to \$5 each; well bred and carefully selected. Mrs. Lucy Eminger, Gibson City, Ill. 2-3

BUFF ROCK BREEDERS—Improve your flock with one of our bred-to-lay cockerels; winners at Boston, Madison Square; cocks, hens, pullets. Field, Somers, Conn. 2-4

BUFF ROCKS—A few fine cockerels left at \$2. Eggs from select pens, \$1.50 and \$2 for 15. Mrs. H. T. Price, Route 6, Elkhorn, Wisconsin. 2-4

KRAMER'S BUFF ROCKS win best display at recent Chicago Coliseum and Milwaukee shows. If desirous of obtaining eggs from the best Buff Rocks, send for my free illustrated catalog. Frank W. Kramer, Fort Atkinson, Wis. 3

BUFF ROCKS—LAYERS, winners. Eggs from pens headed by first cock and first cockerel, champion male, at Greater Chicago show, Jan., 1918. Reasonable. Circular free. W. E. Russell, Wautoma, Wis. 3-5

BUFF ROCKS—BEST pens of selected layers; fifteen eggs for \$1. H. G. Liddle, Wever, Iowa. 2-7

BUY BUFF ROCK STOCK, eggs, baby chicks from bonded breeders. Particulars free. International Buff Plymouth Rock Club, Topeka, Kan. 3

BUFF ROCKS—WINNERS at Wisconsin Poultry Show, first, second, third pullet, third cockerel. Eggs, \$2.50 per 15. H. Vitense, 628 Oakridge, Madison, Wis. 3-5

BUFF AND COLUMBIAN Plymouth Rocks—Good color, type, etc.; good layers. Eggs, \$3 per 15. James W. Elliott, Decatur, Ill. 3-5

BUFF ROCKS—Solid golden buff color, true Rock type. Heavy layers. Winners at Chicago, New York, St. Louis, Boston. Choice cockerels. Eggs from prize matings at \$5 and \$3 per setting. Cecelia Jungels, Lemont, Ill. 3

BUFF ROCK EGGS—Farm range, large; great laying strain; \$1.50 per 15; \$4.50 per 50; \$8 per 100. Mrs. W. Vickerman Riggs, Franklin, Ind. 3-5

COLUMBIAN PLYMOUTH ROCKS

IF YOU WANT proven 200-egg strain Columbian Rocks that are fit to show, write J. M. Jones, Hornerstown, N. J. 2-4

COLUMBIAN ROCK EGGS from my grand pen of bred-to-lay strain. Jacob Stellrecht, Lancaster, N. Y. 3

COLUMBIAN ROCKS—200-egg strain and New York Garden winners. Write for prices—eggs and stock. T. J. Enslin, Hackettstown, N. J. 3

COLUMBIAN PLYMOUTH ROCKS—Farm raised stock and eggs for sale. Oren Anthony, Louisville, Ohio. 3

PARTRIDGE PLYMOUTH ROCKS

ILLINOIS STATE SHOW winners. Catalog free. Stock, \$3 to \$5; eggs, \$2.50 per 15; prepaid. John Hacker, Dept. A, Marissa, Ill. 1-3

PARTRIDGE ROCK COCKERELS and pullets for sale. Satisfaction guaranteed. Ray Finders, Ferguson, Iowa. 1-3

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 380. 5-15-tf

EGGS FROM HIGH-CLASS Partridge Rocks. Paul Wurtzel, Freeport, Ill. 2-5

PARTRIDGE ROCKS for sale—Noftzger Strain. Good cockerels and eggs. Write for mating list and prices. Geo. Miller, Nappanee, Ind. 2-4

PARTRIDGE PLYMOUTH ROCKS—"Winners in five states." Eggs for hatching, \$2, \$3, \$5 per 15; baby chicks, 25c. Mammoth Poultry Yards, Box A-31, Tahlequah, Okla. 2-4

PARTRIDGE ROCKS—Priced reasonable. State Fair winners five years. Frank Neudecker, Sleepy Eye, Minn. 3-5

EGGS FROM PRIZE winning Partridge Rocks. Write Hilltop Poultry Yards, Box 203, Zealand, Mich. 3

WHITE PLYMOUTH ROCKS

WHITE ROCKS—Pedigreed, trapnested hens; records, 200, 205, 208, 210, 212, 214, 216, 225, 240, 252 eggs; cockerel out of 254-egg hen. Eggs, chick. Circular. This blood will help your flock. Dr. Prudhomme, Thurmont, Md. 1-3

WHITE ROCKS—Pure White from trapnested stock; 222-egg record. Henry Leitschuh, Sleepy Eye, Minn. 1-3

WHITE ROCKS—Fishel strain direct; choice stock breeders and utility; farm range; booking orders, eggs and chicks; price list free. Whiteview Poultry Yards, Mishawaka, Ind. 1-3

WHITE ROCK COCKERELS, direct from Poorman's trapnested, 200-egg strain, \$3 to \$5; eggs, \$2 per 15; chicks, 25 cents each. Mrs. Earl Frost, Route 2, Palatine, Ill. 2-4

WHITE ROCKS—A few cocks left; eggs for hatching. Geo. F. Conrad, Amanda, Ohio. 2-4

LANDIS WHITE ROCKS, winners at Indianapolis, Chicago, for past twenty years; extra fine show and breeding birds at fair prices; mention what you want from this ad; none better; most please; four select pens; eggs, \$5 per 15. John Landis, Edinburg, Ind. 2-7

WHITE ROCKS—U. R. Fishel strain direct; eggs of great layers, \$1.50, 15; \$3, 30; \$4, 50; \$8, 100; \$16, 200. Orders filled promptly. Henry Heitkamp, New Bremen, Ohio. 2-4

WHITE ROCKS THAT LAY at the contests as well as at home. "Watch the Contest Reports." For the best in White Rocks write Dr. Louis A. Heely, St. Libory, Ill. 1-3

WHITE ROCKS—Eggs from large, vigorous, pure stock, \$2 per fifteen; satisfaction guaranteed. Bert Rhody, Royal Centre, Ind. 3-4

WHITE ROCKS—EGGS for hatching that will hatch. One price only. Free circular. Guaranteed service. Hoch & Frederick, Box O, Chambersburg, Pa. 3-6

EGGS! EGGS! EGGS!—Strongly fertile, big, brown and fresh from the nest; 200 to 261-egg bred White Rocks. Fill your incubator; set your hens. Selected eggs, 15 cents each; \$12.50 hundred. Sturdy baby chicks, 20 and 40 cents each. Prompt shipment. T. P. Dougherty, Route Star 202, Tyrone, Pa. 3

WHITE ROCKS—BARGAINS in stock and eggs from 200 to 300-egg hens. M. A. Stockley, Winnetka, Ill. 3

NUZUM'S WHITE PLYMOUTH Rocks are good winter layers. Fifteen eggs for hatching for two dollars. M. M. Nuzum, Anderson, Ind. 3-5

WHITE PLYMOUTH ROCKS — Owen Farm's strain pure. Few settings of eggs for sale from high-class matings. Send for mating list. Frank E. Palmer, Sparta, Ill. 3

WHITE ROCKS — Owen Farms Strain. Free range. Eggs, \$2 per fifteen. A. E. LeGendre, Meriden, Conn. 3-4

WHITE ROCKS — POORMAN'S Class A cockerel mated to choice Fishel stock. Eggs, 15 cents each, \$10 per 100; pullets, \$2 each. W. H. Barnfield, Charleston, Ill. 3

BUY WHITE ROCK stock, eggs, baby chicks from bonded breeders. Particulars free. International White Plymouth Rock Club, Topeka, Kan. 3

WHITE ROCKS—FISHEL strain. Eggs, \$1.25 per 15. Elmer Schumaker, Tamalco, Ill. 3-5

PULLETS AND COCKERELS—A beauty flock of grand breeding birds from trapnested, pedigreed, high record egg layers. Choice selected birds, \$5; trios, pens. Write now for information. T. P. Dougherty, Route 202, Tyrone, Pa. 3

EGGS, \$1.00 PER 15; \$6.00 per 100, from our bred-to-lay and bred-to-win White Rocks. George Rigler, Bentonport, Ia. 3-5

WHITE ROCKS—CHOICE breeding cockerels, hatching eggs and baby chicks. Thoroughbred Airedale pugs; parents registered. H. J. Collman, Milan, Ohio. 3

LADY SHOWYOU STRAIN White Rocks. C. B. Hargesheimer, North Vernon, Ind. 3

PLYMOUTH ROCKS—SEVERAL VARIETIES.

MAIN POULTRY YARDS—Breeders of high-class Barred and White Rocks. Winners at Wisconsin leading shows. Eggs, \$2.50 and \$5 per fifteen. John Maas, Hartford, Wis. 3

SILKIES

SILKIES — 14 FEMALES, 9 males, \$40. Lucy Bailey, Albion, Ill. 2-4

SPANISH

WHITE FACED BLACK SPANISH cockerels for sale; winners Chicago Coliseum. Tyrone Poultry Farm, Fenton, Mich. 2-4

FOR SALE—WHITE FACED Black Spanish eggs, 15 for \$1.50; 30 for \$2.75; 100 for \$6. Good stock. Lonella E. Jaqua, Port and, Indiana. 2-4

WHITE FACED BLACK Spanish—Stock and eggs. Winners Indiana shows—Newcastle, 1913; Marion, 1914; Goshen, 1915; Logansport, Marion, 1916; Indiana State Fair, 1916, 1917; Greater Chicago Show, 1918. J. R. Galloway, Elwood, Ind. 2-5

EGGS—COLISEUM WINNERS, \$3 per 15, delivered; other pens, 10c per egg. Tyrone Poultry Farm, Fenton, Mich. 3-5

WHITE FACED BLACK Spanish—Great layers. Eggs for hatching. Also Buff Orpingtons. Write F. T. Walker, Blanchester, Ohio. 3-5

RED SUSSEX

HATCHING EGGS from extra nice Red Sussex chickens; great layers. E. H. Hayward, Fairbank, Iowa. 3-5

SPECKLED SUSSEX

SPECKLED SUSSEX — Stock and eggs. Sparling Sisters, Garden Grove, Iowa. 2-4

SPECKLED SUSSEX—Winners at Greater Chicago Show, 1918. Choice birds from winning strain. Hatching eggs from good matings. Prices reasonable. Write me your wants before buying elsewhere. C. A. Campbell, 1913 W. 59th Street, Chicago, Ill. 2-4

SPECKLED SUSSEX—Quick growers; fine for broilers and roasters; 15 eggs for \$2. Rockhorn Farm, Wheaton, Ill. 3-5

SPECKLED SUSSEX — Rawnsley-Shields strain. Mating list. C. S. Wells, Delaware, Ohio. 3

EGGS FOR HATCHING from imported Speckled Sussex. Henry Hilberg, East Moline, Ill. 3

MADISON SQUARE GARDEN, 1917-18, 1st cockerel, 3d cock; Palace, 1916, 2d cockerel, 2d hen. Three hens mated to produce more winners. Eggs, \$3 per 15. Joseph Preece, Fort Washington, Pa. 3

FIELD'S SUSSEX — CHICAGO winners. Stock, eggs. Field Bros., Sandwich, Ill. 3-5

SUMATRAS

BLACK SUMATRAs for sale — K. A. Wernle, 5020 Monticello Ave., Chicago. 2-3

BLACK WYANDOTTES.

BLACK WYANDOTTE EGGS, \$2 per sitting. R. E. Hickman, Girdletree, Md. 3-5

BUFF WYANDOTTES

EGG-BRED BUFF WYANDOTTES—Winners last National Club show. Breeders, eggs, chicks, priced right. Lea Munger, De Kalb, Ill. 2-3

BUFF WYANDOTTES—267 egg record; proof; write for circular and contest record. Layers; winners. J. J. Dansro, N. Clarendon, Vt. 2-4

BUFF WYANDOTTES OF quality—Eggs from silver cup winners. Send for free mating list. William E. Woolley, Sidney, Ohio, Route 5. 3-5

GOLDEN MODEL BUFF Wyandottes—Winners at Chicago, Columbus and Cleveland. Stock and eggs. B. M. Owens, Shiloh, Ohio. 3-4

BUFF WYANDOTTES—Have purchased the entire stock of F. L. Waterman Buff Wyandottes and will sell a few choice cockerels and cocks at reasonable prices. Also booking orders for hatching eggs from prize winning stock. Write for prices to Alfred W. Hobeln, Barrington, Ill. 3-4

LANGE'S BUFF WYANDOTTES—Winners, layers, payers. Two shows, 16 entries, 11 ribbons. Breeders or sale. Eggs, \$3 per 15, 30 for \$5. J. Y. Lange, 1191 Scotten Ave., Detroit, Mich. 3-5

BUFF WYANDOTTES — Sanborn strain, wonderful layers; winners. Eggs, \$1.50 per 15; 100, \$8. Ben Threlkeld, Ewing, Ill. 3-5

BUFF WYANDOTTES of high egg record ancestry; \$3 per 15. Ralph M. Smale, Pottstown, Pa., Route 2. 3-5

COLUMBIAN WYANDOTTES

COLUMBIAN WYANDOTTES — Choice strain, prize winners, stock and eggs; prices reasonable; quality guaranteed. C. A. Mock, LeMars, Iowa. 1-3

COLUMBIAN WYANDOTTES—Bred to lay but prize winners; exhibition mating eggs, \$3 for 15; yard eggs, no inbreeding, no culls, \$1 for 15. Ira Parrack, Santa Anna, Texas. 2-4

TENTH ANNIVERSARY SALE—Breeding cockerels a specialty; vigorous, trapnested stock; winners always, Boston, New York. (No eggs or chickens.) Write needs. Address Ralph Woodward, Box J, Grafton, Mass. 2-4

COLUMBIAN WYANDOTTES—Hatching eggs and baby chicks, from range raised, bred-to-lay stock of exhibition quality; prices reasonable, quality considered. Chris. Hendricks, Glasco, N. Y. 2-5

COLUMBIAN WYANDOTTE cockerels—Exhibition and utility; bargains if taken at once. Write Frank Male, Gardner, Ill. 3-5

MICHIGAN'S CHAMPION COLUMBIAN Wyandottes, greatest of all layers; established their reputation by the show-room records they attained from coast to coast. Eggs from six grand exhibition matings, selected for size, markings and vigor. Fertility and satisfaction guaranteed. Arthur Schaaek, 605 Rohms Ave., Detroit, Mich. 3-4

BRED-TO-LAY COLUMBIAN Wyandottes, 15 eggs, \$1.50; 100, \$8. L. S. Spafford, Martville, N. Y. 3-5

COLUMBIAN WYANDOTTE EGGS that produce chicks that pay if feed is high. S. M. Watkins, Walnut, Ill. 3-5

COLUMBIAN WYANDOTTES that have always been winners at Chicago, Minneapolis and Minnesota State Fair. Geo. A. Kersten, Washburn Park, Minneapolis, Minn. 3-4

SUPERIOR STRAIN WINS again at Boston, 3 pullets, 4 cock, 3 pen. Choice breeders, reasonable. Hatching eggs from as good as the best. Gilbert Poultry Farm, Whittier Road, Haverhill, Mass. 3-5

COLUMBIAN WYANDOTTES exclusively. Laying strain, but scoring as high as 94%. John Rockvam, Courlland, Minn. 3

GOLDEN WYANDOTTES

GOLDEN WYANDOTTES, bred for exhibition and utility; stock and eggs. Rt. Dick, Brunswick, Me. 2-4

A FEW CHOICE Golden Wyandotte cockerels, \$3 and \$5 each. Nick Till, Independence, Iowa. 3

GOLDEN WYANDOTTES—First and second prize winners at St. Louis Coliseum. Hatching eggs, first pen, \$3 per 15, \$5.50 per 30. Second pen, \$2.50 per 15, \$4 per 30. Circular free. Sunflower Poultry Farm, Guss C. Goeddel, Waterloo, Ill. 3

GOLDEN WYANDOTTES — Fancy and utility; Batesville, Chicago, Indianapolis winners. Eggs, \$2, \$3 and \$5 per 15. Chas. Diekmann, Batesville, Ind., R. 2. 3-4

GOLDEN WYANDOTTES—Choice cockerels, pullets and eggs from prize winning stock. F. C. Liles, Collins, Ohio. 3-4

PARTRIDGE WYANDOTTES

PARTRIDGE WYANDOTTES—Eggs from Premiers, \$1.50 per 15; 50, \$3.50. Fertility guaranteed. E. H. Casey, Ewing, Ill. 2-4

PREMIER PARTRIDGE WYANDOTTES —Won 1st cock, 1st hen, 1st-2d cockerel, 1st-2d pullet, 1st pen, champion sweepstakes cock, at great St. Louis Coliseum show. Eggs, \$2.50 per 15 up. Chicks, 30c each. Folder free. A. Louis Kelm, Box 93, Waterloo, Ill. 3-5

KASTER'S PARTRIDGE WYANDOTTES —have bred them for 14 years; have some splendid matings this season. D. R. Kaster, Corydon, Iowa. 3

SILVER LACED WYANDOTTES

MAC'S SILVER WYANDOTTES—Breeding cockerels. Hatching eggs. D. Roszel McConnell, Randolph Ave., Hagerstown, Md. 12-3

S. L. WYANDOTTE hens and cockerels scored and unscored; Tarbox and Steinmisch strain; eggs in season. Mrs. C. W. Whitham, Fairfield, Iowa. 1-4

SILVER LACED WYANDOTTES — Exhibition and breeding stock for sale; prices reasonable. B. A. Romisch, Creston, O. 2-3

SILVER WYANDOTTES—Prize winners; eggs for sale; circular. H. O. Giese, Princeton, Wis. 2-4

SILVER WYANDOTTE EGGS—Prices reasonable; exhibition matings. Every first, Eastern Illinois show. Roy McCracken, Paxton, Ill. 3-5

SILVER LACED WYANDOTTE cockerels; choice and reasonable. Mrs. Elmer Glaser, Clayton, Ill. 3

HEAVY SILVER LACED Wyandotte cockerels, \$5. Mrs. Holland, 499 North St., Evergreen, Long Island. 3

SOMMER'S SILVER NORTHERN raised; show winners; list ready. Carl H. Sommer, Rush City, Minn. 3

SILVER WYANDOTTES — Hundreds of choice breeders and exhibition birds; also eggs from trapnested hens. Circular free. Chas. Schroeder, St. Peter, Ill. 3-4

SILVER LACED WYANDOTTE eggs for hatching. Also baby chicks. Mrs. Gertrude Whitten, Elmwood, Ill. 3-4

FOR SILVER LACED Wyandottes, the kind that win and lay, address Helfrich Brothers, Hammond, Platt Co., Ill. 3-4

SPANGLED WYANDOTTES

SPANGLED WYANDOTTES—The new, ideal breed; stock and eggs. L. Cook, Originator, Oakville, Iowa. 2-4

WHITE WYANDOTTES

WANT LAYERS? Baby chicks from trapnested White Wyandottes, 15c each; March delivery, 18c. Vigorous breeding hens. Winners at St. Louis Coliseum. Eggs, \$2.00 per 15. E. W. Schaperkottler, Valley Park, Mo. 1-4

STATE SHOW—Fair Champions, blue and red ribbon winners 1917; eggs, \$5 setting. Benj. L. Knight, Newberry, S. C. 1-3

WHITE WYANDOTTES FROM Wisconsin State Fair Winners; \$1.50 and up. Laurel Killips, R. 6, Waukesha, Wis. 1-3

"REGAL" WHITE WYANDOTTES — \$3 up; eggs, \$1.25 up. Write for circular and winnings. Satisfaction guaranteed. Hugh Barnes, Trenton, Mo. 1-4

WHITE WYANDOTTES exclusively — Stock and hatching eggs for sale. Orchard Poultry Yard, St. Peter, Ill. 12-16-1yr

WHITE WYANDOTTE COCKERELS and breeding pens; from high scoring, prize winning stock; range grown; good layers; eggs and baby chicks in season. W. A. Ziegler, Mt. Victory, Ohio. 1-3

WHITE WYANDOTTES—Hatching eggs; order now; satisfaction guaranteed; mating list. Edw. C. Wiesenborn, Grand Chain, Ill. 2-4

ST. CLAIR'S WHITE WYANDOTTES—Year-round layers; bred for years for egg production, vitality and beauty; hatching eggs, \$2.50 for 15; \$10 for 100; satisfaction guaranteed. St. Clair's Wyandotte Farm, Downing, Mo. 2-4

\$4.25 PER 100 EGGS—Welday's Laymore White Wyandottes; quality unequaled; catalog. Welday, Seville, Ohio. 2-4

MARTIN'S WHITE WYANDOTTES — Eggs, chicks, breeders; catalog free. Riverdale Poultry Farm, Riverdale, N. J. 2-4

WHITE WYANDOTTES—I have one pen, 6 pullets and cock bird, for sale cheap; prize-winning strain. C. A. Campbell, 1913 W. 59th Street, Chicago, Ill. 2-3

WILSON'S WHITE WYANDOTTES—Regal Dorcas strain; they win and lay; 15 choice cockerels, \$5, \$8 and \$10 each; eggs, \$3 for 15; write for list of winners and mating list. James C. Wilson, Peoli, Ohio. 2-4

WHITE WYANDOTTES—Stock and eggs for sale; write for price list. Earnest Massey, Mystic, Iowa. 2-18-1yr

TOM BARRON EGG-BRED White Wyandottes. Eggs, \$2 for 15. Chicks, 20c each. J. A. Shott, New Wilmington, Pa. 2-4

WHITE WYANDOTTE COCKERELS, \$3 and \$5 each, from prize winning and trapped stock. Ye Quill and Apple Yards, Sanders Bros., Ottawa, Ill. 2-3

WHITE WYANDOTTES—Eggs from big heavy layers; satisfaction guaranteed. Fred Stoler, Alexandria, Ind. 2-4

WELLS' WHITE WYANDOTTES—Linebred. Prize winners. Splendid layers. Eggs from choice matings of exhibition quality, \$3 per 15; \$5 per 30; \$12 per 100. M. G. Wells, Sellersburg, Ind. 2-4

"REGAL" STRAIN WHITE Wyandottes—Eggs and stock; won 9 ribbons with 12 entries, also silver cup for best Wyandotte male. J. Lowden, Winnebago, Neb. 3

TOM BARRON STRAIN White Wyandottes. Eggs from selected trap-nested hens, \$3 per 15. Infertiles replaced free. Bracksieck Bros., Hardin, Ill. 3-5

WHITE WYANDOTTES—Regal Dorcas line direct. Stock and eggs for sale. O. A. Burt, Albany, Wis. 3

BUSINESS-BRED, VIGOROUS White Wyandottes. They're real beauties and big producers. Eggs from special dual-purpose matings, 15c each. E. Sweet, Pierre, South Dakota. 3-4

R. C. WHITE WYANDOTTE eggs for hatching, 15, \$1.25. White Homer pigeons, pair, \$1.25. Graybill Poultry Yards, Secor, Ill. 3

ENGLISH WHITE WYANDOTTE hatching eggs. Imported stock. Geo. Hynick, 322 East Grant Ave., Altoona, Pa. 3-4

WORLD'S RECORD LAYING strain White Wyandottes. Limited number of settings for sale from record producing birds of English origin. An exceptional opportunity to secure blood from private flock of prolific layers. Each egg guaranteed. Prices, 25 cents per egg. Any size setting desired. Order at once. Gordon Kingsbury, St. Clair, Mich. 3-4

HUSKY, RANGE GROWN White Wyandotte cockerels of good type. Belmont Farm, Perrysburg, Ohio. 3

WHITE WYANDOTTES, S. C. Ancona eggs, \$5 per 100. O. J. Austin, Pana, Ill. 3-5

WHITE WYANDOTTES—MARTIN strain. Pen 1, Regal matings, \$4 per 15; pen 2, Dorcas matings, \$3.50 per 15; utility eggs, \$6 per 100, \$1.50 per 15. G. R. Moses, Lake Crystal, Minn. 3-5

EXHIBITION REGALS—EACH bird is up to or above Standard in weight, pure white, orange yellow legs, with broad and full breast, and they come from prize winning parents, too. Also have a grand pen of breeders with records from 203 to 223, headed by Federal Cecile, whose mother's official record was 224 and grandmother's official record was 265 eggs. Will spare a few eggs from either pen, 50c each; from few vigorous utility matings, \$1.50 per setting. Federal Poultry and Stock Farm, Federalsburg, Md. 3

WHITE WYANDOTTES—Pure white, true in shape. Eggs, 15, \$1.25; 30, \$2.25. G. A. Stahmer, Hoytton, Ill. 3

WHITE WYANDOTTES—Hatching eggs, \$2 for fifteen. John B. Sheets, Hagers-town, Md. 3-4

WHITE WYANDOTTES—Eggs from stock with breeding equal to any in America. Please write for prices and description of matings. I guarantee satisfaction. J. F. Garrison, Mt. Vernon, Ill. 3

WHITE WYANDOTTES—Blue ribbon winners. Pen eggs, two, three and five dollars per fifteen. Utility, nine dollars per hundred. Regal strain direct. Send for mating list. Ivor Jones, Bourbon, Ill. 3-5

WHITE WYANDOTTE EGGS—Two pens, \$2 per fifteen; two pens, \$1.50. Ye Quill and Apple Yards, Sanders Bros., Ottawa, Ill. 3-4

WHITE WYANDOTTE eggs from Chicago winners, \$3 and \$5 per 15. Send for catalog. A. J. Shannon, Appleton, Wis. 3-5

WHITE WYANDOTTE—REGAL Dorcas strain. Bred to lay and win. Won wherever shown. Eggs, special matings, \$2, 15; \$3, 30. Utility, \$1.25, 15; \$3.50, 50; \$6.50, 100. Frank Hardwidge, Poneto, Ind. 3

JOHN BRUHN, HOMER, ILL., breeder of Ideal White Wyandottes. Guaranteed eggs from choice flock, \$1.50 per 15; \$7.50 per 100. 3-5

REGAL-DORCAS WHITE Wyandottes—Stock, eggs, chicks. Acme White Poultry Farm, Brookline, Vt. 3-5

WHITE WYANDOTTES—Martin, extra fine, mature stock; pure white, heavy layers; winners St. Louis, Indianapolis, Marion; best pens, 15 eggs, \$3; 50, \$7; fine range flock, 15 eggs, \$1.25; 50, \$3.50; 100, \$6.50. Cockerels, \$2 to \$10. Herbert Smith, Route 8, Bluffton, Ind. 3-4

WHITE WYANDOTTE EGGS—\$7.50 per 100. Good stock. Russell Simpson, Palmer, Ill. 3-5

WHITE WYANDOTTES—Winners large shows, heavy layers. Eggs, \$2. Superb matings. Carroll Halsted, Warren, Ill. 3

REGAL WHITE WYANDOTTE eggs, \$1.50. Fox Terrier pups. Walter Stubbs, Route 10, Kalamazoo, Mich. 3

WHITE WYANDOTTES exclusively—Several years' breeding, fine layers, snow white. Eggs, 15, \$1.50; 50, \$3.50; 100, \$6. Geo. Tuis, Fredonia, Kan. 3-5

WHITE WYANDOTTES—Eggs from blue ribbon winners, also heavy layers; a great bargain, \$3 per fifteen. Warner & Aderhold, Plymouth, Wis. 3-5

BUY WHITE WYANDOTTE stock, eggs, baby chicks from bonded breeders. Particulars free. International White Wyandotte Club, Topeka, Kan. 3

YOU WANT WINTER LAYERS?—Get Miller's White Wyandottes, bred with blood from best laying strains in America. Hatching eggs, 15, \$1.50; 50, \$3.50; 100, \$6. Alfred H. Miller, Prescott, Wis. 3-5

EGGS FROM 2 CHOICE exhibition quality pens of Regal White Wyandottes, \$3 per 15. Edouard Nicollier, Monroe, Wis. 3-5

WHITE WYANDOTTES—Bred in line for 18 years. Winners in hot competition. Stock and eggs. Dr. Hallam, Mooresville, Ind. 3

WHITE WYANDOTTES—RUDY'S Perfection strain. Eggs for hatching; reasonable. S. Martin Nelson, Momenca, Ill. 3-5

WYANDOTTES—SEVERAL VARIETIES

LAKEVIEW WYANDOTTE YARDS—A splendid lot of healthy, vigorous birds bred from prize winners. We breed all varieties of Wyandottes. Cockerels now ready for sale delivery. We also have Black-Tailed White Japanese Bantams; limited stock for sale. Eggs in season; prices on application. R. C. Sanders, Prop., Pierre, S. D. 2-4

ONE FREE SETTING Buff or Partridge Wyandotte eggs with each order. Get our proposition now. Coffin & Sons, Waverly, Iowa. 3

SEVERAL BREEDS

WYANDOTTES—ENGLISH; absolutely the highest official pedigree stock in America. Also Leghorns, Buff Rocks, Reds, Wyandottes, 282 eggs official; Lady Storr's, 287 eggs; Rocks, 280; Reds, 273. Morris Farm, Bridgeport, Conn. 2-4

PARTRIDGE PLYMOUTH ROCKS and Silver Penciled Wyandottes; fine stock; shipped on approval; prices reasonable. Wm. Schetter, Urbana, Ohio. 1-3

TOULOUSE GEESSE—Rouen Ducks, Buff and Barred Rocks of the highest quality; circular; stock and eggs. Edw. Davidson, Carey, Ohio. 1-3

STOCK, EGGS AND BABY chicks, Buff and Silver Penciled Rocks; Black, White and Partridge Wyandottes; Blue Orpingtons, White Houdans, Rose Comb White Minorcas, Buff Laced Polish, White Guineaes, Silver Sbright and Partridge Cochins Bantams. James G. Balie, Platteville, Wis. 2-4

FOR SALE—LARGE Dark Brahmas and Buff Cochins. Exceptionally fine quality, from show winners. Prices very reasonable. Inquire H. C. Weinrich, Cambridge, Ill. 2-3

S. C. W. ORPINGTONS and S. C. Ancona eggs and baby chicks from choice stock; satisfaction guaranteed. G. V. Dieter, Knapp, Wis. 2-4

ENGLISH WYANDOTTES and Leghorns, Sheppard Anconas; write for list. David Walmer, Jonestown, Pa. 2-4

SALMON FAVEROLLES, Millefleur Bantams, Erect White Runner ducks; extra fine. N. G. Buxten, Johnstown, Ohio. 3-5

EGGS—Two Pens prize-winning R. C. R. I. Reds. Stock from champion Coliseum Show, 1916. R. C. R. I. Whites, pullets laying at 4½ months. All eggs, \$2 and \$3 for 15. John H. Wolgast, Danforth, Ill. 2-4

WHITE WYANDOTTES, S. C. Black Minorcas, S. C. Buff Orpingtons, White Guineaes; best stock; eggs cheap. Elmer Patterson, Dix, Ill. 2-5

BUFF ROCKS, CRESCENT strain; White Rocks, Fishel strain, and White Orpington, Aldrich strain; eggs; Buff baby chicks. Rachel Sheppard, Route 1, Pearl, Ill. 2-5

NICE TOULOUSE GEESSE, \$6 per pair. Stock and eggs, 40 breeds land and water fowls. Won 470 prizes at Indiana and Illinois State Fairs, 1917. Catalog, 3c. Chas. Smiley, R. 14, Judson, Ind. 2-4

FOR SALE—35 BREEDS poultry, turkeys, ducks and geese. Hatching eggs. Incubators and brooders in 3 sizes. Price list free. Poland-China Hog and Poultry Farm, Man-kato, Minn. 2-4

AMERICAN DOMINIQUEs—Black Javas, Dark Cornish, Light and Buff Brahmas. Circulars. Dr. Harwood, Malone, N. Y. 2-4

ROYAL W. WYANDOTTES, R. C. Rhode Island Reds. Extra quality pens headed direct from Chicago winners. Heavy layers. Reasonable prices; satisfaction guaranteed. Write for mating list. Lester Barkman, Ohio, Ill. 3-5

EGGS! EGGS!—SILVER Laced Wyandottes, Light Brahmas; 15, \$1.50; 50, \$4.00. Rouen and Buff Orpington ducks, 12 eggs, \$1.50. Fred Kucera, Clarkson, Neb. 3

BREEDER OF 20 VARIETIES of poultry, 15 varieties of Bantams. Stock and eggs for sale. The home of blue ribbon winners. Plain View Poultry Farm, New Knoxville, Ohio. 3-5

BLACK JAVAS, Blue Andalusians—Eggs, \$1.50, 15. Blues, 1918 Chicago winners; Also Reid's Improved Yellow Dent seed corn, extra. Herbert Hodgson, Albion, Ill. 3

ANCONAS, LEGHORNS, BRAHMAS, Partridge Rocks, Orpingtons, Wyandottes, Minorcas, Hamburgs, White Rocks, Langshans, ducks, geese, guineas, pigeons, game birds, cavies, Belgian hares, rabbits, ferrets, rats, mice, skunks, dogs. Catalog for stamp. Danger & Co., Sleepy Eye, Minn. 3

ROSE COMB ANCONAS and American Dominiques. Ask for circular. Miss Helen Hoppe, Melrose, Minn., Route 3. 3-5

EGGS, 13 FOR 1, 30 for \$2. Thorbred Rocks, Wyandottes, Reds, Leghorns, Hamburgs; 19 varieties; 36 years. Catalog. S. K. Mohr, Coopersburg, Pa. 3-5

S. C. BLACK MINORCA and Golden Campine eggs from thorbred stock. \$1.50 per setting; \$10 per hundred. Wm. S. Dupre, Antioch, Illinois. 2-4

BOURBON RED TURKEY eggs—Old hens scored stock; extra large dark red, 50 cents each; \$4, 10; \$7 per 20. Single Comb Red, White Rock eggs, \$2.50 per 15, \$5 for 50. Mrs. Frank Spurling, Lovington, Ill. 3-5

EGGS FOR HATCHING—Will sell a limited number of sittings from choice pens of S. C. White Orpingtons, S. C. Buff Orpingtons and S. C. Rhode Island Reds. Orders filled in order received. Price, \$3 per sitting of fifteen eggs. Thousand Oaks, Green Lake, Wis. 3-4

EGGS—SINGLE COMB Rhode Island Reds, Buff Orpingtons, 15, \$1.50. White Pekin ducks, 11, \$2. Harold W. Price, Fulda, Minnesota. 3

HICKORY DELL FARM—Single Comb Anconas, beautiful dark birds, winter layers, selected matings, eggs, 15, \$3; 100, \$15. Mammoth Pekin ducks, eggs, 10, \$2. Instructive circular free. Stanley Dillman, Glenbeulah, Wis. 3

EGGS FOR HATCHING from prize winning Buff Orpingtons, Houdans and Anconas; pure white rabbits and Belgian hares cheap. Ehresman, Edgerton, Ind. 3

BABY CHICKS AND EGGS—S. C. White Leghorns, Anconas, Reds and Rocks, 200-egg strains, range breed; prices reasonable. Sweet Briar Farm, Ontarioville, Ill. 3

ROSE COMB RHODE ISLAND Reds and Barron English White Leghorns. Special mated pens headed with males from dams with trap-nest records. All females trapped from first day of laying. June hatched birds producing 50 to 75 percent egg yield thru December and January. Mating list free. A few good breeding males for sale. F. W. James, Waukegan, Ill. 3

90 VARIETIES HAIR and feather birds; hatching eggs a specialty; complete list free. Bergey's Pet Farm, Telford, Pa. 3-4

SINGLE AND ROSE Comb Reds, White Wyandottes, Barred, White, Buff, Partridge Rocks; White, Brown Leghorns; stock and eggs to sell. Hope Poultry Breeders' Ass'n, Box A, Hope, Ind. 3

EGGS — BUFF WYANDOTTE, Light Brahma, Maline. Mrs. S. H. Brooks, Salem, Ind. 3

CANARIES

GOOD INCOME RAISING Canaries! New industry, at home, spare time; very little capital necessary; we show you how; choice breeders furnished. Monarch Specialty Co., Evanston, Ill. 2-4

DUCKS

PEKIN DUCKS—Selected hatching eggs from our celebrated strain Mammoth White Pekin ducks. Absolutely the best that can be produced. Nineteen years in the business. Satisfied customers everywhere. Prices reasonable. Crystal Spring Poultry Co., Oil City, Penn. 2-4

DUCKS—ALL VARIETIES cheap if taken soon. Bare Poultry Co., Box 909, Hampton, Iowa. 2-4

NEW 300-EGG SEVILIAN Ducks; world beaters; catalog. Welayda (Originator), Seville, Ohio. 2-4

OUR WHITE EGG Buff Orpington Ducks outlay Runners; catalog describing our 250-egg female; special matings guaranteed to produce winners at any show; complete history free; 10 years the world's leading breeder. Welayda, Seville, Ohio. 2-4

GIANT ROUENS, CAYUGAS—Chicago, Indianapolis winners; eggs, any quantity; reasonable. Willow Creek Duck Farm, Warsaw, Ind. 3-4

GENUINE WHITE RUNNERS, \$1.50 to \$2 each; the great laying, pure white egg strain. B. F. Morgan, Independence, Ind. 3

"WHITE EGG" PEKIN Ducks, \$1.50 setting. Woodford Poultry Farm, Station M, Cincinnati, Ohio. 3-5

PEKIN DUCK EGGS, \$1.25 per 13. Clarence Velandar, Welch, Minn. 3-5

PEKIN AND PENCILED RUNNER duck eggs, \$2 for 12. A. Moritz, Rahway, N. J. 3-5

EGGS FROM PRIZE winning White Pekins at Chicago shows. Also few fine young drakes. Prices reasonable. Alfred Hobein, Barrington, Ill. 3-5

WILD MALLARD DUCKS—Most beautiful of all water fowl. Easy to raise. Thoroughly domesticated. Eggs, \$1.50 per setting. No stock for sale. H. E. Woodruff, Oxford, Ohio. 3-5

BUFF ORPINGTON DUCKS—Eggs, \$2, 12. Satisfaction guaranteed. Forest A. Thurmon, Jonesburg, Mo 3-5

WHITE PEKIN—MAMMOTH duck eggs, \$1.50, \$2 and \$3 per setting of 12. River-view Poultry Yards, Manitowoc, Wis. 3-4

FOR SALE—MAMMOTH Pekin ducks, \$1.50; drakes, \$1.75. A. H. Seyer, Manson, Iowa. 3

MAMMOTH WHITE PEKIN ducks, bred from blue ribbon winners, Greater Chicago Show, Fort Wayne, Huntington and wherever shown. Eggs, two dollars and fifty cents per setting. Satisfaction guaranteed. W. H. White, Attica, Ind. 3

EGGS FROM LARGE White Pekin ducks, \$10 per 100. Bearden Poultry Farm, Thayer, Iowa. 3-5

60 LARGE ROUEN ducks at reasonable prices. Elmer L. Duttera, Littlestown, Pa. 3-4

221-EGG STRAIN Indian Runner ducks; greatest producers. Stock and eggs. F. L. Reinhart, Ottumwa, Iowa. 3-5

GEESE

ALL VARIETIES of geese cheap if taken soon. Bare Poultry Co., Box 909, Hampton, Iowa. 2-4

WHITE CHINA GEESE eggs, \$4.50 per 10. Alma Eichelmann, Route 4, Waterloo, Illinois. 3-4

PURE-BRED MAMMOTH Toulouse Geese eggs, 30 cents each. M. Retterath, Stacyville, Iowa. 3-5

GEESE—MAMMOTH TOULOUSE, African, White China, Embden, Bufts. Ducks—Imperial Pekins, Rouens, Indian Runners, Muscovys, Bufts, Turkeys—Mammoth Bronze, White Holland, Bourbon Reds. Price reasonable. A. A. Ziener, Austin, Minn. 2-4

MAMMOTH TOULOUSE GEESE — Blue ribbon winners; eggs, 35 cents each. Fred Scholl, Memphis, Ind. 3-5

DUCKS AND GEESE.

TOULOUSE GEESE, one pair White Pekin, one trio White Muscovy ducks; Garden winners. Mrs. M. Pomeroy Morey, Cranford, N. J. 3

TURKEYS

AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our ad. on page 380. 2-ft

LARGE WHITE HOLLAND Toms, \$8.00 each. Winnie White, Watson, Ill. 1-3

MAMMOTH BRONZE unrelated trios, bred from New York and Chicago prize winners; toms, \$8 to \$12; hens, \$7 to \$12; free circular. Eli Rosenberger, Tiffin, Ohio, R. 9, Box 26. 1-3

GIANT BRONZE TURKEYS from San Francisco World's Fair stock. Tom, \$10 to \$15; hens, \$8; from record stock. Ollie Shelton, Polo, Mo. 2-4

BAUMAN'S BEAUTIFUL Bourbons—Toms from blue ribbon and high record hens, sired by blue ribbon winners, Garden, Palace and other leading shows, \$12.50, \$15. Written pedigree. Egg orders booked. Mrs. M. F. Bauman, Clayton, Ill. 2-4

EGGS FROM MY prize winning White Holland turkeys, 36-lb. tom, score 98, 18-lb. hens, \$4 per setting 10 eggs. Satisfaction guaranteed. Mrs. E. J. Long, Assumption, Ill. 2-4

MAMMOTH BRONZE TURKEYS—Young toms, \$10 to \$25. Young hens, \$7 to \$12. Mrs. E. E. Mark, Stronghurst, Ill. 2-3

BRONZE TURKEYS—Sired by first prize Madison Square Garden tom, the sire of quality; pullets bronzed like toms; breeding and exhibition males and females. S. M. Yoder, Elk Lick, Pa. 2-3

TURKEYS — MALES, females; black, White, Red, Narragansett and Bronze. Excellent breeders from prize winners. Hope Poultry Breeders' Ass'n, Hope, Ind. 3

BOURBON RED TURKEYS—Eggs, \$3.50 per 10. Mrs. Fred Simpson, Salem, Ind. 3

MAMMOTH BRONZE TURKEYS—Hugo-King and Perfection strains; strong, vigorous, well-marked birds; \$4 for 10 eggs. Mrs. Fred Baynes, Salem, Ind. 3

WHITE HOLLAND TURKEY eggs, \$2.50 per 10. Matt Koch, Golconda, Ill. 3-4

EGGS FOR HATCHING from giant M. B. turkeys, the big kind; prices reasonable, considering quality. E. H. Hayward, Fairbank, Iowa. 3-5

WHITE HOLLAND, WHITE Rock (Fish-el), Embden Goose eggs, tomato and cabbage plants. Grace Garnett, Centertown, Mo. 3-5

GIANT BRONZE TURKEYS—Champion Gold-Bank strain. Hens weigh 20 to 25 pounds; pullets, 16 to 19. Tom sired by bird who won first at Madison Square Garden and Chicago. Eggs, 50c each. A. L. Ackerman, Rich Hill, Mo. 3-5

WANTED—200 MAMMOTH Bronze turkey hens and toms; 200 Toulouse and White Embden geese. Give weight, age, etc., when quoting. Macniff Company, 52-56 Vesey St., New York. 3

AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 380. 2-15-ft

PHEASANTS

REEVES AND AMHERST, healthy May-hatched birds; will breed this spring; wholesale prices. Harold Simmons, Howard Lake, Minn. 2-4

FOR SALE—GOLDEN Pheasant eggs, \$3.50 per dozen. Golden males, 2 years old, \$4; 1 year old, \$3. Ringnecks, \$5 per pair. Fred Guenther, 1538 Washington Ave., Piqua, Ohio. 3

PHEASANTS AFFORD MUCH pleasure and profit; 20c for booklet, "The Pheasant Industry," giving full instructions. Oak Grove Pheasantry, North Manchester, Ind. 3-5

PHEASANTS, WILD WATER Fowl, Deer, etc.—I have a superb lot of the following birds now for sale, just right for breeding the coming spring and summer: Pheasants: Ring Neck, Mongolian, Chinese, Golden, Silver, Reeves and Amherst, both young and adult. Water Fowl: Wood Duck, Mandarin, Mallards and Call ducks; Black Swan, Canada geese, Egyptian geese. Pheasant eggs—I am now also booking orders for eggs of the following varieties: Mongolian, Ring Neck, Chinese, Golden, Silver, Lady Amherst and Reeves. Wild Duck eggs—Wood Duck, Mallard and Gray Call. All the eggs I ship are guaranteed to be from non-related, pure-bred, strong, healthy birds correctly mated; all eggs are guaranteed not over three days old when they leave my farm. Full instructions given with each order as to setting, hatching, feeding and general care of the young birds. Wallace Evans Game Farm, St. Charles, Ill., largest and most successful breeders of pheasants, wild water fowl, deer, etc., in the world. 3-5

RINGNECK PHEASANT EGGS for hatching, 15 for \$3.50. Rockhorn Farm, Wheaton, Ill. 3-5

PIGEONS

FINE LINE FANCY pigeons for sale. C. A. Gottschalk, 569 Lansing, Detroit, Mich. 3-4

WANTED — 5,000 COMMON or Homer Pigeons. Pay at least 25c pair. Market poultry wanted. D. Gilbert, 1128 Palmer St., Philadelphia, Pa. 11

I OFFER GUARANTEED MATED Homers in any quantity at \$1.00 per pair. Beautiful White Homers, \$1.50 pair. Squab companions challenged to produce better stock at twice this price. Get my prices on Runts, Carneau Maltese hens and save dollars. Squab Manual, 25c. Charles A. Gilbert, 346 No. American St., Philadelphia, Pa. 11

BLUE HOMERS—6 pairs, \$5; White, \$7; Red Carneau, \$10; guaranteed mated. Woodford Poultry Farm, Station M, Cincinnati, Ohio. 2-4

RABBITS AND HARES

RAISE BELGIAN HARES FOR ME—I furnish magnificent, thoroughbred Young Rufus Red stock at \$3 each, and buy all you raise at 30c per pound on foot. Send 10c for Breeders' Instruction Bulletin. Frank G. Cross, 6433 Ridge, St. Louis, Mo. 11-17-ft

BELGIAN HARES—Get our quotations. Hare book and catalog, five stamps. Failing Poultry Farm, La Fargeville, N. Y. 1-3

PEDIGREED RUFUS RED Belgians and Mammoth Flemish Giants. Send 10c for booklet. Canada's Rabbitry, 253 York, Denver, Colo. 1-3

REDUCE THE HIGH COST of living by raising domesticated rabbits. The Pet Stock Journal, Bob B3, Lamoni, Iowa, will tell you the best methods for pleasure or profit. Special, 8 months, for 25 cents. 2-4

RAISE BELGIAN HARES—New Zealand Reds, Flemish Giants; wonderfully interesting magazine, tells where to sell for \$2 to \$15 each. Also covers all other outdoor industries. 10c a copy (50c a year). Address Outdoor Enterprises, Sub. Dept. 3, 804 Admiral Blvd., Kansas City, Mo. 2-18-ft

PEDIGREED RUFUS RED Belgians and New Zealand Reds that are red. Prices on request. Send for booklet, "Rabbits and How to Raise Them." Tells everything; 15c. Belleville Rabbit Farm, Bellefontaine, Ohio. 3

GET MY BELGIAN Hare proposition; particulars, 10c. U. Anderson, 2421 Ogden St., Denver, Colo. 3-5

GUINEAS

PEARL AND WHITE African guineas cheap. Bare Poultry Co., Box 909, Hampton, Iowa. 2-4

PEARL GUINEAS, \$1 each; White Guineas, \$2 each. Large flock to select from. John Hass, Bettendorf, Iowa. 2-4

GUINEA PIGS

BOOKLET BREEDING guinea pigs 20 cents. Warren Fluck, East Greenville, Pa. 4-17-1yr

DOGS

REGISTERED SCOTCH COLLIE Puppies —\$5 to \$10; catalog stamp. Failing Poultry Farm, La Fargeville, N. Y. 1-3

COON HOUNDS, FOX HOUNDS, Rabbit Hounds, Pointers, Setters, Alredales, Fox Terriers. Catalog, six cents. Sam Stephenson, Covington, Tenn. 3-5

PEDIGREED COLLIE PUPS. Males, \$10; females, \$5; London Hope at stud, fee \$10. Plummer McCullough, Mercer, Pa. 9-15tf

ON INSTALLMENTS—We offer you Airedale and Collie bred matrons thus; dog and bitch pups, spayed bitch pups, list and terms free. Springdale Kennels, St. Charles, Ill. 10-17-tf

BEAUTIFUL, REGISTRABLE SCOTCH Collie pups, \$5 to \$9. Meadow Farm, Coulterville, Ill. 3

PET STOCK

POULTRY AND PET STOCK catalog on request. Dangers & Co., Sleepy Eye, Minn. 2-4

BEAUTIFUL ANGORA CATS and kittens; make the best ratters, \$5 up. Stamp for reply. Bay View Farm, North Haven, Maine. 3-5

PONIES

FOR SALE—SHETLAND pony stallion; black, 40 inches high, sound, gentle, broke to ride and drive; also two mares. Henry Peterson, Wallingford, Iowa. 2-3

FERRETS

2,000 FERRETS—EITHER color. Small. Mated pairs or dozen lots. Pamphlet and price list free. Levi Farnsworth, New London, Ohio. 8-3

ORNAMENTAL

SILKIES—LAKE GEORGE Game Farm, Lake George, New York. 12-5

INCUBATORS AND BROODERS

\$25 BUYS 600-EGG Mandy Lee Incubator in good condition. R. L. Cass, Short Falls, N. H. 1-3

BUCKEYE INCUBATORS—Both grades, five sizes, at 1917 prices. 60-egg, \$8.50; 250-egg, \$19.50. Also Standard brooders. Guaranteed new, money back if not satisfied. Immediate shipment. Buckeye Sales Co., 438 Eldorado St., Appleton, Wis. 2-4

TWO 120 SIZE Cyphers Electrobrooders, two electric brooders for sale, cheap. H. F. Leichtfuss, 807 Grant Blvd., Milwaukee Wis. 2-3

INCUBATORS SACRIFICED—600-egg Buckeyes, \$40; 360 Buffalos, \$20; 240 Buffalos, \$15; guaranteed like new. Earl Miller, Clyde, Ohio. 2-5

A BUCKEYE INCUBATOR, 120 eggs, will sell or exchange for typewriter. Gould Shaw, Newton Centre, Mass. 3

FOR SALE—SEVEN portable brooder hovers, Essex-Model pattern. The lot go for \$40. One 120-egg Essex-Model incubator at \$10. One 260-egg Model at \$30, or brooders and incubators all for \$75. J. E. Nichols, Hebron, Ill. 3

FOR SALE—ONE HALL Mammoth Incu- bator, 3,500-egg capacity, practically new, used twice. Wm. Fielden, Mooseheart, Ill. 3-5

FOR SALE—200-CHICK Johnson brooder in excellent condition. Mrs. Frank Wendele, Fairfax, Mo. 3

FOR SALE—X-RAY Incubator and brood- er, practically new. Write Don Hodges, Hodges St., Palestine, Texas. 3

FOR SALE—PRACTICALLY new 4,500- egg capacity Hall Incubator. Address Pabst Stock Farm, Oconomowoc, Wis. 3-4

EIGHT SECOND-HAND Hill Colony coal- burning brooders in good working order for sale cheap. A great bargain. United Brooder Co., Trenton, N. J. 3

BUFFALO INCUBATORS good as new; 120, \$10; 240, \$15. Thompson root cutter, new, \$3. Clifford Hartman, St. Marys, Pa. 3

2,400 NEWTOWN, 390 CYPHERS, 400 Prairie State, 240 Model, 160 Model, for sale or trade for day-old chick or pullets; 3-foot by 6-foot hot-bed sash, \$1 each. H. N. Fitzgerald, Onancock, Va. 3-4

CHEAP—TWO CANDEE Hot Water In- cubators, good order, capacity each 4,800 eggs; sell separate or together. Tanglewood Poultry Ranch, Rockville Centre, N. Y. 3-4

FOR SALE—TWO 200 improved X-Ray Incubators, 1917 models, \$10 each; one 1917 Standard coal brooder stove, \$10; one Model hand feed grinder, new, \$1.50. Bonggren, 6409 34th, Berwyn, Ill. 3

NEW AND USED incubators, brooders, stoves; some bargains. V. A. Morse, Ionia, Mich. 3

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FOR SALE—CHEAP, a number of 240 and 390 Cyphers incubators; latest models in first-class condition. George T. Jennings, 29 E. S. Water St., Chicago. 3

THREE 240 BUFFALO incubators, Chas. A. Cyphers, Mr., for sale cheap. F. L. Will, Brooks Park Poultry Farm, Dunkirk, N. Y. 2-4

CANDEE INCUBATOR FOR SALE—Nine 600-egg sections, with large heater; this machine is a late model, in A-1 condition. Write for prices and particulars. Valley Poultry Farm, Route 1, Wilmington, O. 2-3

INCUBATORS, CYPHERS 390 and 120; Simplex brooder stove, cheap. Geo. F. Conrad, Amanda, Ohio. 2-4

FOR SALE—3 65-egg Buckeye hot water incubators, complete; never been used, as I changed my plans after purchasing. Cost \$10.50 each. Will sacrifice for \$8 each; cash, no trade; make remittance payable to American Poultry Journal. Address R., care American Poultry Journal, Chicago, Ill. 1-18-tf

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DORAN'S GAPE REMEDY will positively cure gapes or money back; 25c; agents wanted; circular free. Address Box 117, Brandenburg, Ky. 2-6

SEND DIME FOR RED disinfectant that guards against roup by turning green when first threatens. Guaranteed. Shamrock, Box 532-A, Lincoln, Neb. 3

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THE NATIONAL, NEW method of ship- ping eggs and chickens, will save you lots of money. Send for free descriptive circular. National Folding Box Mfg. Co., 420 Wainwright, St. Louis, Mo. 3

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MAGIC EGG TESTER tells hatchable eggs before incubating; one year trial, money back guarantee; 90,000 sold; catalog. Wellday, Seville, Ohio. 2-4

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FOR CASH OR EXCHANGE—St. Regis raspberry plants, \$8 per 100, or large poultry, sheep, milk goats, heifers, ponies, grain, potatoes. Joe Stewart, 3110 Gideon Ave., Zion City, Ill. 3

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SOUTH DAKOTA WILL back you in buying a farm and also lend you cheap money for stock and improvements, and this where the wealth per farm is greatest of all the states. For state bulletins write Immigration Department, Chas. McCaffree, Commissioner, Capitol 12, Pierre, S. D. 3

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10-ACRE TRACTS in Michigan's Fruit Belt. Owner will sell at once. Terms, \$250 each; \$10 down, balance \$5 per month. Good for poultry, fruit and vegetable farming. Near-by markets, schools and churches. Write for information; free booklet. Swigart Land Co., 1-1259 First Nat'l Bank Bldg., Chicago, Ill. 3-5

FOR SALE—MODERN poultry plant, city of forty thousand; seven-room home, barn, garage, two acres land, five modern poultry houses, good range, fenced, fruit; built three years. Priced low, \$8,400. For full information address Prospect Poultry Farm, Route 2, Waterloo, Iowa. 3

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FOOD CONSERVATION—Your patriotic duty. Delicious butter made at 7c per pound by simple merging process. Guaranteed instructions only 25c. Norman M. Ovri, Hemet, Calif. 2-4

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25 OF KOELL'S NEW everlasting strawberry plants free to every customer. Write today for catalog telling all about them and other plants and seeds. W. H. Koell, Box 704, Hampton, Iowa. 1-3

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WANTED TO BUY—Hamburgs, Golden Wyandottes, C. I. Games, Leghorns, Spanish, Ducks, Geese, Turkeys and many other varieties; also Fantail, Homer and Carno pigeons. Describe what you have, quoting lowest price. Z. G. McKay, Clinton, Ia. 1-3

WANTED 5,000 THOROBBED fowls, all leading varieties, including Runner Ducks, Hamburgs, Andalusians, Campines, Spanish, Black Orpingtons, also Belgian Hares. Describe what you have, name lowest wholesale price. I buy entire flocks. P. W. Frehse, Clarinda, Iowa. 2-3

POULTRYMAN—15 YEARS' experience, desires position; married; age, 37. Ernest Brown, 1920 N. Robey St., Chicago, Ill. 3

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WANTED—2,500 EGGS, each, S. C. White Leghorns and S. C. Rhode Island Reds. What have you to offer? Wm. Fielden, Mooseheart, Ill. 3

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ROSE COMB REDS—Buschmann strain; first prize winners. Fifteen eggs, special matings, \$3; second, \$2; good utility, \$1, or \$6 per 100. Rose Comb White Leghorns, Perry and Kulp strains; special matings, \$3. Satisfaction guaranteed. James D. Pace, Route 6, Mt. Vernon, Illinois. 3



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SINGLE COMB WHITE Leghorns, Single Comb Rhode Island Reds. My March hatched pullets averaged almost 50 percent egg yield in December and January. Send for proof. Eggs from either breed, \$3 per 15; \$5.50 per 30. C. E. Rodgers, Montgomery, Mich. 3-5



BRONZE TURKEYS—None better in America. Flock headed by 33-lb. tom. Also choice Toulouse, Embden, African and English Buff geese. Eggs from above birds \$4 for 10. C. R. Smith, Burnt Prairie, Ill. 3-5



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RAISE HARES FOR US—We furnish stock and pay you \$2 each and expressage when three months old. Contracts, booklet and full information, 10c. Thorson Rabbit Company, Dept. 14, Aurora, Colorado. 2-4



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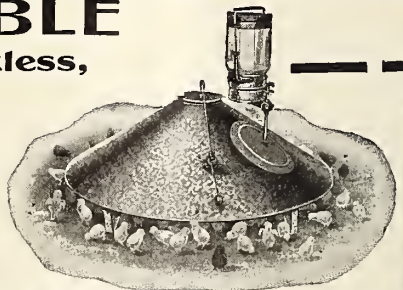
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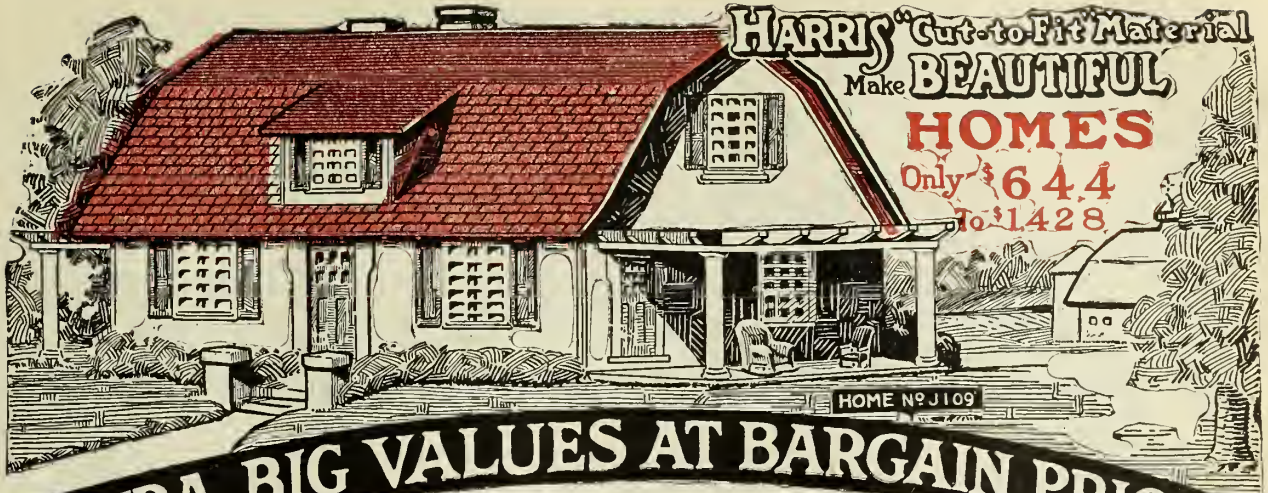
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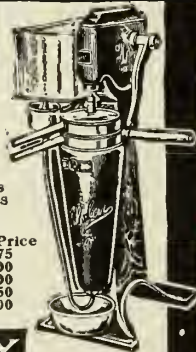
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Cockerels	- - - -	1st, 2d, 3d, 4th, 5th.
Pullets	- - - -	1st, 2d, 3d, 4th, 5th.
Hens	- - - -	1st, 2d, 3d, 5th.
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Sweepstakes Champion Male and Female; Color and Shape Specials Male and Female; Best Five Males; Best Five Females; Best Display, and every other Special Prize. This is the capstone to their unexampled record at New York for **30** victorious years. At the last four shows—**1915, 1916, 1917, 1918**, they have won **19** First Prizes out of **20** offered. **Every bird bred on my farm.**

Supreme at Madison Square Garden is Supreme Everywhere

The Imperial "Ringlets" have won **every first prize offered** at three of the last four Garden shows. Every Prize and Ribbon offered on Cockerels, viz: **1st, 2d, 3d, 4th, 5th**, the last five years in succession and under **three different judges**. First Prize Pullet and Champion Female four years in succession. The Imperial "Ringlets" have reached a perfection hitherto undreamed of in Barred Rocks—they stand out from all others in conspicuous dignity, notable for charm and beauty.

If you want the Best, absolutely the Best in Barred Rocks, you must have my Imperial "Ringlets." My customers are my first thought—nothing is too good for them

Prizes and Silver Cups

have been won by my customers in more than a **1000** show rooms throughout the civilized world. Grand exhibition and breeding birds in Cocks, Cockerels, Hens, Pullets and Pens of this Richest First Prize New York Blood for sale.

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AMERICAN POULTRY JOURNAL

VOL. 49, NO. 4

APRIL, 1918



FIRST PRIZE AND SHAPE SPECIAL S. C. RED HEN, NEW YORK STATE FAIR, SEPTEMBER, 1917

HOW TO MAKE CHICK GROWING EASIER

Published Monthly by the American Poultry Journal Publishing Company, 542 So. Dearborn St., Chicago, Illinois. For Subscription Rates See Editorial Page



Mash Makes Eggs—Mash Makes Chicks Grow

If you would be successful as a poultry raiser, take for your feeding motto—M-A-S-H—whether for egg production or growing chicks.

Remember that Mash, not Scratch Grains, is the proper feed to make hens lay, and that a good growing mash is the ideal feed for young growing chicks.

To get MORE eggs from your hens, feed FUL-O-PEP DRY MASH—the famous egg-making feed.

It is a soft feed, finely ground and correctly balanced—a feed composed of animal food, green food, grain protein food and other egg-making elements—a feed as near like the hen picks up herself in the spring as it is possible for expert science to produce.

It is the raw material from which eggs are made. Keep it before your hens all the time and you will get eggs in abundance.

FUL-O-PEP

GROWING MASH

is without a doubt the finest quality growing mash for chicks ever placed on the market. It has for its base OATMEAL, ground fine and we have nicely balanced it with other bone and muscle forming ingredients which promote rapid, healthy growth. When the chicks are 10 days old place FUL-O-PEP GROWING MASH where they can help themselves at will—keep it before them

day in and day out—the more they get away with the better and faster they will develop and grow. To the chick it is just like getting out on free range and feasting on bugs, worms, green stuff, etc., only in FUL-O-PEP GROWING MASH we have gone the free range one better and given him many good things that he could not possibly pick up shifting for himself.

The Big Poultrymen's Secret

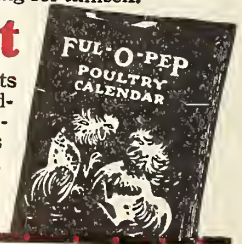
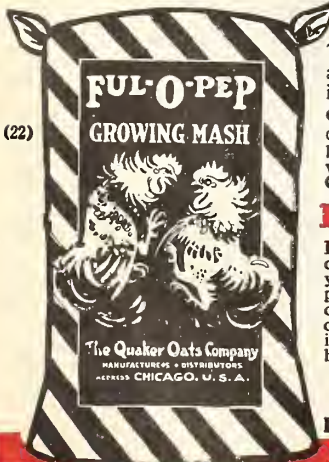
The secret of FUL-O-PEP GROWING MASH is the same secret such experts as Thompson, Fishel, Felch, Dann, Kempster and Lambert have used in feeding chicks. They all agree that OATMEAL is one of the finest known ingredients for growing chicks. Our feed experts after making exhaustive tests discovered that by using OATMEAL for the base and adding beef scraps, bone meal, green food, etc., in the correct proportion, that they could produce a feed that was far ahead of any known feed for chicks—the result is FUL-O-PEP GROWING MASH. Get it at your dealer's and you will be astonished how your chicks will thrive and grow.

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Fill out and mail coupon and we will send you free, postpaid, our FUL-O-PEP POULTRY CALENDAR BOOK, which tells you the simple methods by which poultry raising can be made profitable. Contains a daily egg record calendar—gives successful feeding methods—tells how to get more eggs—proper care of young chicks—how to best break hens from setting—in fact, it answers practically all of your poultry problems—a book you will value and keep. Send for it today.

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FRANK E. HERING'S WHITE LEGHORNS

have been purchased by

GEORGE B. FERRIS



To My Patrons:

I have sold my Single Comb White Leghorn flock to Mr. George B. Ferris, of Grand Rapids, Michigan. One immovable fact dictated this action: the pressure of work of patriotic, civic and business activities.

I have assumed the general management of the War Savings Committee for the State of Indiana during the year of 1918, and the demands of this office, added to other interests, leave no time for supervision of the poultry business.

I sincerely believe that I have on my plant one of the two greatest Single Comb White Leghorn flocks in the country. The matings have been most carefully made; the eggs are showing a high degree of fertility; the incubators are working satisfactorily; and as Mr. Ferris has retained the plant organization, his customers are assured of getting the quality of stock, baby chicks and eggs advertised in my poultry literature. He has leased my plant and the flocks and matings will not be disturbed.

Cordially yours, **FRANK E. HERING.**

The winnings of Mr. Hering's flock at the Chicago Coliseum the past three years show the unusual quality of the flock. In December, 1915, he won:



- First and third cocks
- First and fourth cockerels
- First young pen
- Second and third old pens
- Silver cup for best five cockerels
- Silver cup for best display



In December, 1916, there were 158 Single Comb White Leghorns entered, yet Mr. Hering won all trophies and specials, silver cup for best cock, hen, cockerel and pullet and the following regular prizes:

- First, second, third, fourth and fifth cocks
- First, second and fourth hens
- First, second and third cockerels

- First, second, third and fourth pullets
- First and second old pens
- First, second and fifth young pens

At the last Chicago Show, December, 1917, the winnings were as follows:

- First, second, fourth, fifth and sixth cocks
- Second, fourth and seventh hens
- First, fourth and fifth cockerels

- Second and third pullets
- First, third and fourth old pens
- Second, fourth and fifth young pens.

We have leased Mr. Hering's \$30,000 poultry farm at South Bend, Indiana, and will operate it in addition to our extensive Grand Rapids plant. The pens will be left this season just as mated by Mr. Hering and the prices of eggs and chicks are less than half what they should be considering the unusual quality of the stock.

April and May.			After June 1		
15 Eggs	\$10.00		10 Chicks	\$12.00	\$ 8.00
30 Eggs	18.00	13.00	25 Chicks	25.00	16.00
50 Eggs	26.00	16.00	50 Chicks	50.00	30.00
100 Eggs	50.00	30.00	100 Chicks	90.00	50.00

Eight weeks old cockerels, \$10; pullets, \$5. Breeding pen of 10 pullets and cockerel, \$50. Four pullets and cockerel, \$25.

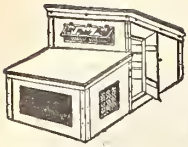
We are now booking orders for exhibition stock for the fall fairs and can furnish winners for any show in the United States or Canada.



GEORGE B. FERRIS

905 Union Ave., Grand Rapids, Mich.





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Cheaper than you can build. Write now for our free booklet showing 30 different cuts. We tell you how to raise your own meat and eggs. Write today. E. C. YOUNG CO., 6 Depot St., Randolph, Mass.

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\$1 WORTH
GRAIN

1916
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MEAT FEED

\$1.00 Buys More Meat Feed Now Compared to the Cost of Grain

Grain prices have gone up 200 to 300 per cent. Meat feed prices have gone up only 40 per cent. While meat feed was always the most economical considering the nourishment it furnished, it is now even more economical compared to grain because it has advanced relatively little in price.

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is a pure, sweet, greaseless, odorless, concentrate of fresh meat, cooked and prepared for every day feeding for all kinds of poultry. It contains 50 per cent more nourishment than the best meat scrap on the market (75 per cent protein guaranteed) and is thoroughly digestible. A small measure in the ration supplies all the necessary protein and makes the whole ration more nourishing. Write for our free book entitled "Feeding Secrets of Famous Poultrymen." Please give your dealers' name.

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will need a clean and sanitary receptacle to drink and eat out of. My "SAVACHIC" Fount and Feeder is just the thing. Holds water, food, sour milk, or grit. It is used in connection with a common milk bottle; made of galvanized iron. 35c each, postpaid; 2 for 60c with my catalog of other poultry supplies. H. A. STEVENS, 146 East Main Street, Batavia, Ill.

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POULTRY KEEPING

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American Poultry Journal Publishing Co., 542 S. Dearborn St., Chicago, Ill.

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Pens 1, 2 and 3 so mated that chicks will be pure Felch cocks or mated to granddaughters of Mollie Wellington. Prices \$7 for 11, \$10 for 15, \$15 for 30, \$25 for 50, \$35 for 100 eggs. Pens 4, 5, 6 are my old Felch line that are bred the same as sire and dam of Mollie the Champion—325 eggs a year—mated to Mollie's cockerels and those of my Duke B Strain—\$6 for 15, \$10 for 30, \$12 for 50 and \$20 for 100. Special White and Barred Rock pen same price. Also pens strictly pure bred of all four breeds, \$4 for 15, \$7 for 30, \$10 for 50, \$15 for 100. Utility Flocks, \$3 for 15, \$5 for 30, \$7.50 for 50, and \$12 for 100. Send three-cent stamp for Booklet of Fowls.

I. K. FELCH Box 176 Natick, Massachusetts

ENGLISH LEGHORNS

5-6-7 POUND HENS 7 AND 8 POUND COCKS
WHITNEY-BARRON 300 EGG STRAIN"

TRAP-NESTED AND PEDIGREED STOCK
FERTILE EGGS FROM WORLD WINNERS
"A WINTER LAYING STRAIN"

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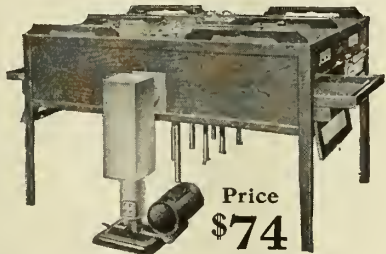
THE WHITNEY POULTRY FARM
IMPORTERS-BREEDERS

*ULSTER QUEEN RECORD 800 EGGS IN 3 YEARS MARLBOROUGH, N. Y.

"WE LEAD, OTHERS FOLLOW"

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A Wonderful Buff Leghorn Male

heads our pen No. 1. He is a dream. We never thought such a bird could be bred. We doubt if there is a better one living. His sire is owned by Dr. Heasley and has been heading one of his best pens three years in succession. He is a descendant from a hen that made a record of 283 eggs in a year, and was sired by the blood of a hen making a record of 262 eggs. He is also a grand show bird. If you want show and laying qualities combined, we can please you. No. 2 Pen is headed by a son of this bird in Pen No. 1. Not over 15 eggs sold to one customer from each pen. All infertile eggs refilled free. Pen No. 1, \$10 per 15; Pen No. 2, \$5 per 15.

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Owen Farms Matings for 1918

are the finest ever put together. They combine thorobred and line-bred utility and beauty qualities to a degree that is excelled by no other flock in existence.

It is the earnest desire of each one of us to help win this war, and to help win it as quickly as it can be won and won conclusively. Our Government tells us that food will win it. You and I know that more meat food can be produced in a shorter time with poultry than with any other bird or animal. Furthermore, you are advised by the authorities at Washington to raise Standardbred birds. It costs no more for food and labor to produce good poultry than it does ordinary mongrels. The slightly increased first cost for Standardbred birds or eggs for hatching is a mere fraction of the increased value of such a flock when reared. Owen Farms Standardbred flocks have been line-bred for many generations to produce size, bone, stamina, vigor and egg production. Combined with these cardinal requirements are Standard qualities that make them unequalled in the show room. YOU WANT THIS PAYING kind of fowls and you will find here at Owen Farms six of the seven most popular and profitable varieties in existence.



Buff Orpington
1st Madison Square Garden



White Plymouth Rock
1st Madison Square Garden



White Wyandotte
1st Chicago Coliseum

White Plymouth Rocks S. C. White Leghorns White Wyandottes White Orpingtons Buff Orpingtons S. C. R. I. Reds

No flocks have given a higher egg yield in the trapnets of customers and no flocks have produced as high a percentage of winning birds in large and small shows in the United States, Canada, Australia, Mexico, South Africa and South America.

Thousands of Owen Farms birds have won the blue ribbons at Madison Square Garden, Boston, Chicago, Minneapolis, Toronto, The Guelph, Dallas, Los Angeles, Portland, Seattle and at every other show you can name. Many more thousands have laid and paid in every State in the Union, Province of Canada and foreign countries all over the globe.

My mating list will give you in complete and interesting form the history of Owen Farms flocks in each variety and a careful description of the finest matings in existence. You will find eggs listed from superbly mated pens in each variety at

\$6, \$10, \$15, and \$20 per 15

At this writing I have orders booked for a large percentage of my March output. Orders are coming every day and if you wish your eggs on any given date I would advise ordering at once. My satisfied customers of former years have taken over 60 percent of my output to date. This speaks volumes for the results from Owen Farms eggs for hatching.

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My surplus breeders are nearly all gone. Can furnish you with very choice cocks and cockerels in Reds, Buff Orpingtons and White Leghorns. Have about 100 fine Leghorn females that I can sell you properly mated for best results. No more females in other varieties until after June 1.



S. C. R. I. Red
1st Madison Square Garden



White Leghorn
1st Madison Square Garden



White Orpington
1st Madison Square Garden

HALF PRICE STOCK SALE

Will book your order for delivery in early June for males and females from my matings at just one-half the price they will cost you now. This is your opportunity to secure choice birds at small cost and early over for breeding and showing next year.

Every Owen Farms customer is sure of absolute satisfaction and that his money will buy more real value and lasting satisfaction here than the same amount would buy elsewhere. If possible, come and see my farms. If you cannot come, write and receive my printed matter. We both lose if you do not carefully consider Owen Farms value before you place your order.

OWEN FARMS Office at 107 William St., Vineyard Haven, Mass.
Maurice F. Delano, Proprietor Frank H. Davey, Superintendent

AMERICAN POULTRY JOURNAL

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879.

Volume 49

Chicago, Ill., April, 1918

No. 4

PRESENT-DAY POULTRY FARMS

LOCATED on an island, off the coast of Massachusetts, is one of the largest poultry farms in the world, and probably the largest that is devoted exclusively to the production of Standard-bred poultry. This is Owen Farms at Vineyard Haven, Mass., which is devoted exclusively to the production of six of the most popular varieties that are recognized by the American Standard of Perfection; namely, S. C. Rhode Island Reds, Buff and White Orpingtons, White Plymouth Rocks, S. C. White Leghorns and White Wyandottes. These varieties are recognized as general dual-purpose fowls, which produce both meat and eggs.

Owen Farms is owned and is under the direct management of Maurice F. Delano, who is, without doubt, one of the ablest poultry breeders in the country today. Associated with Mr. Delano is Frank H. Davey, who is superintendent of the farms. Mr. Davey bears the reputation of being the most expert breeder of White varieties in the country. We present herewith the photographs of these two poultry experts.

Probably many poultrymen have wondered why Owen Farms was situated on an island, which to intending visitors is not easily reached. Despite this fact, however, express and postal service is very regular and rapid, in fact just as quick as tho the place were situated in the rural districts of the mainland. There is a great advantage in the climatic conditions out there on the Island of Martha's Vineyard. The winters are never severe, and the temperature is 10 degrees milder than that of Boston in the coldest weather. Heavy snow is seldom seen and soon disappears under the action of the salt air. The Gulf Stream comes up, flows all around the island, and striking the south shore of Cape Cod is sent eastward across the Atlantic to England. This tempered climate affords Owen Farms an advantage in having an open fall and short mild winters, while the ground is clear of snow and ice much earlier than in other sections in the same latitude, all of which tends to aid in the better development of the stock raised on this farm. They are also far removed from the soot and smoke of the mainland and therefore the White birds are not only bred white, but stay white.

Owen Farms does not approve of marketing "fancier's culls" as "utility stock." All culls are disposed of as market poultry, for which there is an unusually fine demand in summer, the summer residents on the island regularly paying from 35c to 40c per pound for fowls and chickens. Very little business is

done in market eggs, except to dispose locally of eggs not suitable for hatching purposes. While a considerable number of day-old chicks are sold, Mr. Delano does not favor this branch of the business and much prefers to sell breeding stock and hatching eggs.

Owen Farms has incubator capacity for 3,000 at one setting. The brooder houses are equipped with International hovers and have an auxiliary heating system by a bank of hot water pipes on rear wall. Preference is given to hen hatching and hen brooding and long houses are equipped with conveniences for natural brooding of large numbers of chicks with hens, during the winter and early spring season.

The soil of the farm is sandy, but sufficiently substantial to carry a good growth of grass. There is sufficient woodland to afford ample shelter and plenty of shade with enough sunshine for good results.

The U. S. Government, thru the Department of Agriculture, is urging the people, back-yarders, as well as the practical poultrymen and women of the country, to raise more poultry and produce more eggs, and are advising the use of "American Standard-bred Poultry" as the best method to bring about the desired results. The source of supply from whence this stock will come will naturally play a very important part in the success of the movement, and on the influence of this splendid poultry movement thruout the country. For this reason, the better quality produced and distributed by the breeders, the better will be the standard of poultry wherever their stock



MAURICE F. DELANO

FRANK H. DAVEY

The two experts behind Owens Farms, are here seen at work, deciding between two remarkably good White Plymouth Rock cockerels to head a breeding yard.

is shipped. Those of us who have watched poultry conditions since the war began know very well that a very large percentage of our poultry was rushed to market and cold storage as soon as grain prices began to soar. Today we are facing a great shortage of fowls from which to produce eggs and meat, with the consequent results that those breeders who have held on, and are now being asked to supply the demand for breeding birds and eggs for hatching are in the fortunate position of being able to do a great deal of good for the future of Standard-bred Poultry. Owen Farms is in this position, as they have held on in the face of all the trying conditions of the past several months, and are now in a position to supply the wants of the large army of poultrymen who are becoming interested in thorbred poultry as a result of the efforts of the Department of Agriculture.

Mr. Hoover and the American Hen

Attitude of the Food Administration Toward Poultry Industry.
A Defense of Criticism.

By J. P. Henry, Chestnut Hill, Pa.

A POULTRY dealer, in Greenwich, Pa., writes to the *Produce Review*: "In my opinion the government should have put an embargo on the price of corn instead of on the sale of poultry, because it would not have oppressed so many millions of poor families in the United States."

There is much that might be said in favor of this dealer's opinion, altho there seems to be reason enough for the high price of corn. Many poor families depend upon poultry for a part of the income. To forbid them a market is unjust. In large cities and towns, in Jewish and Italian quarters, the shutting off of sale of live poultry for a period of ten weeks—live poultry being one of their chief sources of meat supply—is discrimination which imposes great hardship and is most unwise.

The following statement is credited to the poultry department of Cornell, and presents the producers' view of the ban on sale of live fowls:

"A worthy object wrongly administered. Undoubtedly the

already seriously reduced in number, sacrificed. The final effect will be less mature stock kept, less eggs and poultry meat to sell and to eat and, consequently, higher prices to hungry consumers. Valuable grain will be fed to unprofitable hens kept until April 30, instead of being released for human consumption. Other kinds of poultry, such as ducks and geese, will be sacrificed during the breeding season to satisfy demand for live poultry. The ruling will not apply equally to all parts of the country, on account of a marked difference in normal laying season. Hence the burden will not be distributed alike upon all producers. Let the American farmer know what the Nation needs, keep him informed as to crop and stock conditions, market prices, facilitate production and distribution, prevent monopolistic speculation, and trust in him to furnish the food to save the world. In an enlightened democracy, education and national spirit will accomplish more than arbitrary legislation."

One frequently runs up against good people in these days who assume the position that *any* criticism, however impersonal and void of malice, of the orders from "the powers that be," is unwise and unpatriotic. That any such criticism is untimely, obstructive and a comfort to the enemy.

The loyalty and patriotism of those who thus depreciate and protest against any criticism of official orders is not to be questioned, but their attitude of finger on lip reflects the survival of that sentiment that is inviting the ultimate downfall of the German nation, namely that "the King can do no wrong!"

There is, however, another class of citizens that object strenuously to any criticism from motives not so free from suspicion. Having obtained "a place in the sun," or hoping to do so, they are ever ready to applaud and uphold what their better judgment and experience condemn. Rather than risk "getting in dutch" with the "main guys" they are willing "to go along" and endorse all official action taken or proposed and label every protestant, however honest and able, as lacking in patriotism.

Obedience to orders is as obligatory upon the citizens of a Republic in time of war as it is upon the subjects of a Monarchy, but not the blind, unquestioning obedience of the latter. And, furthermore, with this vital exception—a Republic has the power, if objectionable and unwise and oppressive orders continue to be issued, to transfer the authority to issue orders to more capable hands.

A true republican form of government "lives and moves and has its being" in an all embracing atmosphere of intelligent, constructive criticism. If ever elective and appointive office holders come to be regarded as not open to criticism, God help the Republic!

In this connection, Theodore Roosevelt, in the *Kansas City Star*, lately said:

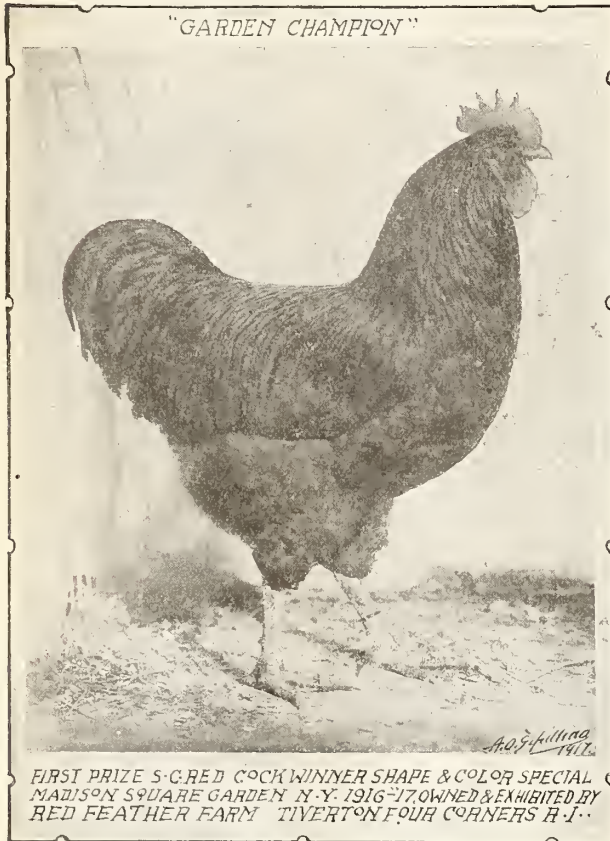
"It is not agreeable to keep insisting on the need of doing better than we have done. It is not agreeable to keep pointing out our shortcomings. But to do so is the only way of remedying them and of securing better action in the future. The people, some of them well meaning, some of them anything but well meaning, who denounce criticism and who object to telling the minimum of truth necessary to correct our faults, are the efficient allies of Germany and the foes of the United States.

"This is the people's war. It is not the president's war any more than it is congress' war—it is America's war. We are in honor bound in conducting it to stand by every official who does well and against every official who fails to do well. Any other attitude is a servile attitude.

"Let us quit being content with feeble mediocrity. Let us demand really first-class efficiency in both preparation and performance. That is the only way to do what we must do and see this war thru to a triumphant conclusion."

And we note in February 22nd issue of *Wallace's Farmer*, the same view:

"No government official should object to having his work investigated and criticised if criticism is deserved. The fact that he resents such investigation by the representatives of



Also winner of first and shape special at Madison Square Garden, 1917-1918, and first shape and color special at Providence, December, 1917.

ruling will prevent the killing of some laying hens and thereby secure the eggs that they will lay. However, the probable major effect will be to increase the price of present storage stock and to congest the live and dressed poultry market after the law is lifted, with consequent reduction in price to producer, a condition which legitimate cold storage facilities might not overcome, or monopolistic speculators might take advantage of, in which case both producers and consumers will lose. It will tend to further frighten producers who are already alarmed on account of the shortage and high prices of feed and fuel, difficulties of transportation, and uncertainty as to future price fixing. The inevitable result will be less eggs incubated, less chickens reared and more mature stock,

the people is prima facie evidence that he is not the right man for the place he is filling. We are in a life-and-death struggle, the great battle for the ideals of Christian civilization. Incompetents must get out of the way. Explanations and excuses are not acceptable. We must have results, and men who can get results.

"The farmers of the country will have no patience with destructive criticism, or mere fault-finding. They will hold to strict account those whose criticism is for the purpose of holding back war preparation and thus giving aid and comfort to the enemy. But they will stand firmly back of their representatives who expose incompetency and drive out the inefficient."

Albert Shaw, the editor of *Review of Reviews*, in the March number, expresses himself forcibly on the same subject, as follows:

"In these days when every mistake means the death of brave men, we should be very cowardly, if we shrank, from telling the truth merely because to state the facts might imply criticism of somebody.

"Officials should not be sensitive in War times except upon the one point as to whether they could not best serve their country by insisting upon the acceptance of their resignations."

It is over a year now since Mr. Hoover issued his first appeal to the poultrymen of the country to speed up production. It did not fall upon deaf ears or unresponsive hearts and yet we face the fact that day by day, week by week, and month after month strictly commercial poultrymen have been forced out of the business and those that have weathered adverse conditions up to now instead of increasing the size of their flocks have reduced them at least 50 percent, until it is estimated that in Pennsylvania alone there are 5,000,000 less mature fowl than the state maintained two years ago. So much for the first year's campaign for increase production.

Is it possible to conceive that if Mr. Hoover's advisors, aids, and assistants in the Poultry Division represented experience, ability, foresight and grasp of the essentials, that we would today be facing a serious shortage?

There has been ample time to have placed poultry production on a foundation, not necessarily promising "unprecedented prosperity," but guaranteeing a living profit which in turn would automatically bring about the desired increase in production.

Up to the present the *only* foundation offering security—either a lower feeding cost or a higher selling price, has been denied. True, the former has been promised, but, due doubtless to conditions temporarily beyond control, has not yet appeared to a degree affording any real relief. The latter, despite the prevalent impression to the contrary, poultrymen do not demand.

Instead of \$1 per dozen eggs when they have few eggs to sell and 50 cents per pound poultry at a time they have few fowls fit to market, they much prefer a stabilized market that will forbid the disastrous spring slump in eggs and provide a remunerative price for market poultry at other than special seasons.

They realize that too high prices to the consumers curtail consumption and demand, just as the Food Administration ought to know that increased production cannot be brought to pass unless producers can see their way clear to financial returns at least equal to the cost of production.

Labor is protected by the Government; the packer is protected; steel products, sugar, wheat, and copper are protected, but the producers of poultry meat and eggs, representing far more in money value than any of these save labor and vastly more urgently important in the present and impending food shortage of the world, remain absolutely without protection and at the full fell mercy of the profiteers in food stuffs and cold storage. *Why?* Primarily, because the true attitude of the Food Administration to the great Poultry Industry is, not consciously but subjectively, precisely the same attitude manifested by business men in other lines of trade and industry having no relation to the poultry business, and millions of poultry product consumers.

To the average citizen and the aforesaid business man, the poultry industry as an important National Industry is *non-existent!!* It is but a fad, a fancy, a hobby, a farm wife's side line, a millionaire's amusement, but only a d—fool's sole occupation.

They will open their mouths in amaze when told that the annual trading in the poultry products of the United States represents nigh to a billion dollars and that no single product of the soil, output of mine or factory equals the poultry industry in financial importance—but will swallow the words with a grain of salt and never sense their savor.

Speaking of the part the American hen must play in the war, the *Wall Street Journal* recently eulogized her as follows: "She is not near maximum production when she turns out two billion dozen eggs a year, equivalent to that many pounds of meat. What would that much meat look like on the hoof? Imagine three million head of cattle and you come near it. That may be worth crowing over, but Biddy does not crow! Neither does she rest. Instead, she devotes time to production of poultry meat, weighing two billion, five hundred million pounds, equivalent to twelve million five hundred thousand squealing pigs dressing two hundred pounds each. The civil population can eat this enormous mass of food and save



Second prize S. C. White Leghorn hen at Greater Chicago Show, January, 1918. Owned by Meadow Lark Farm, Box 3, R. 3, Elgin, Ill.

beef and pork to nourish the fighting men to go over the top. Meat, not talk, will win the war. The American eagle may scream at the front, but the American hen adding to the meat supply is capable of doing a big bit in winning the fight. *Why not encourage her?"*

The Food Administration have given ample evidence of appreciating the importance of the hen and figures quoted by this Wall St. scribe may have been furnished by Washington, but nevertheless their knowledge does not go any deeper than statistics or otherwise the encouragement solicited would have long since materialized.

In their campaigns of publicity and pleading for increased production as "a patriotic duty," they officially recognize what she has done and what she is capable of doing and place her in a class by herself as superior to wheat and steel and copper and sugar and the payroll, in that they regard her as *needing* neither encouragement nor protection, but on the other hand to be closely watched and securely yarded lest she fly the coop and demand for her lightly prized products prices "above a reasonable maximum."

Let us for the purpose of establishing our present conten-

tion that Food Administration, while sincerely and consciously exploiting the hen, sub-consciously depreciates her importance and absolutely disregards her interests as a *business* proposition, review briefly a few of the several outstanding activities of the Poultry Division indicating this attitude of mind.

Just about a year ago the appeal went forth from Washington for increased production of poultry products. Poultrymen, farmers and back-lotters were prompt to respond and increased millions of pounds of poultry were produced, but with greater demand up soared the price of all feeding stuffs. Never was grain higher nor market poultry lower. Storage houses stocked up to their capacity at 15, 16 and 17 cents a pound that did not cost the producers less than 25 cents. But it is to be remembered that the great proportion of the increase of poultry came from novices in the business and alarmed over the mounting costs of feed, they wanted to get out "while the getting was good."

The sub-conscious mind must surely have been on the job, when in answer to the protest of the New York dealers in live poultry, the Administration justified this order in the following statement: "To us the killing of hens just before and during the heavy spring lay is a wasteful practice—just as wasteful as the killing of fresh milk cows for beef; and we are appealing to the farmers from a patriotic standpoint *not to sell these hens while laying freely.*"

Evidently they have a poor idea of the farmers' or poultry-

man's mentality. Why in the name of common sense should a hen have been fed all thru the winter at a cost of not less than 1 cent a day, only to kill in the spring "*while laying freely.*" Investors do not rush to sell interest paying securities. Evidently the fall campaign to weed out the slacker hen, the non-producing pullet, the old fat hen and the surplus rooster in order to *reduce the cost of production* was lost sight of. Likewise the urging of early hatches in order to produce pullets that would begin to shell out the eggs in the late fall and early winter, the season of greatest scarcity. But possibly that sub-consciousness was still active and it seemed quite reasonable that pullets and hens could be pushed for winter eggs and yet continue to shell them out "*freely*" in the spring clear up to the Jewish Passover.

However let us hope that good may come of what evil is spoken of. This Rule 14, foredoomed to defeat the very purpose of its enactment, namely the conservation of laying hens and the substitution of their output for "red meat," has aroused poultrymen to give voice to their grievances. Hitherto they have suffered in silence misunderstood, and their sacrifices, in their effort to do well their part in this war for food, to a great extent not only unappreciated but unrecognized. Perhaps their belated protests will bring the urgently needed help and consideration and 1918 may yet exhibit a splendid showing for the American hen and the energy, efficiency, and patriotism of the American poultryman.

How to Make Chick Growing Easier

Efficiency in Supplying Green Food, Water and Dry Mash, Methods of Dealing with Feathered and Four-Footed Pests, Diarrhoea and Gapes.

By Maurice H. Decker, La Porte, Ind.

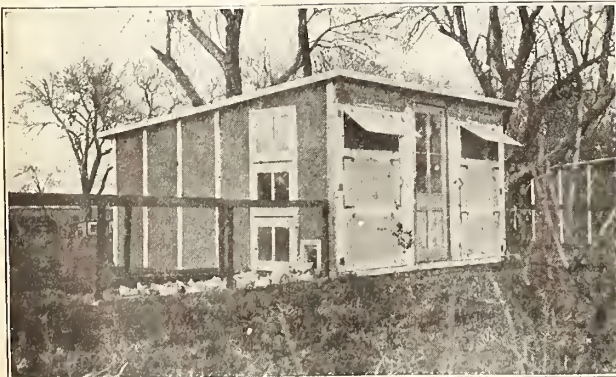
EARLY hatched chicks that have been more or less closely confined to the brooders during the cold and stormy weather that prevails prior to April first, should now be gotten out upon the ground as much as possible. Chicks confined upon board floors never grow or thrive like those with ample opportunity to get their feet in actual contact with the bare ground. Before the chicks are old enough to be trusted to seek shelter in case of sudden storms or thunder showers, a little forethought will enable the poultryman to avoid serious losses from these causes with a minimum of confining care and attention. A reliable barometer should be part of every progressive poultry keepers' equipment, as it will enable him to keep a fairly accurate tab upon the approaching weather changes and eliminate all indcision and hesitation as whether the flocks should be turned loose or kept confined to the brooders each morning. The last thing we do before we leave our chicks for any length of time is to look at the barometer and if it has begun to fall, in go the flocks at once.

We feed our chicks mostly in their brooders, even after they have been turned out a couple of weeks, for if they are accustomed to receiving their meals inside, it is an easy matter to coax them all in with a little feed. Never attempt to rig

up any shelter out in the brooder yards until the chicks are well feathered out. They will usually run for the nearest shelter in case of a storm and, considering the temper of the majority of our spring storms, the only safe place for the chicks is inside. All brooders with removable lids or roofs should be fitted with strong hooks and eyes or these covers may be blown off and the chicks deluged with rain. We even find it necessary to stake down our small brooders and colony houses, for we have wind storms that would roll them over and over as easily as a feather. We drive down two large flat stakes at each front corner and nail them securely to the brooders.

The cockerels should be removed just as soon as they can be picked out. The pullets will grow much better and the cockerels themselves will prove most profitable when marketed at the earliest weight possible. Each succeeding pound, after the first two, costs considerable more to put on, and beside the prices for young fowls decline steadily after the month of April.

We should encourage growing chicks to eat all the green food they possibly can, as by doing this we will save much of the more expensive grain and produce hardier chicks as well. Growing chicks, as well as laying hens, will consume green feed in quantities up to as much as one-third their total ration with excellent results in health, growth and production, and in doing so lessen the cost of an all-grain ration one third to one-half. After the chicks are given outside runs the best and easiest way to supply them with green stuff is to keep it growing in the yards. When large flocks of 300 to 400 chicks are brooded with the coal-burning brooders it is comparatively easy to supply each brood with two, three or even four separate yards. These yards of a fair size for the same number of chicks, separated in flocks of fifty, would require an equal amount of ground with considerable more fencing. Green crops can be planted in these yards which will supply a continual growth of greens until the snow flies in the fall. Oats are fine for early spring, rape and sweet corn fodder for early summer, turnips can be sown in mid-summer and rye in early fall. These may be planted separately or mixed together and will yield heavy returns in poultry meat and good health. The best green crop we have ever seen or used is grown from a hog pasture seed mixture which is sold by some of the large



When the brooder houses sit in a row it is easy to put the outdoor runs between the sides of two buildings. The coal-burning stoves give ideal results in well-lighted, well-ventilated houses.

seed companies and which is composed of about twenty different varieties of forage plants, including amber cane, turnips, oats, rye, broom corn, speltz, peas, beans, rapc, vetch, millet, etc. This is balanced and assorted with the purpose of furnishing a continual and steady growth of green fodder, many plants of which will grow as fast as they are eaten off, provided, of course, the chicks do not dig them out roots and all. These mixtures have the added value of furnishing an almost unlimited variety for the chicks and they will not become tired of them as they do of one sort, such as rye or oats. The plants are also rich in protein, something lacking from the usual green crop grown for chicks. The chick yards being rich in nitrogen, this mixture will make a rapid heavy growth and by planting three or even two fair sized yards at intervals of two or three weeks, the chicks will have something to keep them busy all summer. We believe 100 pounds of chick grains or chick mash will go as far when the fowls have access to a pasture of this nature as 150 pounds will fed to chicks upon bare range. Seed mixtures of this nature should be treated with inoculating bacteria which is necessary for a heavy growth of the legumes they contain. The special mixture prepared for vetch, field peas and beans is appropriate.

Up until this year we have always had considerable trouble in finding the proper equipment for feeding our chicks water and dry mash without continual attention and waste. We are now using a number of steel troughs which, altho not perfect, are by far the best thing we have tried. These troughs are about three feet long, $3\frac{1}{2}$ inches wide and $2\frac{1}{2}$ inches deep, are riveted together in pairs and being made of reclaimed metal are very low-priced. We make wooden covers for them out of half-inch stuff, with one-inch holes bored along the edges an inch and one-half apart thru which the chicks eat and drink. We put water in one trough and dry mash in the other, set the covers on and let the chicks help themselves. When the mash is nearly all consumed and begins to be mixed with litter we feed it to the older fowls and put in fresh for the chicks. A small wooden partition can be put in one side and the trough used for serving charcoal and grit or oyster shells. The chicks cannot pull the feed out thru the holes and waste it, neither can they get wet while drinking.

Every spring the poultry raiser is troubled with feathered and four-footed pests which eat his grain and mash, introduce and distribute lice and mites among his buildings and harass his chicks and grown fowls. We have found the most effective weapon for dealing with these intruders is a small caliber single barrel shot gun of 41 bore or .44 caliber which shoots a paper shell loaded with a small charge of powder and shot. These weapons are far superior to the small caliber rifle commonly used for this purpose, as the spreading charge of shot makes close aiming unnecessary and their range being short, there is little danger of accidents from a poorly aimed or glancing bullet. Their report is light and possessing no recoil or "kick" they are entirely suitable for boys or women to use. These guns are inexpensive, the ammunition can be cheaply reloaded at home if desired, and all told they form one of the most effective means for cleaning up the poultry yard and farm premises we have ever used.

Our two most common chick ailments are gapes and diarrhoea and altho these disorders are largely preventable with a few simple precautions, they annually are the cause of serious losses of chicks. Diarrhoea of the common variety can be prevented by first seeing that the baby chicks are neither over-heated or chilled the first few weeks of brooding. We have found a dependable coal-burning brooder of large grate diameter set in a 12x12 ft. building will attend to this. Second, by feeding nothing but sound grain, free from mustiness and "heat." This is a matter of judgment upon the part of the poultryman and a clear understanding of the correctness of the phrase "the best is always the cheapest." When chicks are raised upon the same ground, year after year, gapes are of common occurrence and may be expected to appear regularly. As is the case with most other poultry ailments, measures to prevent gapes are better than to attempt to cure individual cases. If the brooders and brood coops are placed upon fresh ground or if the old ground is given a coat of lime, plowed up and planted to some green stuff as mentioned before, there will be no trouble whatever with gapes. We have not had a

case in the past six years when previous to that we suffered severe losses each season. Chicks that already have the gapes should be fed upon soft feed in which has been mixed a liberal quantity of young onions, tops and all, chopped up fine. Their fumes will so affect the parasitic worms that infest the walls of the windpipe that they will loose their hold and the chicks are able to cough them up. Cases that are not too far advanced may be cured in this manner with a minimum of trouble for the poultryman.

One of the most common causes of poultry flocks failing to prove profitable is the use of breeders which lack the necessary sturdy health and vigor. A fowl which has at any period in its life suffered from any serious disease, or has suffered a setback in growth and development thru unfavorable conditions, should never be used in the breeding pen if permanent success is desired. Tendencies to susceptibility to disease and disorders are transmitted from parent to offspring as surely as tendencies toward heavy laying and quick maturity and by



careful culling all individuals that show undesirable qualities, the poultryman can gradually build up a hardy strain of fowls which will prove practically immune to the commoner poultry ailments, so long as the individuals are accorded reasonable care and management. To make sure of the fowls used for breeders all the undesirables should be promptly and accurately marked in such a manner they will at no time in the future be mistaken for an eligible. This may be done with little trouble and expense by using red celluloid leg bands which slip upon the fowl's leg after the manner of a key ring. These are obtainable at low prices in many sizes to fit any fowl or breed from a day-old chick to a full grown Brahma, and a supply of several sizes should be kept on hand. Then, when one detects a fowl which is not doing its best, it can be permanently marked with one of these bands whose color constantly sounds a warning against the individual's desirability to perpetuate its kind. Bands of blue color can be used in the same manner to distinguish fowls that are doing exceptionally well and the bands can be saved and used from year to year. Fowls whose legs are banded when young should be examined at intervals to discover if they are outgrowing their bands, in which case a larger size should be substituted.



Silver Gray Dorking cock, "Purity." First and special as cockerel at Buffalo, 1915; second prize cock at New York, 1918. Owned by Watson Westfall, Sayre, Pa.



Silver Gray Dorking cock, "Major III." First and special prize cock at Buffalo, 1915; New York, 1917 and 1918; Syracuse, 1917. Owned by Watson Westfall, Sayre, Pa.

Breeding and Judging Silver Gray Dorkings

By Watson Westfall, Sayre, Pa.

IT IS now approaching thirty years since we first took up this grand old fowl. We have made a faithful study of them during all this time and in this article will endeavor to tell some of the things we have learned, especially as relates to breeding and judging. These days we hear much about double matings; about pullet-bred cockerels and about cockerel-bred pullets and the like; but none of this applies to Dorkings, we are very pleased to know. The best male to breed from is the one that is nearest to Standard every time and a good Standard male may be depended upon to do his part in producing both sexes show birds.

SELECTING THE MALE—THE COLOR.

In points of color (especially on cock birds) his black parts should be as free from white as possible and his white parts as free from black as possible, with the lines dividing the two colors as clean cut and as distinct as possible. The white parts should be a silvery white, not a brassy, creamy or dirty white, and the black parts should be a greenish black and not a purple or bluish black. Our Standard gives the undercolor as a slaty gray. This we find correct for the female, but quite far from right for the male. Examination of a good male will show a white base to his black feathers and a black base to his white feathers and the stronger he is with his surface colors the deeper down and the less will he have of the base colors. With a weak colored male there will be an excess of the base colors and the weaker he is with his surface colors, giving splashes of white on his breast and stripes of the black in his hackle.

THE FORM.

In points of form: On a side view he should look long, with a big proportion of his body in front of his legs. Tak-

ing a line from the base of his hackle to point of his breast and from base of his tail to the base of his rear parts, the distance should be equal and any failure of the breast measure to equal that of the rear is just that much short of a correct form. On a front view he should look broad, with no appearance of flatness to his breast, but on the contrary, very full and nicely rounded. His tail should be carried moderately low so as to help in showing a long back. The back should be long and broad, not merely broad at the shoulders, but should hold out width from front to rear, making all in all a square, full, blocky shape form. Or, as the Englishman has said, a "cart-horse type." The legs should be short and well set apart and the fifth toes of good length. The toes should turn up the leg slightly and also backward enough so that the spurs grow out in front of the toes.

SELECTING THE FEMALES—COLOR, ETC.

We say females, because on this side there are two quite distinct types to be considered. One will be intended to breed best males and the other best females. It will not be difficult to note these two separate types and especially where a good Standard colored male has been bred from for any length of time. The female breeder, like the male, should be the best Standard color to be had. Her wings and back should be very finely stippled and quite free from shaft lines, giving an even color of bright silvery gray. Her breast should be a bright salmon-red shading to gray at the sides and practically free from mealiness or edgings of a lighter color. Her hackle, where she differs mostly from her sister breeder, should be very distinctly striped, which is a most important show point, as it helps so much in giving the great contrast so much wanted between the colors of the hackle, breast and back. The male breeding female, color, etc.—Her back and wings

should be as finely stippled as can be had. Her hackle should be as white and as free from striping as can be had and her breast should be as rich and pure in red and as free from mealiness or edgings of a lighter color as can be had. Now as for color of this male breeder, she need not necessarily be of the finest shade of silvery gray, but her marking (stippling) particularly over the back should be fine and her breast must be a rich red, even tho the red runs up in the lower part of the wings. In general appearance the exhibition female will look darker than her sister breeder, mostly because of her striped hackle. There will always be more or less of these light colored females, but only those having good color on breast should be used as breeders, as a mottled breasted female will be very sure to breed the same thing in her males. On account of good breast color many of the exhibition females will breed good pure breasted males, but their top color does not come pure enough in white.

JUDGING SILVER DORKINGS.

During the time we have been exhibiting Dorkings since 1892, we find that thirteen different judges have placed the awards. Four of them were Englishmen, two were Canadians and the remainder were Americans. Now just why it seemed to be necessary that either an Englishman or a Canadian must judge our fowls in order to have it a success I at first could not understand, but at last the real reason became very plain. I noticed that the English or Canadian judges would be sure to take a good look at the Dorkings, but rarely ever would I see an American judge look at them. Again early in the 1900's, another English fowl was introduced in America, the Orpington, and the same difficulties have taken place as to judging them. No one ever sees an American judge earnestly studying these fowls and how, therefore, can they expect to successfully judge them. Surely if a boy in school simply studies a part of his lessons he won't be apt to know much about the ones he does not study. Certainly it does require some study to even judge a chicken correctly and the Dorking and Orpington are not excepted. America (like in everything else) surely has some of the best poultry judges in the world and no mistake, but regardless of their claims to judge all varie-

ties they are, as a matter of fact, too much specialists. Just go over among the Rocks, the Reds and the Dottes, if you want to see them study. There you will find them digging up the undercolor, counting the bars and the spangles and they don't ever seem to get tired of it. Now if some of them had ever spent time digging up the undercolor of a Silver Dorking they would have known that the right color was not slate. But now just one sample to show how little they study this particular fowl. One year the Canadian judge, Mr. Oke, was not among the judges in New York and a prominent American judge had the Dorkings—a nice class of 5 cocks, 10 hens, 5 cockerels and 8 pullets. The thing noticed was, he was not handling any of the birds at all and when spoken to about it his very surprising answer was that none of the meat breeds required handling. When his awards went up, it was found the cock he gave first had wing flights more than half white. That the third hen was decidedly more brown than gray. That the third pullet was very plainly disqualified because of a lacking of properly formed fifth toes. Also that the first pullet was exactly like one of the hens and this hen got no prize at all. Now we are liberal enough to admit that it does not take the greatest amount of study to judge the male class fairly well, but this is not the case with the female class. As we have already explained, there are two quite distinct types on the female side. One is the female breeder, which is for exhibition, and the other is the male breeder, which should be left at home, but many times is not, and here is where the unlearned judge gets mixed. Several years ago a pair of Silver Dorkings was sent from England to compete in the New York show. Our American judge made the cockerel second and the pullet first. Now in our humble opinion this pullet was the kind to leave at home. She was very weak in both hackle and breast color and the stippling on her wings and back was very coarse. The best we could make her was third and the Englishman who brought them over admitted he was fairly beaten. Now, the color of these male breeders is quite far from Standard requirements and have no right to win over regular exhibition specimens any more than a cockerel-bred pullet of the Barred Rock breed has a right to win over exhibition females. A good exhibition female will



Second prize Barred Plymouth Rock cockerel, Chicago Coliseum Show, December, 1917. Owned by D. F. Palmer & Son, Box 35, Yorkville, Illinois.



Second prize Barred Plymouth Rock pullet, Chicago Coliseum Show, December, 1917. Owned by D. F. Palmer & Son, Box 35, Yorkville, Illinois.



FIRST PRIZE, PEN 5 CWH LEGHORN MADISON SQUARE GARDEN N.Y. 1917-18, BREED & OWNED BY D. WYOLING MONROE, N. Y.

THE ABOVE GROUP REPRESENTS FIRST PRIZE PEN IN SINGLE COMB WHITE LEGHORNS AT THE LATE MADISON SQUARE GARDEN SHOW, NEW YORK CITY, WHERE MR. YOUNG WON 1-2-3 COCKS, 1-4-5 HENS, 1-2-3 COCKERELS, 2-3 PULLETS, 1-3 PENS.

have the color of her hackle, breast and body as distinctly different as possible, giving the great contrast in color so much wanted, while the other female will be quite the opposite, her colors all fading to gray and approaching more to a sameness on all parts. Some judges are very serious when they see any white on the ear lobes. We wish this section had been left as the old Standard had it, which simply gave a preference for the pure red. We fully believe the partially white lobe rightfully belongs to the Silver Dorking. Surely if we get rid of it we then can't say they lay a pinkish white egg,

because they won't. The color will be changed, as some are now, to a light yellow. The lobes on most females do not show their color because of being quite small and also folded up. I suppose this is why they have fared better than the male, whose lobes show more plainly. I should object to a large prominent white lobe, but never to a small lobe only partially white. The Dorking has well earned the reputation of being the greatest table fowl and we say, wise is the man who invests in them and especially just now when good meat is so extremely high and scarce.

Rose Comb R. I. Reds—Why I Breed Them

The Handwriting on the Wall Proclaims the Future of the Breed.

By J. E. Moore, Princess Anne, Maryland.

IT WOULD be hard to say much about the Rose Comb Rhode Island Reds that has not been said many times before, but it is like a good story, worth telling over, so what appears here to be worn out from the telling, please bear with me and remember it is for the good of the grandest breed of fowl that have ever been bred.

My experience with poultry goes back over many years. Well do I remember the first I ever raised, they were Black Breasted Red Games; I bought two settings of eggs and with what interest and care I placed them under the hens that were to hatch them, and when they hatched what a spry little bunch, but "woe is me," for it was not many days until they found they had bills to pick with and that there was Irish blood in their veins, and it was fight from morning until night. It kept me busy with a vaseline bottle in my hands greasing sore heads and prying open blood-covered eyes, but after all when they were matured the pullets got on well together and were good layers of extra large eggs. I soon tired of them and changed to R. I. Reds (we would call them Buffs now). I liked them, but they did not come up to my expectations (I expected much then), so I changed to another breed, which proved good winter layers and were hardy quick-maturing fowls, but I soon tired of them, went back to the Reds, the Single Comb variety. That was seven years ago.

I bought an eight-acre farm, the house on the bank of a river, a mile wide. I built two large poultry houses; all the buildings on the place were painted white, the land was all green with grass and alfalfa and when I turned that flock of Reds out and gave them free range of the place, I realized I had found the breed that I had been looking for. They had the color that nature intended to fit in with the white buildings and the green fields, it made a picture that was restful to the eyes. I then made up my mind to stick to the Reds and began to breed with type and color the main objects, but soon I found when I had a good specimen in type and color there was the comb to be reckoned with. Some were ungainly in size, some had sprigs, thumb marks or were too lopy, so I changed to the Rose Combs and have never regretted it, as now I think I have the ideal fowl. I think we would have a hard time to show the public just how the beautiful rich red color and the oblong bodies of the present day Reds were evolved from the original Reds of the Little Compton district.

Now as to some of the good points of the Rose Comb Reds. They rank with the best as standard market poultry. Baltimore is considered one of the best live poultry markets and many times my Reds have sold there for from two to three cents above the market quotations, especially during the Jewish holidays, the Jews are excellent judges of table poultry and buy only the best the market affords and appreciate the quality of the Reds. The Reds hold a place in the "king row" among broilers, squabs and green roasters and even a two-year-old hen when roasted is as juicy and sweet as some green roasters.

The yellow skin, the plump bodies, when properly dressed and placed on the butcher's counter, is an awful temptation if you have the price in your pocket. As a breed they mature early, possess stamina, and the pullets will lay at five and one-half months of age if properly handled and will produce as many or more eggs as any other breed.

Much has been accomplished along utility lines with the

Rose Comb Reds. Each year more of them get into the two hundred egg class. Not many years ago in the best flocks in the country, out of one hundred pullets held over for breeders you would only find eight or ten that were of the same color and fit to go in a breeding pen, but today it is different, you see whole flocks all of the deep even red color and alike in shape. By scientific breeding all obstacles can be overcome, it has been the rule to mate imperfect birds to produce Standard specimens, aiming to overbalance the defects in mating them so as to overcome the imperfections. Buff specimens are rarely met with any more and smut peppering and shaftiness are being overcome.

But the Rose Comb breeders of today are looking farther than type and feathers. It is the utility side of the breed that is paying the feed bills. The disposition of the Reds along with their being good foragers, good setters, and good mothers, make them a very desirable breed for the back lot raiser, as well as the commercial poultry farm. In fact, they seem to fit in anywhere you put them.

Some time ago I sold a dozen and a half hens to a man who moved to Edmonton, Alberta, Canada. He took them with him in a freight car and the weather was very cold. Tho shut in close quarters, they kept him and his brother (who went in the car with him) in eggs to eat for the entire trip, and in his letter to me he says he could not see as moving them interfered with their laying in the least. This plainly shows how easily the Reds adapt themselves to circumstances and that their combs are practically immune to frost bite.

In breeding Rose Comb Reds one will occasionally run up against a snag, as he will with any other breed, for instance in the winter of 1916 I purchased the first prize pullet and first prize cockerel from one of Maryland's best shows, claimed to be from a mating from the first prize cock from one of the country's biggest shows, I mated this pullet and cockerel and what I got from them are fine for type and they have the good dark red color, but not a feather on them, *just fur*, and for prime quality they have a mink beat a mile. I intend to breed the pullets back to their father and hope when they go thru a molt they will have feathers in place of fur, as they have proved to be wonderful layers.

In the Rose Comb Red we have the greatest fowl of all time in my estimation and their increasing popularity is easily accounted for. Take the Reds out of any of the shows and note what a vacant place it would leave, and again, what other breed brings the fancy prices for high class show specimens as the Rose Comb Reds do?

Why do I breed them? Because I can see "the handwriting on the wall" that they have a great future in front of them.

If I were a sculptor I would make a life size image of a Rose Comb Red and have it on a pedestal at the entrance to my house.

Yes, I believe in the future of the breed.

If the capable and productive Little American Hen were treated as an "enemy alien," she might be living on the fat of the land in luxurious idleness. Madam Hen, being only an unassuming, hard working, staunch and reliable patriot, gets but scant consideration and is not appreciated. Madam Hen and her value to the Nation need to be well advertised in the right way.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1896, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

SUBSCRIPTION PRICES.

United States, Cuba, Mexico and United States Possessions (except Chicago).....	1 Year 12 issues	3 Years 36 issues
Canada .....	.85	1.75
Foreign	1.10	2.50
Chicago .....	.75	1.50

Chicago, Canadian and Foreign subscriptions require additional postage and therefore the slight difference in prices.

TRIAL SUBSCRIPTIONS—In order to acquaint prospective subscribers with American Poultry Journal, we will mail one copy a month for six consecutive months to any point in the United States, its possessions or to Cuba or Mexico for 25c. The trial subscription offer (6 months for 25c) is for new subscribers only and not subject to renewal for a period of less than one or three years.

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TRADE MARK REGISTERED,
No. 74,059.

Issued the first of each month.

Published by

**American Poultry Journal
Publishing Co.**

JAS. W. BELL, President,
542 So. Dearborn St., Chicago, Ill.

Editors.

JAMES W. BELL,
PRINCE T. WOODS.

PRINCE T. WOODS, M. D. Managing
Editor, Silver Lake, Plymouth Co., Mass.

HELEN T. WOODS, Editor Woman's
Dept., Silver Lake, Plymouth Co., Mass.

Advertising Representative,
E. G. ALDRICH.

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63,000 American Poultry Journals for
April, 1918.

State of Illinois, County of Cook, ss.:

Chas. S. Peterson, secretary of the Regan Printing House, Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 63,000 copies of the April, 1918, issue.

CHAS. S. PETERSON.

Subscribed and sworn to before me this
22nd day of March, 1918.

(SEAL)

ALICE A. SHEHAN

Notary Public.

Packing the Poultry Industry

Reader, if you bought an 8-quart can of milk and, on emptying it, you found a live trout flapping in the bottom of the can, would you not consider it as pretty good evidence that somebody had watered the milk?

Rule 14, which places the ban on selling hens or pullets alive or dressed for food purposes, until after April 30, has developed some interesting results—trout in the bottom of the milk can, so to speak. In the first place it promptly shut fresh-killed dressed poultry off the market and removed all real competition of cold storage poultry. At the same time there developed an officially conducted campaign to educate consumers to "Eat poultry and plenty of it." A singular coincidence: the poultryman's fresh-killed fowl forbidden the market; cold storage poultry jumping to prices higher than ever before known; the producer frozen out and not permitted to sell; the public urged to buy and "eat poultry and plenty of it." Quite a string of fish!



Mr. Priebe, in charge of poultry and eggs for the food administration, was quoted in newspapers as predicting an egg famine, said that by January 1, 85 percent of supply of cold storage eggs was consumed, and other 15 percent would soon be gone, with no relief in sight. Urged the public to stop eating eggs. This "information" given wide publicity in newspapers. Eggs then 75 cents per dozen. Watch the next fish please. In the brief seven days ending March 3, the egg market goes to smash. In New York City eggs made a sensational tumble of 27 cents knocked off the wholesale dozen price. In our market eggs dropped from 70 cents to 43 cents during the week and hit 40 cents at present writing (March 7). Poultryman in Wisconsin reports on

March 4 getting only 40 cents, with 35-cent price in sight and markets indicating a 25-cent price soon. Similar reports from all over the United States. March and April are the months when packers buy up eggs for cold storage and insist on buying them cheap, no matter what they may cost the poultry keepers to produce. Same official predicted last fall that January 1 and thereafter grains and feeds for poultrymen would be 40 to 50 percent cheaper than 1917 fall prices. Grain prices have gone up and seem to be going higher. Yet we are forbidden to sell our fowls, which should be sold, and are told that the food administration wishes to "encourage producers." Drastic interference and persecution is grand encouragement, is it not?

Let's get another trout on the screen. Prof. F. H. Stoneburn visits Mr. Priebe and reports that Mr. Priebe wishes wide publicity given to the statement "that this Rule No. 14 was 'fathered' by the Department of Agriculture and only 'adopted' by food administration at the request of the parent." "Passing the buck!" A friend of ours in Washington called upon Harry Lamon, of "Poultry Investigations," Department of Agriculture, and advises us that Mr. Lamon knew absolutely nothing about Rule 14 until he received a copy of it. It is positively asserted that the rule did not originate in the Poultry Husbandry Division. Where did that Rule 14 originate? The "buck" keeps passing. We pass on to the Chemistry Division and find that Dr. Pennington has for a long time been in close touch with the packing interests and the wholesale butter, eggs and poultry trade. The Doctor was author of a bulletin or circular, widely quoted, recommending as a matter of economy housewives use cold storage or frozen poultry; urged the housekeeper to buy storage packed frozen chickens by the box of a

dozen or more chickens, and let them thaw out in the family refrigerator to be used as wanted. We have always wondered why consumers were urged to buy large quantities of frozen poultry, which spoils quickly, in preference to good, wholesome, fresh-killed stock. Then there was that little matter of prohibiting shipments of ice-packed poultry and the strenuous objections to chilling fresh-killed fowl in ice water. The urging that dressed fowl must be dry chilled. No one but a packer, or a big killing and dressing establishment, can afford to maintain a dry-chilling plant. If such regulations should be forced, the poultryman would have to sell all his fowl alive to the big killing and dressing establishments. Have we located a trout this time?

Now Attorney Heney, of the Federal Trade Commission, investigating the big packers, presents a whole creel full of trout, see evidence printed in *Chicago Tribune*, February 26 to March 6, inclusive. Atty. Heney presents as evidence some most interesting and enlightening letters seized from packers' files. He claims that half a dozen or more of the volunteer "dollar a year men" on the food administration are "confidential men" in employ of the big packing interests on salaries around \$10,000 a year and extras besides. Atty. Heney very confidently alleges that Mr. Priebe has been in the employ of the packers for some time and has been especially active in the campaign against small concerns. He alleges that this gentleman's "independent" plants are in reality owned by Swift & Co., and that they have been operated under "dummy" names "to fool the farmers and the public." The investigation has not been completed, yet all this may be labeled "interesting and important if true."

Of course it will be urged, and rightly, that we need the most experienced men we can get in an important body like the food administration. Yet it does seem strange to select a "big business middleman" when we have been cautioned so much from headquarters about "middlemen" and "speculators." Unfortunately for poultrymen, the food administration's acts to date have not been encouraging to poultrymen, they have seemed to favor always the packers' interests, and have demonstrated not only a great lack of sympathetic understanding of poultrymen's problems, but have also displayed a gross ignorance of the regular routine business of practical poultrymen and of the poultry industry as a whole from a producer's standpoint. This failure to gain the confidence of the poultryman, this attitude toward producers which has led them to feel that they cannot expect to get simple justice and a square deal, is not confined to poultrymen alone, it reaches into all branches of the live stock and agricultural industry. It is a most unfortunate and disastrous situation at the beginning of the 1918 growing season, a year in which the nation needs the utmost in efficient production.

We need representation by real practical poultrymen, farmers and live stock men on the food administration. Men who have proved their right to such a position thru practical and successful work in food production—not as profiteering middlemen and distributors. If Atty. Heney's allegations are true, or even approximately so, then there are men in the food administration who should resign or be retired by popular protest, if for no other reason than to help restore confidence.

Messrs. Pinchot and Lasater, both men who had

the confidence of farmers and live stock men, were on the food administration but resigned last fall. We would like to know why. It was reported that they disapproved of the attitude of the administration toward the real producers of food, and the failure of the administration to render aid to prevent loss of the drouth starving cattle and sheep in the Southwest had something to do with it. The *Tribune* publishes a letter which Atty. Heney claims was addressed to Swift & Co. and signed by C. A. Hamilton, which reads in part as follows:

"I learn that the letter which Lasater wrote Hoover, in response to the latter's request for a bill of specifications, was a most severe roast upon the packing industry of the country. Mr. Lasater goes so far as to make accusations against one of Mr. Hoover's closest associates, and even says that this gentleman is directly connected with banks which handle packers' paper.

"The letter is a loud one, and its publication has been suppressed. * * * * If, as is possible, a copy of the Lasater letter should get into the hands of some of the gentlemen in congress who are always looking for ammunition with which to attack the packing industry, it may lead to further congressional investigation and further embarrassment to business."

These "trout in the milk" do not look right and do not smell right. Neither does it look well for the packers' attorney to refuse to allow the commission to see certain correspondence on ground that it might bring criminal proceedings against his employers. It is not so very long since the Spanish war and some of us can remember the packing house scandals of that time, the "embalmed" beef, our sick and dying boys in camp, and the investigation which came to nothing and was hushed up. It looks as if we need to clean house to make America "safe for democracy." If there is any truth in Atty. Heney's allegations before the Federal Trade Commission give us the whole truth, and then apply the remedy. We will make much more progress toward winning the war if we have a clean slate, clean hands and a clean bill of health. Either we have been told too little or too much.

How "The Trade" Does It

If the producing end of the poultry industry had a really progressive, practical, and down-to-date national organization, something worth while toward putting the business on a substantial foundation might be accomplished. We need right now a united organization and the co-operation of all poultrymen, whether fanciers, utility breeders, egg farmers, market poultrymen, or back-lotters.

Our A. P. A., instead of getting down to brass tacks and really doing something for the good of the industry and to benefit real poultrymen, seems to be whiffing around with each wind that blows, adopting the methods employed by the Florida land sharks in "planting and selling orange groves to people who think they want to sell oranges," providing an income for its president, and muddling along in the same aimless way which seems to have become a habit.

We could learn a good lesson from the activity of the National Poultry, Butter and Egg Association, whose members represent "the trade" which handles and distributes the eggs and poultry sent to market. This association is conducting a vigorous, active campaign to educate the public as to the value of cold storage products. It is presenting a series of five-reel educational films in movie theaters thruout



Trapnests used on Bayville Farms, Bayville, N. J.

the country. Their film "Food Will Win the War," boosting cold storage foods, ran for several weeks in Chicago theaters, and it was reported that there was considerable competition for the bookings, a rare occurrence for educational films. Five copies of this five-reel film were sent to Boston to be used in local theaters, and "the trade" was assured that these pictures would "go far in assisting the consuming public to realize the benefits to be derived from cold storage products."

Can you imagine the A. P. A. doing anything really practical toward a national campaign, to urge the public to eat more "nearly" new-laid eggs and fresh-killed poultry direct from the producer? There was a much-talked about, much-paid for, market poultry and egg standard about to be prepared and published by the association, but we have never seen it, heard of anybody who has seen a completed manuscript, nor do we know when it may be expected to see the light, if ever. It must have gray hair and long whiskers by this time, it has been growing for so many years.

The National Poultry, Butter and Egg Association even advertises when collecting tithes for its educational campaign. A round rubber stamp is made to be used on all packages of packers or shippers who contribute and it bears this legend:

This
Package Has
PAID
Its Mite Towards the
EDUCATIONAL
FUND OF
THE NATIONAL
POULTRY, BUTTER
AND EGG
ASSOCIATION
Give It Preference

The tithes on every package will net a very satisfactory total, which will be used not only to keep up an effective educational campaign to stimulate consumption by the buying public, but will be employed effectively in maintaining committees to look out for all legislative measures which may affect the trade.

Mr. Producer, where do you come in? You need an effective co-operative association actively at work to look out for all producers' interests. You still seem

apathetic and luke-warm in this matter which vitally concerns your interests. An International Poultry Federation, a co-operative organization of poultrymen, is being organized with headquarters in Topeka, Kansas, to aid poultrymen in buying and selling. Have you done anything about it? Have you investigated? Are you establishing a local co-operative exchange? Do you still buy your grain, feeds and supplies at retail prices and sell your produce at wholesale prices, whatever you can get, set by "the trade?" If you will not make a strenuous effort to help yourself, you can scarcely expect someone to call on you and hand

Loyalty is an inherent characteristic of the human being. We are born with a spirit of loyalty. That spirit of loyalty is fostered and developed only by kindness and justice. Loyalty is like a sensitive high-powered motor, which will work well in three speeds forward and an efficient reverse. Give it a square deal and common sense consideration, and it will work well for you to the end of its days. Abuse and neglect it, and it simply won't work—or it may backfire and prove exceedingly dangerous.

Injustice and tyranny have never yet compelled or cajoled people into being loyal to their persecutors, or those who exploit their victims for personal gain. History is replete with records of revolt against tyranny and injustice, some successful and some not, but all recording loyalty unto death is the cause of justice and right. The parent cannot compel loyalty in his children, but if he exercises common sense in his everyday dealings with the children, is just, honest, fair and square in even little things, he will secure unswerving loyalty which grows stronger every day. Loyalty cannot survive distrust, loss of confidence, injustice and tyranny, when the one seeking loyalty is proved to be secretly working, or permits others to work, to the injury and disadvantage of the one expected to be loyal.

Loyalty is one of the finest traits in human character. It works both ways. If we would secure and keep loyalty we must be loyal to those from whom we expect it.

What Happened to Eggs?

POULTRYMEN are likely to remember the first week in March, 1918, for some time to come. Probably never before in the history of the egg business has there been such a collapse of the market—the bottom dropped out—we hope it will never happen again.

The early reports came from New York City, where it was said that un-



CHAS. NIXON.

The above is an excellent photo of Chas. Nixon, Washington, N. J., the well known breeder of White Wyandottes. Mr. Nixon is also a poultry judge of national reputation.

you large bunches of success on a golden platter. Why not wake up and *do* something?

Loyalty.

WHAT is loyalty? Ever since we can remember some people have been endeavoring to teach and to compel loyalty on the part of others. Loyalty to home and parents. Loyalty to the nation. Loyalty to the government. Loyalty to the educational institution, to the business concern, to the fraternal organization. We do not believe that loyalty can be taught by force, or some compulsory form of nagging which continues from childhood to old age. We do not believe it can be successfully built up and maintained by psychological influence and propaganda. Loyalty to one's self-respect is a normal state.



A good type of full Barron S. C. White Leghorn male. Record of dam, 272 eggs; record of sire, 288 Owned by Bayville Farms, Bayville, N. J.

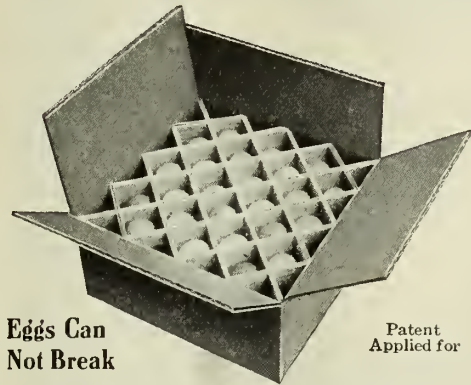
Send 25c for Sample Something New!

THE SEFTON EGGSSELL

You can now ship eggs by express or parcel post with absolute **SAFETY**. Use the Sefton **EGGSSELL**, the new, economical and most practical way to ship eggs. No more breakage! Note the construction. Not one egg touches the outer wall. Protection on every side. **Absolutely Safe!** Made of heavy, corrugated fibre board to stand rough handling and hard knocks. Comes to you knocked down to save space. Nothing like it ever shown before. Prices are quoted below for dozen lots. Order direct from this ad. If you are not satisfied that it is the best egg carrier that you have ever used, we will return your money. Be sure to send for a sample if you do not order a dozen. This offer is for a limited time, so act at once. Send 25 cents with the order blank below for a sample of the six-dozen size—we pay postage on sample.

Use the Order Blank—Order by Number

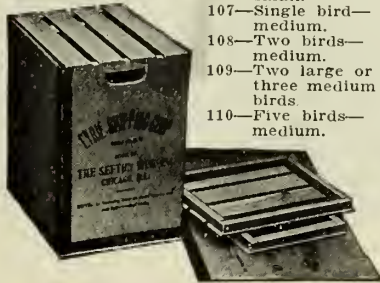
No. 100—1 doz. size—1 doz.....\$1.00	No. 103—4 doz. size—1 doz.....\$2.30
No. 101—2 doz. size—1 doz.....1.40	No. 104—6 doz. size—1 doz.....3.00
No. 102—3 doz. size—1 doz.....1.75	No. 105—8 doz. size—1 doz.....3.50



Eggs Can
Not Break

Patent
Applied for

- 106—Single bird—small.
- 107—Single bird—medium.
- 108—Two birds—medium.
- 109—Two large or three medium birds.
- 110—Five birds—medium.



EYRIE SHIPPING COOP

For Shipping Fancy Fowl

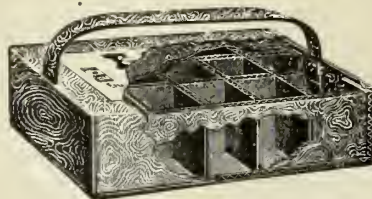
You need the Eyrrie if you ship fancy fowl. Thousands now in use all over the United States. The most practical coop made. Comes to you knocked down in three pieces—top, bottom and body. Top and bottom made of wood, body made of strong, reinforced corrugated fibre board. Open top construction for ventilation. Smooth, solid sides of corrugated body saves plumage and prevents draft or uneven temperature. The economy of the Eyrrie coop is easily seen. You cannot afford to take chances when shipping valuable fowls—buy the Eyrrie. Send your order direct, it will be filled at once. Use the order blank below. Order by number.

- No. 106—Size 12x16x18—1 doz.....\$5.00
- No. 107—Size 12x18x22—1 doz.....5.70
- No. 108—Size 12x22x22—1 doz.....6.10
- No. 109—Size 20x22x22—1 doz.....8.40
- No. 110—Size 20x24x22—1 doz.....9.10

An additional charge of 25 cents per dozen is made where less than one dozen of a size is ordered.

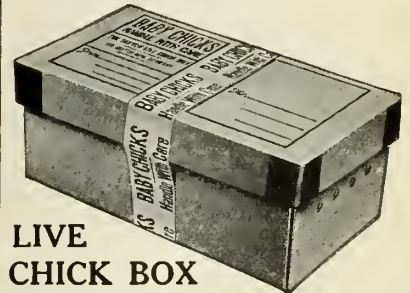
EYRIE EGG BOX

Safely Carries Eggs for Hatching



Great care is necessary in the packing and shipping of hatching eggs. The Eyrrie box is constructed to give the greatest possible protection in transit. Made of the strongest double faced corrugated fibre board and covered with heavy grained jute paper. The egg is protected on four sides. When filled for shipping the Eyrrie will withstand an actual pressure of 1,000 lbs. This is the box you should use. The insertion of the wooden handle automatically seals the box and prevents the substitution of eggs while en route in shipment. This box is for Express Shipment Only. The locking feature prevents its use for parcel post. Order from this advertisement right now. Be sure to order by number. Use the order blank.

- No. 111—One setting—1 doz.....\$1.80
- No. 112—Two settings—1 doz.....2.70



LIVE CHICK BOX

One of the biggest sellers in our entire line. Ship live chicks anywhere and they arrive in good condition. Made of strong, reinforced corrugated fibre board with holes punched on ends for proper ventilation. Smooth inside walls protect the chicks. This is the best and safest way to ship. Order a supply from this advertisement. If you are not satisfied we will refund your money. Order by number. Use the order blank below.

No.	No. of Chicks	Size	Doz.
113	25	13x 7x5.....	\$1.00
114	50	14x13x5.....	2.00
115	100	26x14x5.....	3.00

ORDER BLANK

Sefton Mfg. Corp.,
Dept. 3894, 1301 W. 35th St., Chicago.

Enclosed find \$....., for which please send me the following:

1 Sample Sefton Eggsell.....	\$.25
.....doz. No. 100.....	
.....doz. No. 101.....	
.....doz. No. 102.....	
.....doz. No. 103.....	
.....doz. No. 104.....	
.....doz. No. 105.....	
.....doz. No. 106.....	
.....doz. No. 107.....	
.....doz. No. 108.....	
.....doz. No. 109.....	
.....doz. No. 110.....	
.....doz. No. 111.....	
.....doz. No. 112.....	
.....doz. No. 113.....	
.....doz. No. 114.....	
.....doz. No. 115.....	
Total Amount.....	\$.....

All Shipments F. O. B. Anderson, Ind.
Charges Prepaid by Us on Sample EGG-SELL.

Name

Address

Sefton Manufacturing Corp.

Dept. 3894 - - - 1301 W. 35th St., Chicago, Ill.

usually heavy receipts had knocked 27 cents a dozen off the wholesale price of eggs. Later it developed that this slump did not occur in New York alone, but was experienced very generally, at about the same time, in all big egg markets—and back in the country producing districts.

Shippers' reports and market receipts did not indicate any sudden and unprecedented outpouring of eggs. How did it happen that country buyers had been advised to "keep the buying price down?" Of course that particular trick is a hardy perennial to be expected at this season, but most of us were so interested in protesting the unjust ban on selling hens that we were caught unawares. Considering this slump in egg prices from a nation-wide viewpoint, it looks like an artificial and arbitrary lowering of prices with intent to get cheap eggs with which to fill storage. If there was any over-supply of eggs in any market it must have developed from marketing of eggs diverted from normal use for hatching purposes at this season. If any considerable number of eggs have been turned away from chick production into market channels, the consumer may benefit temporarily, but he will pay high for his eggs later on when the storage men get the crop bottled up, unless a maximum price is fixed, in which case it means bad times for both producers and dealers, while the consumer will go short when the supply runs out. It would have been better for everybody concerned, both now and in the year to come, if egg prices had been kept up to at least 70 cents a dozen at the farm.

We advise everybody who can to preserve new-laid eggs in water-glass solution during April. Put down all the good, clean, new-laid eggs you are likely to need between the coming summer and the spring of 1919. Next winter you will be very glad you have a supply of preserved eggs. Hatch as many eggs from pure bred stock as you can afford and properly grow the chicks. Put down in water-glass as many of the remaining new-laid eggs as you are likely to need. It will pay and it will make you independent of the storage egg market. Further it is better to preserve your own eggs than to sell them below production costs, and a wide-spread campaign of



First prize and champion White Plymouth Rock hen, Chicago Coliseum Show, 1917. Owned by U. R. Fishel, Box A, Hope, Ind.

home preservation of eggs will not only conserve food in your locality, but it will help to prevent further smashing of the prices paid for new-laid eggs. If things continue as they now seem headed, some folks are going to be hungry before many months, but the man who produces food will have the decided advantage of a home supply.

Plant Corn for Poultry.

REPORTS of the condition of the winter wheat are not encouraging. The fixed price on wheat did not have the

expected stimulating effect in increasing production and the acreage in winter wheat was much smaller than hoped for. Cost of farming operations increased much more rapidly than anyone expected. Fully 26 percent of the drafted men were drawn from farms. Farm labor not taken by draft turned to the shorter hours, easier work, and much higher pay, to be had in factories and munitions plants. The fixed-price on wheat proved to be both a maximum and minimum price instead of a minimum price as at first reported. With the lid off, other grains, corn and oats, jumped



WE WIN

AGAIN!!

At Cleveland, Ohio, 1918, "HILLVIEW" S. C. WHITE LEGHORNS won 3 "BLUES" in the hands of one customer. Here is the letter:

"Hurrah for you and Hillview—won 1st cockerel, 1st cock, 1st pullet and 3d hen at Cleveland. We certainly put one over on the bunch here, and thank you from the bottom of our hearts for the splendid specimens you sent us."

YOU CAN DO THE SAME in your city if you get "Hillview" White Leghorns—the pleasure derived out of winning the "blue" over your fellow townsman will be yours. I furnish more winners annually than any other farm for the largest shows in the United States and Canada. I can furnish YOU with blue ribbon winners!

And, My Leghorns Are Real Winter Layers

They prove it by winning **Three Years in Succession** at the Missouri Laying Contest, because they have this year—in the present contest (the fourth year) made the best record for December, and are again **LEADING** all Leghorns in this contest. In the American Contest my pen also made the best December record, and laid double the number of eggs laid by any other Leghorn pen entered. My birds **LAY IN WINTER!**

My beautifully illustrated catalog, just off the press, tells you completely all about my Leghorns. My mating list is ready and will be enclosed with the catalog. Don't hesitate; write today; just send a post card and in return get an introduction to AMERICA'S FINEST WHITE LEGHORNS. See Feb. ad for description of matings.

Eggs—Chix—Eggs—Chix—Eggs—Chix

HILLVIEW FARM Box 27 **LINCOLN, MO.**

C. J. LABAHN, Owner TOM COCHRAN, Manager



to a point out of all proportion to wheat, with apparently the sky the only limit.

In the present state of agricultural unrest, lack of confidence, and woeful lack of encouragement and skilled labor, we will be exceedingly fortunate if we do not have greatly decreased production. Certainly we are not likely to get an increase over 1917. Too many producers went broke or had difficulty in breaking even, to warrant great expectations this season. Authorities are urging each community to endeavor to become as nearly self-supporting in production of foodstuffs as possible. Officials make press statements to the effect that the war may be expected to last fully two or three years. If official predictions are based on same grounds as similar prophecies in Britain three years ago, this prediction simply indicates that no end is in sight, and the present state of affairs may go on indefinitely until either exhaustion or food shortage compels a truce.

How does that affect the poultryman? It means that he must adjust himself to the war conditions. He must make his poultry work adapt itself to local conditions, and not depend too much on supplies from or shipments to distant points. He will have to get the bulk of his supplies nearer home. He will have to sell most of his product within a restricted or comparatively local area, or he will be forced to sell to the big concerns which have practically gained a monopoly of control and distribution of foodstuffs, grains, feeds and supplies. He will have to take what he can get for his produce, and production costs will receive scant consideration. An official prominent in the food administration was reported as telling an audience in a Boston hotel on March 4, that we may expect present conditions of food control to continue for twenty years after the war. If he was correctly reported, the producer can figure out the conditions he is likely to be up against. We are not quite that pessimistic, for we do not believe that present attitude toward production and producers can last longer than one or two seasons more, without those in authority experiencing a change of heart.

Whatever the future holds for us, we have to deal with the present. To be safe we must grow as much grain as we can for our poultry, or contract with someone to grow it for us. Corn and oats are the most dependable grains to grow for poultry feeding. With these we can get along very well. In the short seasons of our Northern States the early varieties of flint corn, either white or yellow, will give most satisfactory returns. Seed corn is none too abundant and we would recommend securing a supply locally, if possible, from some de-

White Orpington

Eggs from PRIZE WINNERS

backed up by constitutional vigor developed by the right kind of raising. These are the birds that have the size, beauty and egg laying ability. \$2.50 per 15 and up.

Breeders

I have a number of good breeders that are grand bargains. Write for my mating list stating your wants.

HARRY DICKEN MANVILLE, ILL.

Smith's White Leghorns

ELEVEN of the winners in the single classes and four of the winning pens at the *Chicago Coliseum Show, December, 1917*, including three firsts and two seconds, were either furnished by me direct or hatched from eggs I furnished customers. This, together with my win of all six firsts, best display and best cockerel in the show (all varieties competing) at *St. Louis, January, 1918*; and my win of four firsts, best display and grand champion male (all varieties competing) at *Greater Chicago Show, January, 1917*, should convince you of the real quality of my strain. My matings for 1918 are even better than last year, and they will produce winners for you! New catalog sent free upon request. Eugene Smith, 317 Galena Blvd., Aurora, Ill.



A 1917 "Lady Beautiful" Pullet.

Myers' Barred Plymouth Rocks

Lady Beautiful Strain

Let me mate you a pen for next Season's breeding. Making the selection from the choicest flock of birds I have ever yet produced.

Single Birds, Pens, Trios or Breeding Pens

Eggs for Hatching. No Baby Chicks. Write for Catalog and Mating List

C. N. MYERS Box A, Hanover, Pa.

Frank Pritchard Says:

"Buy Pritchard's Genetic Anconas

and expect the same results you would expect from any other well made purchase."

12 Baby Chicks.....	\$ 4.20	15 Eggs.....	\$ 3.00
100 Baby Chicks.....	25.00	100 Eggs.....	14.00

FRANK P. PRITCHARD, NATURALIST BREEDER R. No. A2, Fairmount, Ill.

Ship Eggs and Day Old Chicks

15 Size Rippley Perfect Egg Box

Size	Price
15 Eggs—	\$1.75 Per Dozen
30 Eggs—	\$2.75 Per Dozen
50 Eggs—	\$3.50 Per Dozen

in Rippley Improved Boxes. Strong corrugated cardboard, will stand the weight of 5 men. CHICK BOXES—Strongest and Best. Indirect ventilating, no heat or cold, non-crowding. Ship safely any distance. Satisfaction guaranteed or money returned. Order from this advertisement. Sold in 1 doz. packages only. Sample 15 egg, or 25 size chick, 40c postpaid. Full line of poultry supplies at lowest prices. Send now for FREE BOOK.

Rippley's Perfect Indirect Ventilating and Non-crowding Chick Box
100 Size—\$5.00 Per Dozen
50 Size—\$4.00 Per Dozen
25 Size—\$2.50 Per Dozen



RIPPLEY MFG. CO., Box A1, Grafton, Ill., U. S. A.

CARBO STEEL POSTS UNIT SYSTEM



STRONG LIGHT, SPRINGY STEEL

cheapest, most durable, sanitary poultry fences. Bolt together for rigid corner, gate or end posts. Use units singly for line posts or Carbo Drive Posts. First cost of post less than wood. Made any height. Write for Booklet Today.

CARBO STEEL POST CO. CHICAGO HEIGHTS, ILL.

BUFF WYANDOTTES Exclusively

Breeder of high class exhibition and utility stock. FELLOWS' PRIZE WINNING BUFF WYANDOTTES are all farm raised and the best of winter layers. Stock and eggs for sale in season. Prices reasonable. Eggs for hatching, \$3 to \$10 per 15. Utility eggs, \$7 per 100, \$4 per 50. Send for mating list and egg circular. Mention American Poultry Journal. Address

HARRIET J. FELLOWS - Route 2 - ROCKFORD, ILLINOIS

pendable farmer who grows it for seed. If in doubt as to variety to buy, ask your nearest Agricultural Experiment Station about most reliable sort for planting in your section. The same with oats or other seed. Reliable seed houses will, of course, be glad to give information and to sell you seed selected if they have it. But good seed is not plentiful, and, altho we made our purchases early, we found on testing that a good deal of it is far from satisfactory.

Be sure to plant a garden for the family and if you have the room be sure to plant both grain and vegetables with which to feed the poultry.

Automobile a Necessity.

THE automobile or modern auto-truck is now more than ever a necessity for the poultry breeder, egg farmer, or market poultryman. We dislike to hear an auto termed a "pleasure vehicle." That suggests a luxury and, while the automobile will provide pleasure and health-

ful outings for the whole family, it has long since outgrown the "luxury" stage and become a downright necessity for the man who lives in the country, for city man who must do business in the country, and for any worker who must travel some distance to and from work.

With the miserable transportation facilities now afforded by our railroads and trolley lines, with freight tied up and utterly demoralized on even short haul lines, the automobile is an absolute necessity to make it possible to do business and relieve congested traffic.

We are located on a farm only 30 miles by rail from a big city. Before the war the passenger, express, and freight service was far from good, but was tolerable. Now it is almost impossible. We have only three freights from the city each week. Carlot shipments come thru in a few days or a week, but less than carlot shipments may be over a month making the 30 miles. Express shipments are uncertain and always going astray, besides the rough handling

packages receive is most destructive and it is difficult to get any redress or satisfaction.

Our farm is about a mile from post office and railroad station and nearly four miles from village center and stores. Horses cannot cover distance economically and are very expensive luxuries in these days of oats at \$1.25 per bushel and hay shortage, to say nothing of blacksmith bills. It costs less to keep and maintain an automobile than it does to have a driving horse. The auto means quick trips to town or city with produce to be marketed and opportunity to bring home needed supplies on the return trip. It opens up an easily accessible market covering all territory within a fifty mile radius of the farm or home poultry plant. It makes one almost independent of the inefficient rail service of present day suburban lines. Everybody needs an automobile this year. There are useful cars to be had for all purposes and at prices to fit all pocket-books. Better get yours now "while the getting is good."

Our Monthly Prize Contest.

DO NOT forget that AMERICAN POULTRY JOURNAL has a regular monthly prize article contest. Three dollars for the best article received and two dollars for the second best article. Any reader can

S. C. White Leghorns

600 Yearlings and Pullets for sale. \$15.00 per dozen in lots of 25 or more. We are now booking orders for hatching eggs and day old chicks. Place your orders early.

Meadow Lark Farm - - - Box 3, Route 3, Elgin, Illinois

BEAUTY and UTILITY WHITE WYANDOTTES



First Prize Cuck at Madison Square Garden, December, 1916

Regal White Wyandottes have a magnificent show record and this record was made by birds that have the vigor and stamina to reproduce themselves. For twelve years, 1906 to 1917, my birds have won Best Display, also First Cuck and First Cockerel at the New York State Fair in the keenest kind of competition. This success has not been accidental but proves beyond a doubt that my line breeds true and also that it has the vigor to reproduce itself. Canadian winters are severe and it takes strong, rugged birds to thrive and to give results. When you buy eggs from my pens you get them from birds that are bred right, raised right and correctly mated. Can you not reasonably expect better success by starting with an established strain? If you are not satisfied with the results you are getting, why not start all over again with pure Regal blood? A few settings of eggs will not cost you a great deal and will prove a good investment. They can be shipped anywhere in America and I guarantee the hatch. Note the following letters from customers:

Kilmarnock, Va., October 4, 1917.

Dear Sir—I got from my pullet today her two hundredth egg, exactly nine months and three days since she began laying. The pullets from the last setting of eggs are beauties; hope I'll get another such layer. Yours most respectfully, B. B. EDMONDS.

P. S.—The setting of eggs I purchased from you last season gave me twelve fine chicks.

Dear Mr. Martin: Buckingham, Ill., February 6, 1917.

I suppose you would be pleased to know whether the birds purchased of you some time ago for my foundation stock proved satisfactory or not. To say that I am pleased would be putting it mildly. They certainly are heavy layers of nice brown eggs, and are quick to mature, very vigorous, of good size, with fine exhibition quality. The Regals are certainly all anyone could wish. I would like to also add that my dealings with you have been most pleasant. You certainly have always given me full value for my money. Thanking you for past favors, and with best wishes, I beg to remain Respectfully, A. H. SWOPE.

EXHIBITION MATINGS (as they run) \$5.00 per 15; \$15.00 per 50; \$27.00 per 100. **SPECIAL MATINGS**—\$10.00 per 15; \$18.00 per 30; \$25.00 per 45; \$50.00 per 100.

RECORD LAYING PENS (Dorcas Line)

Pens 21 to 32 are headed by males from females with high records, mated to hens with high trapnest records and pullets of the same breeding. From these pens, eggs are \$5 per 15, \$15 per 50, \$27 per 100, \$50 per 200. Utility Matings, \$6.50 per 50, \$12 per 100, \$100 per 1,000.

Special—50 big, vigorous, stay white cockerels, \$5, \$10, \$15, \$20 and \$25 each. Pullets, \$4, \$5, \$8 and \$10 each.

Free—20-page illustrated catalog and mating list. It gives full description of my matings for 1918.

JOHN S. MARTIN, Box 51 Port Dover, Ont., Can.



Baby Chicks
Hatching Eggs

FROM TRAP NESTED BRED-TO-LAY

Barred Plymouth Rocks
S. C. White Leghorns

Acknowledged as the World's Best Layers

REMEMBER! Your year's work depends on the kind of stock you buy. The high prices of feed have made it necessary to feed only birds that will really lay eggs. Therefore, buy eggs and chicks from hens which have proven their laying qualities by the trapnest.

Hatching Eggs.....\$ 8.00 per 100 and up | A fine bunch of large, husky cockerels for sale at \$3.50 and up.
Baby Chicks..... 16.00 per 100 and up | Write for catalogue.

NORMAN'S POULTRY PLANT AMOS G. NORMAN Dept. 10, CHATSWORTH, ILL., U. S. A.

compete. The rules of the contest are easy to observe.

Make your article a story of actual experience with poultry, or something helpful to poultry keepers. Nearly every poultry keeper has some particular home-made equipment, house, coop, brooder, nests, method of breeding or pedigreeing, or method of care and management, which has contributed to his success. Written out in letter form, plainly worded, so that all who read can understand, or, perhaps, illustrated with photos or pencil sketches, real poultry experiences make the best kind of articles.

Write on one side of the paper only. Write plainly with pen and ink or with a typewriter. Try to tell your story briefly and to the point. If you can tell it in 600 to 800 words, well and good; if you need to write 1,000 to 1,500 words do so. All articles become the property of AMERICAN POULTRY JOURNAL, to be used or not, as we see fit. Prizes are awarded monthly. No articles are returned. Address articles for this contest to Dr. Prince T. Woods, AMERICAN POULTRY JOURNAL Monthly Contest Department, Silver Lake, Massachusetts.

A VICIOUS TAX.

(Editorial from *Boston Herald and Journal.*)

WHAT is Congress going to do about the zone system of postal taxes on second-class mail matter? As the war revenue law now stands, that system will go into effect July 1. Its effect may be imagined from the statement that it will increase postage on periodicals from 50 to 900 percent. Perhaps there are too many magazines. No doubt, there are some that serve small purpose, or only an evil purpose. But there ought to be a way to kill them off without including in the slaughter the reputable magazines of the country.

The zone system was forced into the revenue laws by the House, which refused to give hearings or to consider the merits of the case, after the Senate, following full hearings, had rejected the measure. The idea of the zone system is nothing new. On the contrary, the policy of zone rates in postage was followed in the early history of our postal system and was abandoned in favor of a uniform rate for obvious advantages to the country as a whole. When it was proposed a decade ago to establish zone rates for second-class matter a joint commission of Congress condemned it as an artificial barrier in the way of national unification and solidarity. It was thought then, in a time of peace, to be socially and politically unwise. Was there ever greater need of national unification and solidarity than today?

In 1912 another commission, of which Charles E. Hughes and President Lowell were members, likewise condemned the plan as entirely impractical. When Mr. Wilson was Governor of New Jersey he discussed the subject and said the plan would be a mischievous blunder that would attack and embarrass the free processes of opinion. He also opposed vigorously any such tax on the advertising pages of magazines as this law carries. What is his attitude now that the magazine publishers, threatened with the operation of this crippling and even confiscatory law, are trying to win fair play for their business and fair play for those in California, for example, who are read-

SOME OF
**THE GREATEST LIVING
BARRED ROCKS**

were produced by my customers from Aristocratic eggs last season.

This statement means that my customers produced some of the very greatest Barred Rocks in all America—in all the world—from Aristocrat eggs. Hundreds of prize-winners—prize-winners in the biggest, largest shows of the entire continent—were hatched and raised and exhibited—by my customers—from regular Aristocratic eggs purchased last spring. (Note: The same identical hens and cock birds which produced those great winners this past season are again mated up right now.)



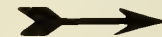
While you are breeding and raising chickens, why not breed, feed and raise THE BEST? Why not? It costs no more to feed and raise the very richest Aristocrats than to raise scrubs. **THINK!**

Send today for big, beautiful new catalogue and special booklet (FREE) and read THE CONVINCING PROOFS, under such headings as these: "Purchases Aristocrat eggs and wins out at the biggest show in America"; "A simply phenomenal record in Texas"; "First and second cockerel in New Jersey from Aristocrat eggs"; "Figure out this phenomenal record in Canada"; "Thirty-six ribbons, three championships"; "A great victory in Pennsylvania"; "Four first prizes at State Show"; etc., etc. If you are in a special hurry order direct from this ad at the following prices: 15 eggs for \$10; 30 for \$17.50; 50 for \$25; 100 for \$50; 500 for \$200.

REMEMBER, I am supplying many of the breeders who are winning out at the world's foremost shows.

W. D. HOLTERMAN, Fancier Box A, FORT WAYNE, IND., U. S. A.

Tolman
Fresh-Air
Strain



**White
Plymouth
Rocks**

Day-Old-Chix
and Eggs for
Hatching

The kind that give
results. Write for
Prices. . . .

Hardy birds, bred for years in Tolman Fresh-Air houses, which have made happy hustlers out of them. Vigor, vitality and vim coupled with quality are their outstanding characteristics.

JOSEPH TOLMAN R. F. D. No. 1 **ROCKLAND, MASS.**

JENSEN'S LEGHORNS
TRAP-NESTED FOR SEVEN YEARS

THEY WIN. At Waukegan, Ill., Nov. 30 to Dec. 4, 1917, I won 1-4 cock; 1-4 pen; 2-3-4 hen; 2-3 pullet.

THEY LAY. In my pens are hens with records as high as 200. Every hen in my five best pens has a record of 200 or more.

EGGS—BABY CHICKS

from this profitable strain with years of breeding for type and production back of them. Safe delivery guaranteed and I aim to give satisfaction to everybody. Write for prices.

CARL J. JENSEN - North Avenue - **WAUKEGAN, ILLINOIS**

LEGGETT'S "SUPERFINE"
Columbian Wyandottes
AND SUCCESS ARE SYNONYMOUS

We guarantee our customers against all failures when they buy Hatching Eggs or Baby Chicks bred from our TRAPNESTED breeders. Eggs \$3 and up; Baby Chicks 35c and up. Eggs after May 15th at one-half price. Catalog. Write us your wants.

H. A. D. LEGGETT & CO., 24 N. Nash Pl., BURLINGTON, VERMONT

WALHALLA



Buff Orpingtons

Buff Minorcas

The Strains of Quality

You Don't Speculate when you buy Stock, Eggs or Baby Chicks of Us

Whether you are starting in the poultry business, or you wish to introduce new blood into your flock, you will be sure to get the best possible quality by buying of us. Under present conditions it is more important than ever before to breed birds that are profitable producers, and of the kind that make good wherever you put them, either in the show room or in the laying house. Isn't it sound judgment in breeding for production to combine Utility with Show Quality? For instance, our **Queen of Walhalla**, the world's greatest Buff Orpington hen alive, she holds the record of being the only Buff Orpington hen ever produced to win **first prize** at America's two greatest shows, Madison Square Garden and Chicago Coliseum, besides winning **2 silver cups** for best shaped and best colored female. This wonderful hen is the best laying hen we have in our flock. She commenced laying as soon as we brought her home from the Chicago Coliseum Show and is still at it. Her daughter, **second prize pullet** at Chicago Coliseum, 1917, commenced laying during that show and is still doing so without interruption. This improvement in heavier egg production of the daughter shows the result of careful breeding. We have many daughters and sons from this wonderful hen in our breeding pens, which will stamp the producing quality in the offspring. Show Quality as well as the egg laying habit is inherited in our strains, and the quality of our strains is proven without doubt by their last year's work in winning

16 Firsts, 14 Seconds, 11 Thirds, 11 Fourths, 6 Fifths and all 5 Silver cups offered, at only 2 shows.

Buy into strains which have been carefully line-bred and developed for many years for show quality as well as heavy egg production. They will transmit their own good points and qualities to their progeny, particularly their breeding and blood lines will make their producing qualities certain as show birds, breeders and heavy layers. We not only have a few good birds from which we supply Quality Hatching Eggs and Baby Chicks, but every pen we have mated is headed by a **prize winner** and the customers are sure of getting exceptional good quality in Hatching Eggs and Baby Chicks by placing their order with us. Our vigorous Northern bred birds are very active breeders. They insure a high percentage of strong fertility in their eggs. Baby Chicks hatched from such eggs are full of "pep," as lively as crickets and stand shipment to any part of the country and will develop into great show birds, breeders and layers. Every one should make an effort to produce all the poultry that he possibly can during 1918 to help the country in producing food. To help everyone to start a nice flock of chickens of the best possible quality, we will sell our Eggs and Baby Chicks after April 15th at reduced prices. When you start, start right.

PRICES ON HATCHING EGGS AFTER APRIL 15

	Special Matings	Exhibition Matings	Quality Matings	Farm Flock
15 Eggs	\$12.00	\$ 7.50	\$ 3.50	
30 Eggs	20.00	14.00	6.00	
50 Eggs		20.00	10.00	\$ 7.00
100 Eggs			18.00	12.50

PRICES ON BABY CHICK ORDERS AFTER APRIL 15 DELIVERED AFTER MAY 1

	Exhibition Matings	Quality Matings	Farm Flock
10 Chicks	\$ 8.00	\$ 5.00	\$ 2.50
25 Chicks	17.50	8.00	5.00
50 Chicks	34.00	15.00	10.00
100 Chicks		30.00	18.00

Safe arrival guaranteed.

Send your order direct from this advertisement to secure prompt shipment. Write for our new Mating List; it's free. We still have a choice lot of grand Breeding Birds for sale—single birds, trios, pens or matings. A pen bought now will pay for itself many times before the season is over. Every bird guaranteed satisfactory or money refunded.

Walhalla Poultry Farm

Carl E. Schmidt, Owner
Edw. F. Schmidt, Poultry Manager

R. 1, Oscoda, Mich.

ers of magazines published in Boston, New York or Philadelphia?

(NOTE—Write your Congressman and Senator today—NOW—and demand the repeal of this unjust law which compels Zone System postage increase on magazines and newspapers.—Ed.)

NEW ENGLAND POULTRY INDUSTRY'S APPEAL.

Asks Government for a Square Deal.
—An Epistle of the Times.

By HOWARD P. GILMORE.

(Note—This "Epistle of the Times," by the manager of the Pittsfield Poultry Farms Co. Hatchery, Holliston, Mass., and owner of one of New England's largest poultry farms, was published in the Boston Sunday Herald, March 10, 1918, and fairly presents the sentiment of the majority of New England poultry-keepers and is supported by similar testimony from poultrymen on the Pacific Coast also. Some of our largest and best egg farms and market poultry plants, including large farms like Pittsfield, which specializes in Standard-bred fowls for both beauty and practical qualities, are to be found in poultry producing communities thruout New England and also in Pacific Coast states. These farms are much more seriously injured by arbitrary interference with the poultry industry than are the poultrymen in the grain producing sections of the country, where poultry keeping is carried on more as a side line than as a specialty. Yet we have many vigorous complaints from poultrymen in the grain farming states. Our big productive specialty poultry farms should be protected and encouraged. Thus far they have only been hampered and injured by unwise interference on the part of the food administration. This is the hatching and growing season; and specialty poultry farms, which are a most important source of food supply, should receive every encouragement from the government instead of being discouraged. In New England, which only produces about 25 percent of the food it consumes in normal times, these poultry farms are of vital importance for supplying food to the hungry public. Can Uncle Sam afford to remain deaf and blind to the appeals and needs of patriotic poultrymen? —Editor A. P. J.)

IN REGARD to the poultry conditions in New England, I believe that a great effort must be made at once to save the industry and that we must all work together to encourage the poultrymen and to ask our government at Washington to change certain regulations that at present tend to discourage the poultrymen and kill the industry here in New England.

I own and run one of the largest poultry farms in New England, and have 3,500 Single Comb White Leghorn hens, which produced about 30,000 dozen eggs last season. I have kept accurate accounts for the past seven years.

I am also part owner and manager of the largest hatchery in the world, the Pittsfield Poultry Farms Company of Holliston, Mass. We hatched 400,000 chicks last season, and have about 35 branch farms with a total of over 20,000 laying hens.

I made a trip thru Maine, New Hampshire and Massachusetts, visiting over 100 of the largest poultry farms, and I believe the poultry situation today is more serious than ever before in our history. About 50 percent of the poultrymen have sold out because they have lost money in the business.

The government has asked the farmers and poultrymen to increase their flocks. We are right back of the government in this and are willing to do our share and more, if the government will show us the way.

Something big must be done at once to encourage what poultrymen are left in the game to keep at it.

Some of the remedies are as follows,



Barred Plymouth Rocks

BUY your exhibition and breeding birds from us. No matter what you pay, no one can furnish you better quality than we can. We are specialists in Barred Rocks, have bred them in large numbers for twenty-five years and can give you selection no small breeder possibly can. Our quality is wonderful, yet our prices are the lowest of any of the big breeders.

Winings Ky. State Fair Sept. 1917

3 firsts; 6 seconds; 4 thirds; 2 fourths; 3 fifths.

If you are interested in fine Barred Plymouth Rocks, write us, and we will send you the handsomest and most complete catalogue published of this breed. You will make a great mistake if you place order before getting our prices and catalogue No. 3.

POPE & POPE, Box A, LOUISVILLE, KENTUCKY

OTTO

1907 : 1918

White ORPINGTONS

WON FOUR FIRSTS AT INDIANAPOLIS—1918

Eggs from the finest matings of our eleven years' experience, containing all our Indianapolis, Indiana State Fair, and Chicago Coliseum winners. Regular matings, \$5.00 per 15; Special, de luxe mating, \$10.00 per 15. Illustrated mating list by return mail.

WILLIAM N. OTTO - - 4815 Central, INDIANAPOLIS, IND.

YOUNG'S STRAIN S. C. W. Leghorns

I HAVE NO OTHER BREEDS

*See that
Bird* 

He is a sample of the kind
that have made my

18th Consecutive Win
at
Madison Sq. Garden

The phenomenal record at the
last show, January 1st, 1918, was

1-2-3 Cocks
1-2-3-4 Cockerels
1-4-5 Hens
2-3 Pullets
1-3 Pens

AND EVERY SPECIAL PRIZE OFFERED



The One Strain That Has Made Good

This is the eighteenth consecutive year that I have won best display and nothing less than 3 firsts and from that to every 1st, 2d, 3d, 4th and 5th. This is a record never accomplished by any other breed or breeder in the world. Young's Strain has outclassed itself in quality this season. My birds have never been so superb or shown such perfect health and form.

Many a setting of eggs from my matings this year will bring prosperity to the purchaser. He will raise birds that will be prize winners and bring him large returns for stock and hatching eggs next year. REMEMBER, the best is always the cheapest in the long run.

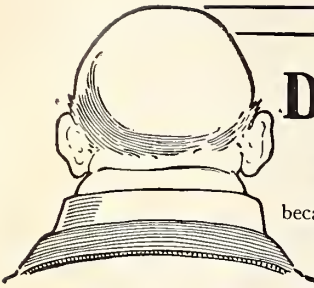
They have won 1st prizes in every state in the Union and in every country in North and South America. This strain is acknowledged thruout the world as being

The Standard for all the Leghorns and the leaders of heavy layers

They have always been bred and selected for heavy laying alone and the show specimens have been chosen from the layers. This is the only original line-bred strain of utility and exhibition Leghorns in America today. Why not come to headquarters and get the best? Hundreds of grand cockerels that will improve your flock for utility and exhibition purposes for sale at reasonable prices.

MATING LIST describing 65 pens and prices of eggs FREE

D. W. YOUNG, Box E-12 MONROE, NEW YORK



Don't Worry Yourself Bald Next Winter

because you did not order your baby chix and hatching eggs early enough this spring. The time is growing short — order today direct

**Brown and Wh. Leghorns
Barred and White Rocks
Reds White Wyandottes
Orpingtons**

from this ad. I have been breeding trapnested pedigreed poultry for 28 years and have been able to establish large flocks of high-record birds, therefore I am able to sell cheaper than others for the same quality.

Eggs and Baby Chicks

Breeders

Trapnested stock, regular \$5.00 values, birds that will give you an opportunity to make good profits selling hatching eggs, with records of

180 to 200 eggs, each	\$3.00
210 to 248 eggs, each	\$4.00
Pedigreed 200-egg cock birds	\$5.00 to \$8.00 and up
180 to 200 egg pullets	\$2.00 to \$3.00
Cockerels, according to records of dams	\$5.00 to \$15.00

Hatching Eggs

We send you the same eggs as we use ourselves. You will readily see that the prices given below are very reasonable:

From hens with records of 180 to 200 eggs

100 eggs; any variety we have	\$10.00
200 eggs; any variety we have	20.00

From hens with records of 200 to 248 eggs

100 eggs; any variety we have	\$12.00
200 eggs; any variety we have	24.00
Eggs from Show Birds and Record Layers combined	\$3.00 per 15

SUNNYSIDE POULTRY FARM, R. C. Blodgett, Prop., Box 1002, BRISTOL, VERMONT



Baby Chicks

same high quality as our other stock, and we have kept our prices same as last season. Bred from birds with records of

180 to 200 eggs, chicks, per 100..	\$25.00
210 to 248 eggs, chicks, per 100..	30.00

**Order from this ad
or send for catalog**

and I urge that a great effort be made along these lines at once:

First—Corn must be rushed to New England at once. We poultrymen have only a few days' supply left and our grain dealers cannot obtain grain for us. There is no corn in this section and altho we have had some ordered for months it has not been shipped on account of embargoes.

We must have grain at once or sell our stock. Lift the embargo on corn.

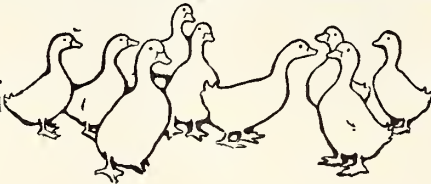
Second — Let the poultrymen have wheat enough to mix in 10 percent in their ration. At present the grain dealers cannot sell wheat to the farmers on account of government regulations. This forces the poultrymen into the hands of the big grain dealers to buy ready mixed feeds and pay exorbitant prices. Most poultrymen mix their own feeds.

If the poultrymen are forced to buy ready mixed feeds, the high price will force them to sell out.

Third—The American Express Company refuses to take our eggs except subject to delay and freezing. This means a total loss to the poultrymen; frozen eggs are worthless and we can-



Second prize Sicilian Buttercup pullet at Madison Square Garden, 1918. Owned by Hiddenhurst Buttercup Yards, Sharon Station, N. Y.



Baby Dux and Chix for Meat and Eggs

Meat and eggs are the crying need of the world. Are you going to do your share? Are you helping raise what you eat yourself? Our baby chix and dux have the necessary vim, vigor, vitality and "livability" to assure you of the greatest degree of success possible, whether you handle them for "green dux," broilers, roasters, or egg production.

They have 32 years of expert breeding along practical lines back of them. As our plant is right across the road from the express office, our chicks do not suffer the usual handicap of being held in boxes for hours waiting for train time.

**One Customer Made \$3 per Head Profit
On Our Stock Last Season**

**R. I. Reds White and Barred Rocks White Wyandottes
Leghorns Anconas Pekin and Indian Runner Ducks**

Remember, our baby dux "grow like weeds," and the above breeds of poultry include what our long experience has proven to be best as money-makers.

Order Now—Circulars Free

W. R. CURTISS CO.

RANSOMVILLE, N. Y.

BUTTERCUPS

101 BIRDS PLACED — 117 EXHIBITED

Is our record during the past season at Madison Square Garden, N. Y., State Fair, Oxford, N. Y., (Club Show), and other places. Largest breeders of Buttercups in New York and New England. 20 pens mated for breeding.

1918 Catalogue Free. Inquiries promptly answered.

HIDDENHURST BUTTERCUP YARDS, Box A2, SHARON STATION, NEW YORK

not collect from the express company. We have had several large losses on this account. We cannot ship eggs to the cities under these conditions, as it would bankrupt us. This same condition applies to all perishable produce.

Fourth—The poultryman cannot make a profit with the present price of grain; corn last sold for \$4.15, oats \$3, and wheat \$4.15 per 100 pounds.

Where is the big corn crop? If we can buy corn at a fair price, we can make a fair profit and will increase our flocks.

Fifth—We must have coal for our incubators and brooders. The day of the setting hen has gone by. The large poultryman cannot depend on the hen to hatch eggs and rear chickens any more than our large factories can depend on wood for fuel or hand labor to hew out the timbers with which our great fleet of ships is being built. We hatch over 400,000 chicks per year. Needless to say, this would be impossible by the hen method. These chicks supply thousands of farmers with their stock, and save them time that can be put to better advantage.

POORMAN'S 200 EGG STRAINS

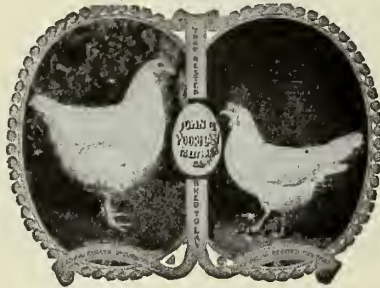
BABY CHICKS

THE
WORLD'S
BEST
LAYERS

TRAP-
NESTED
200 EGG
STRAIN

EGGS

STOCK



LADY ALFARATA BUSY BESS
Record 301 Eggs Record 285 Eggs

White and Barred
Plymouth Rocks
Rose and Single Comb Reds

White and Buff Orpingtons
S. C. White Leghorns
White Wyandottes

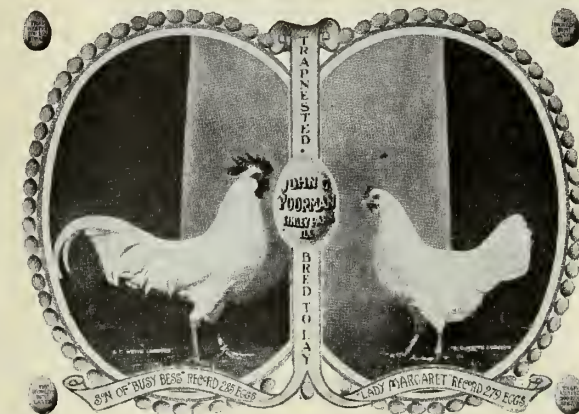
Stock, Eggs and Baby Chicks from my Improved Laying Strains and your careful attention will mean your success. I am offering you Stock, Eggs and Baby Chicks from the same stock that has proven entirely satisfactory to thousands of my customers in this and many foreign countries.

RESULTS

Greenville, Mich.,
March 3, 1918.

J. G. Poorman,
Tinley Park, Ill.

Dear Sir—Please find inclosed Money Order for \$15, for which please send me a Barred Rock cock, Grade A, to mate with my B. Rock pullets. I have sold my old birds which I bought of Wm. Bradley. He bought the cock from you three years ago. One of his sons took sweepstakes at the Greenville Fair over all breeds, and the two pullets he entered got first prize. Now I would like to get a bird to mate with my pullets that is from heavy layers, and also one that will score up pretty well if I should enter him at the show here. There are quite a few Rock fanciers here and, of course, they all think they have the best. Now I'll leave it to you to pick out the bird, as I know your judgment will be right. My eight pullets laid ten dozen and one egg in January, and did better than that last month. Hoping to hear from you soon, I remain,



Special Pair Mating—S. C. White Leghorns

Respectfully,
L. F. M.

My 18 Years

of practical poultry experience has been incorporated into my bred-to-lay strains in such a manner that brings forth unsolicited hundreds of repeat orders from customers of many years standing. My catalog contains descriptions of my plant by representatives of the leading poultry publications, reports from many of my customers, and also my methods of breeding, care, and management. It is fully illustrated, and very instructive, and will prove to you that my prices on eggs at 15c and 30c each, baby chicks at 25c and 50c each, and breeding and laying stock at \$2.50 and up, are very reasonable.

Start right, by writing for my instructive catalog today. It has helped others and will undoubtedly help you.

JOHN G. POORMAN, BOX 100, TINLEY PARK, ILLINOIS, U. S. A.

RESULTS

Toronto, Canada,
March 1, 1918.

Mr. John G. Poorman,
Tinley Park, Ill.

Dear Sir—I had not intended to have you send me on any eggs this year, as I wrote you that help was so scarce I could not increase my plant, but the chicks you have sent me have been making such exceptionally good records in laying, the total pen averaging over 65 percent and none of them less than 50 percent for the months of January and February, I feel it to be better for me to cut out some of the other varieties and have you send me on, say, 50 more eggs, if you could, about the middle of this month. I would want these eggs to be the very best egg producers you have. I have Barred Rocks and White Wyandottes in competition with your Reds and they are from the high class stock, but your Reds have beaten them out in the production of eggs. If there is any better grade than what you have sent me I would be glad to have them and I am inclosing \$5 in the interval. Let me know when you can ship the eggs and how much they will be. I want them at least from your A Grade pens and if you have others that are even higher class I would be glad to have them.

Yours very truly,
R. J. L.

BABY CHIX



Our 19th Year

← This mark has stood for honesty and square dealing in the baby chick business for 19 years. Our old customers look for it every year. They order from us with the knowledge that they will get full value.

Hatched from the Best Utility Stock

bred under ideal conditions, our chicks are strong and healthy—they stand shipment exceptionally well and are full of "pep" when you take them out of the box. We specialize in the following varieties:

- S. C. White Leghorns
- S. C. Brown Leghorns
- Barred Plymouth Rocks
- Partridge Rocks
- Rose Comb Rhode Island Reds
- Broiler Chicks
- S. C. W. Leghorns from all trapnested 200-egg hens

Send for our price list today and get started immediately. Remember, every week earlier you get started this spring means that your pullets will lay that much sooner next fall.

TWENTIETH CENTURY HATCHERY Box 1 NEW WASHINGTON, OHIO

BABY CHICKS!!

From YOUNG'S STRAIN S. C. WHITE LEGHORNS, 200-285 egg layers. The World's greatest laying and exhibition combination. Government tests show Leghorns lay more eggs and eat less feed than other breeds. If you want eggs come on the right side of the fence.



Grade A pens contain my best females, 200-285 egg blood lines, mated to sons of Madison Sq. Garden, New York, 4th cockerel, 4th cock, 1917, and 4th cock, 4th cockerel, Boston, 1915. Baby chicks from these pens \$20 per 100, \$12 per 50. Grade B pens contain same quality as above, only short on show points. Baby chicks from these pens \$15 per 100, \$8.50 per 50. I guarantee safe delivery of chicks anywhere in U. S. east of Rocky Mts. Eggs are one-half the price of chicks. Catalog telling of my methods free. David T. Farrow, Peoria, Illinois.

Hatching Eggs from Kendall's White Orpingtons

Winners at Chicago Coliseum, Dec. 1917
SIX PRIZES ON TEN ENTRIES

in the strongest kind of competition. Vigorous, typy Northern bred birds, acclimated to the coldest winters. A grand lot of birds for sale at prices anyone can afford to pay for good stock. I can please you or no sale. I have the finest flocks I ever raised this season, my pens are mated to Coliseum winners, and are of superior quality throughout.

EGGS, \$5 per 15, \$9 per 30, \$25 per 100

Send for my mating list which describes my birds

KENDALL ORPINGTON FARM H. F. KENDALL, Owner VIRGINIA, MINN.

Speckled Sussex

Pedigreed Cockerels, Pullets and Eggs, bred for their laying qualities from prize-winning males and females at Madison Square, Chicago Coliseum, Palace, New York State Fair, Philadelphia, Keystone Poultry Association, Doylestown, and other shows. Bred first to lay, second as show birds, secured by trap-nested pens, hatched under hens from the best laying females, each egg marked when laid, giving number of hen and pen, duly branded with colored spiralets when hatched, and continued to full-grown birds. Write for prices. T. CADWALLADER - DOYLESTOWN, PA.

Eggs and Baby Chicks FROM 200-EGG STRAIN Golden Wyandottes

7 Special Matings. Headed by 1st Cocks at Madison Sq. and Chicago. 2 Flocks of free range stock. EGGS, \$2 per 15, \$3.50 per 30, \$4.50 per 50, \$8 per 100.

Baby Chicks shipped to reach you safely and will live and grow because they are hatched correctly from vigorous stock. 25 cents each. 50 for \$11.50. 100 for \$20. Have you my circular?

J. S. PENNINGTON Box A PLAINFIELD, ILL.

I suggest that the government give out some actual figures on the cost of production of poultry products with the following: Number of pounds of grain required to feed a hen, cost of grain, cost of labor, cost to raise a pullet, number of eggs laid by average hen, average price net per dozen, and cost of overhead, including taxes, depreciation and insurance on buildings and stock.

My records show that it takes 90 pounds of grain to feed a hen a year at present cost of \$3.50; labor costs 30 cents per hen, and overhead, including taxes, insurance, interest on investment and depreciation on buildings costs 25 cents per hen. Total cost, \$4.05 per hen per year. I cannot average over nine dozen eggs at 45 cents per dozen, or \$4.05. This leaves no profit for the poultryman.

I am sure that with cheap corn and good shipping facilities to our markets, poultry production will be greatly increased and that there will not be this increase until we have these conditions. Unable to get corn, forbidden to feed wheat, poor shipping facilities, and with poultry dealers forbidden to receive or sell our fowl, the poultry industry seems doomed to destruction. The only way possible to stimulate the industry at the present time is to insure a fair profit to the poultryman.

Again I urge that we ask the government to act at once to relieve the extreme conditions in this section and save the poultry industry.

Conflicting Grain Stories.

PERSONAL letters from the grain growing sections of the country received by AMERICAN POULTRY JOURNAL; editorials, special articles, and letters from grain farmers published in leading representative farm papers like the *Orange Judd* publications and *Wallace's Farmer*, and the crop reports of the representatives of the American Steel & Wire Company, all indicate that the government overestimated, and that the 1917 grain crop was not nearly as large as expected, taking the country as a whole.

Apparently authentic reports from real farmers all over the country indicate that the grain crop was a bitter disappointment. The corn crop never recovered from the unfortunate weather conditions and a very large percentage was soft. Much of the corn was not harvested owing to lack of labor. Much corn spoiled in the crib and much spoiled in the field, largely because of the excess of moisture in corn which did not ripen and dry properly. Large quantities of corn were moved to kilns to dry and save it, but drying facilities were

Hatching Eggs

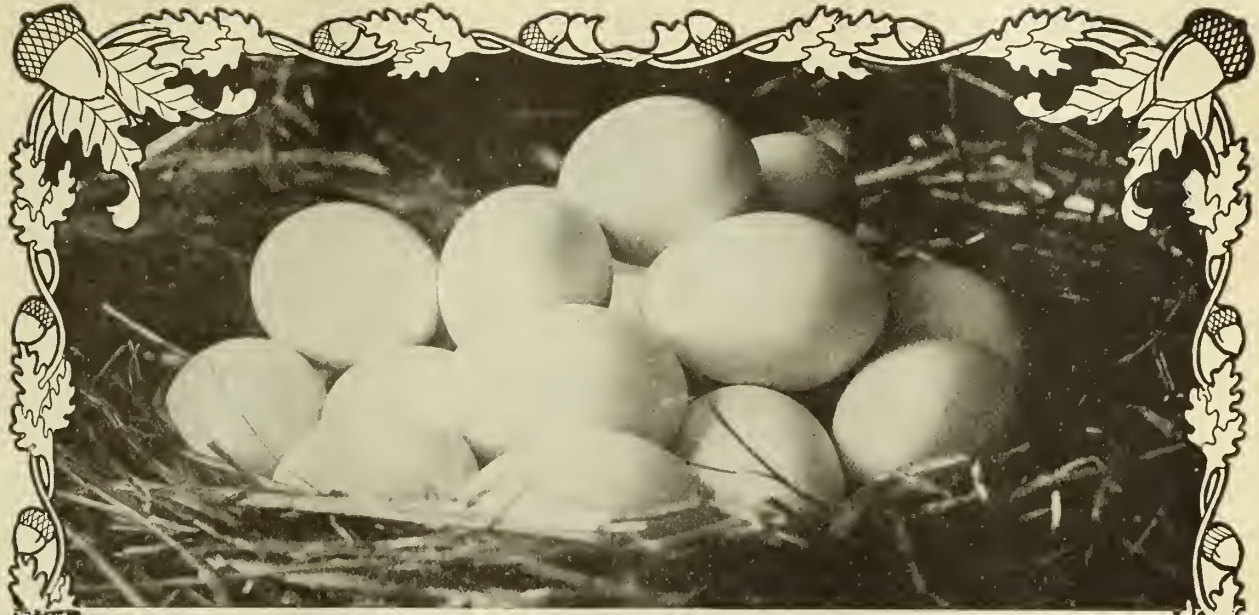
from Bartlett's famous

S. C. W. "Lay"ghorns

the same stock that paid me \$1,200 profit in one year from 400 hens. My stock is trapnested and you are invited to visit my farm and see whether the trapnests are on paper or in the henhouse. Our males are used at Massachusetts Agr. College.

Prices from \$3 to \$10 per 15, according to records of pens. Remember, April and May are the months to hatch eggs. Send for mating list today.

Breeding hens and cockerels for sale
Emory H. Bartlett Box 19 Enfield, Mass.



High grade Hatching EGGS Thousands of big, fertile eggs like above

from our prize-winning, heavy laying strain. The time is growing short. Do not jeopardize your season's success by experimenting with inferior stock. Oak Dale Farms always strive for the best that can be produced. For their fine stock they have the best buildings and equipment that can be secured—conditions are ideal, all of which tends to produce contented flocks of high grade

S. C. W. Leghorns

that will gladden the heart of any poultryman. Get a few settings of eggs from our best stock and make a winning at your show next season, improve the quality of your flock, and put it on a more profitable basis. The following list shows the extensive range of our prices, meeting the requirements of any purse:

15 Eggs	.....	\$ 1.50	\$ 2.00	\$ 2.75	\$ 5.00	\$10.00	\$15.00
30 Eggs	.....	2.50	3.50	5.00	9.00	19.00	29.00
50 Eggs	.....	4.00	5.00	8.00	13.00	30.00	40.00
100 Eggs	.....	7.50	9.50	15.00	25.00		
500 Eggs	.....	35.00	45.00	60.00	110.00		
1000 Eggs	.....	70.00	90.00	125.00	200.00		

STOCK

Following is a price list of our stock. If you do not want to wait to send for our catalog, you are safe in ordering from this ad, as our method of doing business amply protects you. Read about it below.

Cock	.....	\$ 5.00	\$ 6.00	\$10.00	\$10.00	\$15.00	\$ 25.00	\$50.00
Cockerel	.....	5.00	6.00	10.00	10.00	15.00	\$20.00	25.00
Hen	.....	2.00	3.00	5.00	7.50	10.00	15.00	25.00
Pullet	.....	2.00	3.00	5.00	7.50	10.00	15.00	25.00
Trio	.....	8.00	10.00	15.00	20.00	25.00	50.00	75.00
Pen	.....	12.00	15.00	25.00	35.00	50.00	75.00	100.00

Remember, if you do not want a bird bought of us after you have inspected it, if you think you have paid more than you could afford or more than the bird or fowl was worth, or it does not suit your fancy, if you will prepay the express and start it on its return, we will, within 48 hours after you receive it, the purchase price will be promptly refunded.

Send for our handsome catalog today.

OAK DALE FARMS

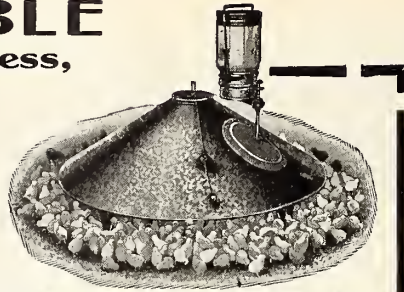
Farms, LeRoy, Minn.
Blooming Prairie, Minn.

Box A

Business Address, Austin, Minn.

The RELIABLE Blue Flame, Wickless, Oil Heated Colony Brooder

Burns Coal Oil. Safety.
Comfortable. Easy to Operate.
Self Regulating. Convenient.
No Wicks to Trim.
No Coal Smoke or Gas.
Economy of Operation.
Steady Blue Flame.
Gives Abundance of Heat.
Positively Has No Fumes.



The Reliable Blue Flame, Wickless, Oil Heated Colony Brooder, is the latest, best and most efficient Brooder ever offered for sale. After a year of experience in testing out and operating this Brooder we are offering to the trade, knowing that such a Brooder is needed by the poultry raisers in general.

We will furnish this Brooder, equipped with our Blue Flame, Wickless, Coal Oil Heater, which has positively no fumes, as it consumes all the smoke, soot and gas and it feeds itself automatically. You can gauge your heat by the flow of oil by our safety valve.

This Colony Brooder is far more efficient than the Coal Burning Brooder. There is no danger of fire going out and chilling the chicks. We guarantee that you get any amount of heat needed at all times, and our regulator will take care of all surplus heat and will do equally as good as a Coal Burning Brooder and more, with less trouble, less risk of fire going out and with equal success of comfort of chickens entrusted to its care and with less cost.

Guaranteed as Represented or Money Refunded

These Brooders are shipped direct from factory and will be furnished with everything complete, and ready for operation. Now is the time to purchase. We are offering special inducements in order to introduce this Brooder. The No. 1, Blue Flame, Wickless, \$12-25 The No. 2, Blue Flame, Wickless, \$14-10 Oil Heated Colony Brooder, 42-inch Hooper

RELIABLE INCUBATOR & BROODER COMPANY Box A-1 QUINCY, ILLINOIS

not adequate to the task. Much of the soft corn has been fed to fatten hogs and cattle. There has been an unprecedented demand for corn and oats for shipment overseas.

At this late day it is hardly wise to "kid" ourselves into the belief that we are going to have cheaper grain soon. We may get cheaper grain thru price regulation, but that seems unlikely. From the evidence thus far presented by men in the field who should know, we will be lucky if we can keep supplied with grain at present prices until the 1918 crop is available.

The food administration, however, talks "famine" one day thru one official and "plenty" another day thru another official, and apparently is still basing some of its views upon the original optimistic forecast statistics.

G. A. Chapman, of the food administration, has made the following statement in reply to inquiries of Eastern dealers:

"This country raised last year the largest crops of coarse grains on record, and very moderate prices undoubtedly would have prevailed had it not been for the unprecedented railroad situation. The crippling of our railroads because of the extremely severe winter weather and the overcrowding of them owing to war conditions, has made it impossible for these very large crops to be marketed with anywhere near their normal movement. It is hoped, now that milder weather is here, and railroads are showing much improvement, that these coarse grains can be marketed sufficiently fast to have some marked effect on the prices of these grains.

"In regard to bran and middlings, on December 25, prices for wheat mill feeds were fixed at the mill. Resales within the trade have been stopped, and the profits which the jobbing trade may take on such commodities have also been fixed. State Food Administrators are now authorized to fix the price which retail dealers may take on wheat mill feeds, and such profits will be fixed in the very near future. As soon as the higher priced bran, which is in the hands of dealers or under contract to be shipped from the mills, is cleaned up the low fixed price on wheat feeds should reach the consumer. The flour mills, owing to their inability to secure wheat are now operating at a very small capacity and there is a shortage of bran and middlings, and this small grind is also prolonging the contracts at the higher prices which prevailed prior to fixing of mill price on December 25."

The above is sufficiently interesting to be worthy of a second reading. The poultryman and farmer is expected to forego profits and increase production "as a patriotic duty," but the big flour mills must have their contracts at high prices and their profits protected on mill wheat feeds, even if the cattle and poultry starve.

While railroad transportation conditions are undeniably bad, "passing the buck" to the railroads does not seem to satisfactorily settle the matter. The prompt statement of the Director General of Railroads, "Show me the food and I'll move it," in response to Mr. Hoover's predicted 90-day famine for the East on account of railroad troubles, is now a matter of history. The East has not yet had to go on rations, and, while rail shipments are slow and most exasperating, no one seems to have pointed out any vast stores of food or grain waiting shipment East.

We hope that there are great stores of coarse grains, and an abundance of mill feeds, soon to be made available for poultrymen and dairy and stock farms. We would welcome cheaper grain. But we really do not see where it is to come from, and, if it is in sight would like to know where. We hope that the food officials are not "kidding" themselves and us because of bureau-made crop statistics.



Baby Chicks

From pure bred, healthy, vigorous, heavy-laying strains. All our birds are raised on free range. Eleven years' experience in hatching and shipping chicks. CATALOG FREE.

The New Washington Hatchery
Dept. C, New Washington, Ohio



White's White Rocks

At the Illinois State Show, Peoria, 1918, I won 1 cock, 2-3 hen, 2-3-5 cockerel, 1-3 pullet, 1 old pen, 1 young pen, grand champion male all varieties, champion female White Rock class, all shape and color specials, and best display. I have won at Chicago Coliseum, Greater Chicago, Quincy, Springfield, Peoria and numerous other shows.

STOCK, BABY CHIX EGGS FOR HATCHING

at most reasonable prices from the finest matings in the country can now be ordered with our guarantee of complete satisfaction. Our birds have type and color that have proven correct. Our customers are winning with birds of our strain. Write your wants and we will gladly quote you prices. Send for my Calendar and Mating List.

NORTH HILL POULTRY FARM Box A, Washington, Ill.
MRS. LOUISA WHITE, Proprietor

The Best White Plymouth Rock at the Greater Chicago Show, 1918

Silver Penciled Plymouth Rocks

— BUFF, WHITE and BARRED ROCKS —

Winners at Chicago, New York, Boston, St. Louis, Illinois State Fair, 1917.

Silver Penciled Rock Stock for Breeding and Show purposes, in America. \$5.00 and \$3.00 per setting. Any variety. Catalog free.

PETER C. JUNGELS - LEMONT, ILLINOIS

RUF'S WHITE WYANDOTTES

Win again at the Greater Chicago Show, January, 1918. Gold Medal, Special, First and other prizes. STOCK AND EGGS REASONABLE

FRED A. RUF - Crown Point, Ind.

ATTENTION

We are in position to care for your wants in

Hatching Eggs or Breeders

IN

**S. C. Buff Orpingtons, S. C. White Orpingtons
S. C. Black Minorcas and S. C. White Leghorns**

bred from the finest strains in this country.

Charles Hubbard

The Man Who Made

Foxhurst Farm

Lime Rock, Conn., famous is General Manager and has absolute charge of my plant.

All this year's breeding pens were mated up by Mr. Hubbard after a great deal of thought and these pens will without doubt produce chicks that will be eligible in any of the large show rooms this fall and winter.

All hatching eggs or stock are sold on an absolute *Guarantee* basis and if you are interested in any of the above mentioned strains, Mr. Hubbard would be pleased to hear from you.

Send for 1918 Mating List

ROBADEL POULTRY FARM

A. C. Robertson, Owner

COS COB, CONN.



STARKS White Rocks

are "beautiful money-makers." Standard bred, high in *exhibition quality*, they are also unexcelled as real *business birds* for the profitable production of market poultry and eggs. Our finest show specimens are wonderful layers—our record layers are fine exhibition type. They are *winner*s both ways!

This Season we are offering

Big Values in Hatching Eggs

And every customer gets the fair deal, too. *If our eggs fail to hatch satisfactorily, we will replace the entire order at half-price or replace infertile eggs free.*

From our special pens, which include our winners at Madison Square, Hagerstown, Chicago and other leading shows, and also our high-record layers, we furnish eggs at \$10 per 15.

From our next series of pens, which include many winners and breeding birds of demonstrated worth, we furnish eggs at \$5 per 15, \$25 per 100. From our utility flocks, all birds of excellent quality, not a poor White Rock in the lot, we furnish eggs at \$3 per 15, \$15 per 100.

Order Now

for quick shipment. We will positively please you, give you eggs which will hatch big, sturdy chicks of the quality you, in justice to yourself, should secure. The liberal guarantee applies to all orders.

Our beautiful catalog free.
Write today for your copy.

STARKS FARM
Box 100 - STARKS, WIS.

Department of Agriculture statistical estimates are fearfully and wonderfully made and for years have been notorious for inaccuracies, both underestimates and overestimates when compared with actual census count. Only recently we had a most striking example. On September 1 the estimated number of hogs in the United States was 60,218,000. On January 1 the number of hogs was estimated at 71,374,000, in spite of the fact that in last third of year there are normally slaughtered as many hogs as there are fall pigs farrowed. Yet here we have a miracle and have gained 11,156,000 pigs made out of thin air with a few magic strokes of a pen. Not real pigs, camouflage pigs. Let us hope that no one is trying to "kid" themselves or us with camouflage grain. It is far easier to face a known difficult situation than to continually have hope shattered and suffer the discouragement of inflated figures and self-deception.

Meanwhile let us be thankful that things are no worse than they are, and we will be all the more pleased with cheaper grain and feeds, if we get them.

DR. WOODS' NOTES AND COMMENT

WORK.

With hand on the spade and heart in the sky
Dress the ground and till it;
Turn in the little seed, brown and dry,
Turn out the golden millet.
Work, and your house shall be duly fed:
Work, and rest shall be won;
I hold that a man had better be dead
Than alive when his work is done.
—Alice Cary.

* * *

As a matter of food conservation and for the good of the country, we would approve a law providing that those who do not and will not find regular employment in some useful work shall not eat.

* * *

If such a law were put into effect there are a lot of office holding parasites and political spell-binders who would have to get busy or starve. Better blisters on the hands than "chair blisters" or overworked jaw-tackle.

* * *

We would not mind working to supply food at cost to useful people, real workers, if others will forego all their profits also and work for the common good of all, but we certainly do hate to be taxed to feed some useless loafer or ornamental slacker, whether male or female.

* * *

How about the home garden and chickens for this 1918 season? We have garden plans well under way and will be ready to plant when the soil is warm enough. This year we expect to content ourselves with a family flock and a few broods of chicks for early pullets and to supply chicken for the home table. Quite a drop from our customary large flocks, but local conditions do not warrant attempting extensive operations.

* * *

Male birds are scarce now since the ban was put on selling hens, but permitted killing of male birds. There were not many cocks and cockerels held over except for breeding purposes.

Over 15,000 Farms

LARGE AND SMALL
Are Using Our Strain of

Single Comb White Leghorns

Here is what Raymond Geddes of Swan Creek, Michigan, wrote us March 2:

"We are getting better than 65 percent egg yield from your stock. After breeding your strain of Leghorns for several years I could never be content with any other, as I have bred seven of the leading strains, and yours is in a class by itself. They can certainly lay, and lay large nice eggs, too."

This is just one of thousands of testimonials we have received from our customers. This is the kind of stock we urge you to buy.

Buy your Baby Chicks and Hatching Eggs from Headquarters

Grade A—Trapnested hens with records of 150 to 200 eggs, mated to cocks and cockerels bred from hens with records of 200 to 265 eggs. \$23.00 a hundred, \$220.00 a thousand.

Grade B—Cocks and cockerels in this mating the same as in Grade A, but bred to one-year-old pullets, daughters of hens with records of 150 to 265 eggs. \$20.00 a hundred, \$190.00 a thousand.

Grade C—High class farm raised stock, not trapnested. \$17.00 a hundred, \$165.00 a thousand.

Hatching Eggs—\$8.00, \$10.00 and \$12.00 a hundred. 90 percent fertility guaranteed.

Special 200 to 265-Egg Stock—Every hen in this mating has a record of over 200 eggs. Not over 100 chicks or 200 eggs to a customer. Eggs, 25c; Chicks, 50c.

Reduced Prices after May 15

Your success depends on where you buy your chicks and eggs. Don't be "penny wise and pound foolish." You can't make any mistake buying too good chicks. Old established farms that know their business trade with us year after year. Our chicks and eggs have made a standard for themselves not approached by any other farm.

LORD FARMS, INC.

Box 240-M Methuen, Mass.

Many of these have been sacrificed upon Hoover's altar, by poultry keepers who found 23 to 30 cents a pound live weight, for any sort of "roosters," attractive and who felt uncertain as to what drastic measure might come next. As a sample of the strenuous efforts made to secure male birds to be sold as live and dressed poultry, see following ad. clipped from Boston Sunday paper:

WANTED—2000 Roosters, Young or Old
GEESE, DUCKS and pigeons, we pay highest cash prices, we send autos 40 miles out; write or phone. P. T. WELSH & SONS, Harvey st., N. Cambridge; tel. 1484-M.

* * *

Tons of wheat in foreign lands, waiting for ships to transport it, are said to have been ruined by weevils. Gen. Sherman was right!

* * *

If Disraeli were alive today he could easily find a fourth variety to add to his famous classification: "There are three kinds of lies; lies, damn lies, and statistics." "News" from Russia could qualify for fourth place.

* * *

April hatched chicks are good chicks and May hatched chicks of the Mediterranean varieties will give a good account of themselves. Dan Young told us that he prefers May hatched Leghorns and he insists on having them hen hatched.

* * *

We have learned of several cases where parties are contracting for early hatched pullets to be delivered in September at \$2.50 and \$3 each. In normal years these figures would look attractive, but this season the grower will not find himself getting rich off the profits at these prices. We would like to have accurately kept records from various parts of the country this season of the actual cost of rearing chickens, including all expenses and first cost of the chicks.

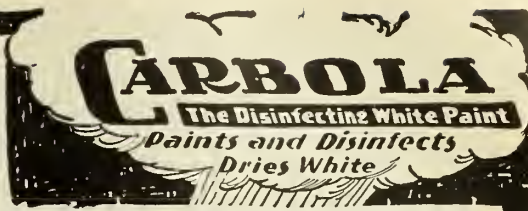
* * *

Our thanks and appreciation are extended to all readers who have so kindly sent us reports of poultry conditions in their section this season and clippings from local papers covering news of interest to poultrymen. Many important and interesting items have been sent us, all of which have been put to good service. If you see anything in your local paper or your farm journal which you think we ought to read, please send it to us and do write often reporting local poultry conditions. While results thus far have been negative, the many letters sent us from all parts of the country about Rule 14, have helped in protesting this unjust edict. Our congressman wrote us that we might look for repeal of the ruling or a substantial modification of it, but we are not over-sanguine about it, for there have been so many meddlers, with axes to grind, running down to Washington frequently that they have muddled the situation, altho they are not really poultrymen. Real poultrymen could well say: "We can meet our enemies without fear, but save us from our friends (?), the sort so active on the side lines."

* * *

Edwin C. Smith, of Limerick, Maine, wants to know if the big packers are trying to put Eastern poultry farmers out of business so that they can sell

The Spring Clean-Up



of poultry houses, dairies, stables, creameries, cellars, factories, garages, out-buildings, etc., can be done with less labor, in less time, and you will get better results if you will use Carbola instead of whitewash and disinfectants. Besides painting a clear snow-white Carbola also kills lice, mites, fly-eggs, etc., and prevents the germs of contagious diseases that affect poultry, livestock and human beings, from getting a foot-hold and spreading in your buildings.

Carbola is used by thousands of poultrymen, dairymen and farmers—by the man with a few chickens in the backyard, by the largest poultry farms in the country, by Experiment Stations, by farmers with just a few cows, and by dairy and stock farms with herds of three or four hundred—and Carbola gives such satisfactory results, is so convenient to use, that even though every day brings new customers, over half our sales go to people who have had Carbola before. It makes no difference how large or how small your plant is, Carbola will make your work easier.

Carbola will increase the light in your buildings,—brighten up dark corners—make them sweet-smelling and sanitary—put them in shape to pass the inspection of milk company or health authorities—improve their appearance. Poultry and live stock never produce their best in dirty, dark and gloomy living quarters. The liberal use of Carbola means more dollars and cents in your pocket.



Carbola is a finely-powdered, snow-white, mineral pigment combined with a germicide many times stronger than pure carbolic acid but not poisonous or caustic. It can be applied to wood, brick, stone or cement, or over whitewash just as soon as it is mixed with water—no waiting, straining or bother. Use a brush or spray pump to put it on. One gallon covers about 250 square feet. Will not blister, flake or peel off. Has no disagreeable odor to taint milk or other food products. Does not spoil by standing so can be kept ready to use when wanted or on a rainy day. Harmless to smallest chick and to stock that lick it. The dry powder is an unexcelled lice powder for use on poultry, horses, cattle or hogs. Give it a trial.

10 lbs. (10 gals.) \$1 and postage 20 lbs. (20gals.) \$2 delivered
 50 lbs. (50 gals.) \$4 delivered

Trial package and interesting booklet for 25c postpaid.

Your hardware, seed, paint or drug dealer has Carbola or can get it. If not, order direct—shipment by parcel post or express the day order is received.

CARBOLA CHEMICAL CO., Inc.

Dept. 7 East 42nd Street New York

Keeler's Vigorous White Wyandottes

= The Aristocrat of the White Wyandotte World =

WINNERS OF 5 FIRSTS, CHICAGO

THE WORLD'S GREATEST STRAIN



First Cockerel, Chicago

Before you buy a single White Wyandotte send for my new, large, 64-page, instructive catalog and mating list giving the full history of my birds. A winning and breeding record of 24 years will convince you that I not only have birds that will win in any show-room but also fill the egg basket, some of my birds laying as high as 273 eggs a year. My prize-winning females are selected from among these layers. Here is the proof:

Box 18, Luseland, Sask., Canada, January 3, 1918.

Chas. V. Keeler, Esq.,
 Winamac, Ind.

Dear Sir—I trust you will mail me a 1918 mating list. Am figuring on placing another order for eggs with you this spring. The birds I got from the eggs last spring are certainly dandies. Have had 15 of your pullets in a Woods' open-front (single wall) house all winter. Got 270 eggs in December from them. Two days of last month 50 degrees below zero, or average temperature for the month 28 degrees below zero. A steady cold month, with three blizzards. I am going to buy your eggs again this year. Wishing you every success during the coming year.

Yours truly, (Signed) E. T. Hughes.

Eggs Eggs Eggs Eggs Eggs

The pens that will produce the 1918-19 winners and layers mated December 15th. I am in a position to furnish you eggs from the sixteen best matings in America. The best birds reared during the past three years are mated in these pens. My 1918 catalog and mating list of America's FINEST WHITE WYANDOTTES ready now. Send for YOUR COPY today. Eggs, \$5.00 per 15; \$9.00 per 30; \$14.00 per 50; \$25.00 per 100. A limited number will be spared from special matings at \$10.00 and \$15.00 per 15. State wants plainly and address.

CHAS. V. KEELER

R. F. D. 11, WINAMAC, IND.

AGAIN WE WIN!

BOOK YOUR ORDER EARLY
English 200-Egg Strain

S. C. W. Leghorns White Wyandottes
 S. C. R. I. Reds Buff Orpingtons

"World's Champion Layers"

Our Certified Contest Records are PROOF

Our Leghorns lead at Leavenworth, 1918, defeating 500 competitors, from every state.

Our champion pullet 1104 lays 28 eggs in 31 days, in the coldest January in 98 years—beating all birds of all breeds.

Our pen No. 110, 5 Leghorn pullets, lays 105 eggs this January; an average of 21 eggs per pullet—putting our pen 30 eggs ahead in the contest to date.

Our entry of five Wyandotte hens in the North American Egg Laying Competition, just ended, won First Prize and Three Silver Cups. These hens laid 1165 eggs, having these high individual records; 294-267-221-220 eggs. Contest under government supervision.

Our Champion Wyandotte hen "Liberty Belle" laid 294 eggs, winning first prize and cup, and establishing World's Highest Official Wyandotte Record. Her sister laid 267 eggs, winning third prize and cup against 500 competitors.

Merely another proof of our success in breeding 200 egg layers. Other competition winnings:

Leghorns—Highest award North American Egg Laying Competition, 100 pens competing, five hens laying 251-250-224-222 and 192 eggs.

Reds—Highest award, in their class, N. A. Contest, five hens laying 1043 eggs, an average of over 200 eggs per hen. Highest Official Red Record known.

White Wyandottes—Missouri International Contest, ten birds laid 2006 eggs, over 200 egg average. One layer made a record of 265 eggs.

**HATCHING EGGS
 FINE COCKERELS
 BABY CHICKS
 BREEDING STOCK**

Write today for copy of "The Story of the 200-Egg Hen," containing pictures of our competition winners, plans of trapnest, feeding formulas and other valuable information that will increase your egg yield. Price 10c, deducted from your first order.

THE PENNA. POULTRY FARM
 Box M, Lancaster, Pa.



their Western-packed eggs and poultry here to better advantage. It certainly looks that way. He reports that poultry keepers in Maine have had great difficulty in getting coal and oil for incubators and brooders, and that grain and feeds are very short supplies and not of good quality. Similar reports have come from all over New England.

* * *

The Rural New-Yorker states: "The meat packers control a large bulk of cold storage eggs. Up to December 15 this season cold storage eggs could not be legally sold in New York state and city except when marked with the words 'cold storage' on the shell. At that time the storage houses were bulging with eggs. This law was enforced and the storage eggs were selling at 42 to 45 cents per dozen. After Mr. Dillon retired from the Department of Foods and Markets, the law was not enforced, and the cold storage eggs were sold all over the city at 65 cents per dozen under the disguise of 'strictly fresh state eggs.' To make the deception all the more complete, the Food Commission cards were displayed with the eggs. The packers sold their cold storage eggs at a liberal profit, but the really fresh eggs that were being produced in the cold weather on grain at \$4 a hundred dropped from 10 to 15 cents a dozen."

* * *

If you want to better understand the strenuous times in which we live and the significance of events, read the "History of Civilization" by Henry Thomas Buckle, with an introduction by Arthur Brisbane, the popular low-priced edition published by Hearst's International Library Co., of New York. It is not "light reading" and must be read carefully in "small doses," but it is intensely interesting and, read understandingly, will help the one who reads it. It is a fine work to read aloud to the family circle.

* * *

This is the month to pack eggs in water-glass solution for next winter's use. Begin now.

* * *

Do not stop hatching altogether because of the unfortunate official interference which seems to threaten the poultry business. To get discouraged and quit now is suicidal. It is bad enough to have all white civilization seemingly bent on suicide, without giving up the fight and quitting in things we can help. Do not lie down and curl up like a caterpillar ready to be smashed. Get together with other poultrymen, organize, co-operate, and put up a good stiff fight for justice and right. We all must eat and we will all need food. What better than good poultry products? Be sure to grow enough chickens for the home supply. Grow good stock while you are about it, pure breeds cost no more to rear than mongrels and yield better results. Be sure to have some good April hatched pullets from heavy laying stock, and grow them well. You will appreciate their eggs next fall.

* * *

Do not sacrifice your carefully bred poultry which has taken years of skillful breeding to produce. Hold on to the best of your breeding stock, grow chicks from your best matings. The hard sledding cannot last always and there are good times coming. It is easy to "come back" if you have a small flock

SQUAB BOOK • FREE

telling how a Mich. hired man now works for himself breeding PR squabs and selling for \$5 doz., how an Ind. man sold 4652 PR squabs for \$1265 and cured himself of desire to leave the farm, how a S. C. man ships PR squabs 125 miles to city hotel by parcel post at \$4.25 doz., how another earned one thousand dollars with PR stock from start with only one pair, how a Texas judge bred 8 pigeons until they amounted to a flock of 164 in one year, how a Vermonter bred 25 pairs to 800 pairs in two years. You can do the same. More money-making experiences. Write today for this big free book. How to get six dollars a dozen, how to start small and grow big. We ship breeders everywhere, safe delivery guaranteed. Read how one of our customers gets \$8 a dozen for squabs in Pittsburg and makes a net profit of ninety dollars a month. Note his selling methods. Reading matter which is alive with selling ideas. Squabs well sold are easily raised. Save in a t; breed, sell, eat squabs; delicious dinners; enjoyable recreation, very little space and money needed to start. For prices and full particulars see our free book, "How to Make Money with Squabs." Write for it today.



delicious dinners; enjoyable recreation, very little space and money needed to start. For prices and full particulars see our free book, "How to Make Money with Squabs." Write for it today.

PLYMOUTH ROCK SQUAB COMPANY,
 321 Howard St., Melrose Highlands, Mass.
 Founder of the Squab Industry in America

Applecock Barred Rocks

EGG—LINE—BRED

Win Sixth Storrs Laying Contest

Total 2119 Eggs

Breeders in our pens with these Storrs Official Records

Champion 277 Eggs

Pen records	- 220 to 243
Pen records	- 200 to 220
Pen records	- 187 to 200

1918 Mating List on Request

APPLECOCK FARM FITZWILLIAM, N. H.

BOURNE LEG BANDS

Are Easy to Use. They are made with large numbers printed on colored celluloid held in an aluminum band.

They are easily read from a distance. Numbers up to 300 are printed on white, red, green, cerise, blue, yellow and pink celluloid. From 301 to 1000 on white only. Band will withstand weather and water. Sizes for all breeds; also for pigeons.

BOURNE MFG. CO.
 231 Howard St. MELROSE, MASS.

SINGLE COMB Rhode Island Reds

that have been winners in some of the leading shows such as State Fair, State Show, Quincy and Decatur. Stock and Eggs in season. Mating list is now ready.

HARRY McPEEK R. F. D. 1 Moweauqua, Ill.
 Formerly McPeck & Sparling

BIDDY'S FRIEND Hatcher and Brooder Coop
TWO-IN-ONE-COOP

The most convenient coop that ever was offered to the poultry raiser for hatching and brooding chicks. Avoid costly mistakes by hatching your chicks the natural way. Write for a circular. Special introductory offer. Agents wanted. This coop is patented in U. S. A. and Canada.

A. J. Van Ackeren, L. B. 107, Cedar Rapids, Neb.

BABY Chicks

100,000 For 1918

Rhode Island Reds, White Wyandottes, White, Brown and Buff Leghorns, Black Minorcas, Anconas, Barred and White Rocks and Broilers. Extra large and heavy layers. Egg record of 248 flock. Lowest prices. Literature free.

HARRY LEPARD

1945 W. 74th St., Cleveland, O.

Inventions Wanted!

Manufacturers constantly writing us for patents. List of inventions actually requested and book "How to Obtain a Patent" sent free. Send rough sketch for free report regarding patentability. Special assistance given our clients in selling patents. Write for details of interest to every inventor.

Chandlee & Chandlee, Patent Attorneys
 Est. 21 Years 409 7th St., Washington, D. C.

\$2.50 for 25 to 50 CHICK HOVER

Made of Galvanized Steel. Can be used in any box. Safe and durable. Hot water heat. All complete. "Incubator book free. We make 73 different articles.

WENDELL INCUBATOR CO., Holly, Mich.

of good breeders. "Carry on" and be prepared to "come back" quickly when conditions are more favorable.

* * *

According to the editor of the *Poultry World*, London, English poultry keepers have their difficulties. The British poultry industry is seriously threatened by grain and feed shortage, proposed rationing, and interference with poultry keeping by the Board of Agriculture. The editor assumes the "Little British Hen" to be on trial for her life and with much wit reports the case, in part, thus:

"Prisoner at the Bar! You are charged with one of the gravest crimes of which any British subject can be guilty at the present time, the crime of eating the Nation's bread. You are charged with being an uneconomic, greedy and generally useless and flighty little creature, deserving only a speedy death. * * * Authorities declare that there are insufficient feeding stuffs in the Kingdom to maintain existing stocks of animals and poultry until this season's crop becomes available in September. * * * What have you to say for yourself before the Court decrees sentence upon you of death that you appear to have well merited at a far earlier date? Little British Hen, reply!"

At these words the Hen answers:

"John Bull and Gentlemen of the Jury, at a moment when the fate of the British Empire hangs in the balance, it may seem impertinent of me to wish to breathe a word in defense of my poor existence. It must seem ridiculous to debate for one moment on such a comparatively trivial thing as the life of a hen in times when all life appears of so little value, and when so many of our most useful and bravest men have gone down like corn before the scythe of war. In normal peace times I am too often an object of ridicule, a peg upon which to hang cheap humor, how shall I in such dreadful days as these hope to be able to claim your kind attention or arrest the dread sentence which you in prejudice and impatience have already prepared against me?"

"I was made by God. I came from the most mysterious thing in the world—an egg, at least I think I did, but the cleverest of your scientists cannot decide whether I came first or the egg. At any rate here we are, the egg and I, at least for the present. How long we are to remain here seems to depend upon you."

"I am charged with eating the people's bread. I plead guilty, but my answer is, I am entitled to do so. I reply that there are other animals which also eat the people's bread, that there are thousands of men and women who eat bread which have far less right to do so, far less solid claim upon corn as a right than I have."

"Of course, I eat bread. When your soldier fights for you in the field do you deny him food? When your munition worker sweats for you in the factory, do you refuse him bread?"

"I am charged with greediness, but am I greedier than other birds and animals, not forgetting the greatest animal of all—Man? And when I admit eating bread, I do not want anyone to misunderstand me, I eat bread, but I give bread back, and much more than I consume. * * *

"I want for my ration but the smallest share of human food, and shall I tell you what I do in return?"

"I provide the Nation with fourteen and a half million pounds sterling worth of food every year. I am necessary to you in peace time, but a thousand times more so in war time."

"Seventy-five percent of the food I consume and can subsist on is waste and surplus food unfit for human consumption, which I thus render profitable."

"Within the London Metropolitan area there are tons and tons every day of dropped food from horses' nose bags, all of which could be utilized for my benefit if systematically collected."

"I bring the means of quick recovery and nourishment to thousands of your hospital."

"I provide a form of food best suited for invalids and growing children."

"I have saved the lives of thousands of your soldiers broken in war."

"On meatless days I provide eggs, the most necessary substitute."

"I am the most neglected of British industries, yet in proportion to the expense involved the most productive."

"I yield in manure value four million pounds sterling per year. And my manure is richer in fertilizing value than any other."

"My value in feathers amounts to one million and a half pounds."

"Kill me and you will have to pay the foreigner fifty million pounds sterling per year or more to replace me. The result of centuries

SCOTT'S S. C. R. I. REDS World's Champions

Eggs for Hatching

from blue ribbon winners at the late National Meet of the Rhode Island Red Club at Minneapolis, Greater Chicago Show, 1917, Chicago Coliseum, 1916, and World's Fair, 1915.

SCOTT'S REDS are being recognized from Coast to Coast as the Best

They excel in color, are big and vigorous and produce few culls. They have good range, shade, proper care, correct mating—all of which produces Reds that win and lay. *They please my patrons.* We guarantee a good hatch regardless of shipping distance.

My mating list, which describes my pens, will be sent on application

C. P. SCOTT

R. F. D. 36, Box A

PEORIA, ILL.



No. 0 Poultry House



Setting Coops



Pigeon House

NOW more than ever you must get the very best results from your poultry. Hodgson Poultry Houses will increase your production. They are designed scientifically—extremely sanitary and perfectly ventilated. Send for a Hodgson Poultry catalog in which you'll find pictures, plans and prices of all kinds of pet stock houses. When you buy, the houses are sent to you in painted, fitted sections which can be put together quickly. E. F. HODGSON CO., Room 332, 116 Washington St., Boston, Mass. — 6 E. 39th St., New York City

HODGSON PORTABLE HOUSES

Gensch's Single Comb WHITE Orpingtons

Sensational Victory at Chicago Coliseum, 1917

1st and 4th old pen, 1st young pen, 1st hen, 1st and 5th pullet, 2nd cockerel, 4th old cock. Best cock, cockerel, hen and pullet.

STOCK

We have a few good exhibition birds for sale.
Also — 18 Cockerels at \$5 to \$25.
30 Pullets at \$3 to \$10.
18 Hens at \$5.

EGGS

We now have our pens mated and can furnish you eggs for hatching from prize winners. Send for my mating list and place your order early.

→ A limited number of Baby Chicks will be sold from all pens ←

F. M. GENSCH

Omro, Wisconsin



Thousands of Baby Chicks die every year from White Diarrhoea. You should protect yourself against this dreaded disease by feeding

"CORNELL"

BRAND BUTTERMILK CHICK STARTER

It should be fed from the time the chicks are hatched until they are three weeks old. Send your dealer's name or write for price list.

BLAMBERG BROTHERS, Inc.

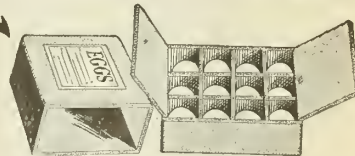
WHOLESALE SEEDS AND FEEDS

107 COMMERCE STREET

BALTIMORE, MD.

Safety

Don't subject yourself to the annoyances arising from the use of improper shipping boxes and other supplies. Get acquainted with our big poultry supply house. We handle the very best and also give prompt service in



Improved Parcel Post Egg Boxes New Egg Cases

New Flats and Fillers Oat Sprouters Leg Bands Poultry Remedies Etc., Etc.

At the Lowest Prices Write for Our Free Catalog

H. K. BRUNNER, Dept. M, 45 Harrison St., New York City, N. Y.

BABY CHICKS!

STANDARD BRED — THE BETTER KIND

Most up-to-date and best hatching device, insuring strong, husky fellows that live and grow. Leading varieties. Prices right. Send for list.

Seneca Poultry Farm

(Established 1905)

Box 4, Tiffin, Ohio

Originator "Sterling Strain" Buff Orpingtons



First prize Light Brahma cock at Cleveland, Ohio, 1918. Owned by Geo. C. Wright & Son, 2335 Riverside Road, Lakewood, Ohio.



White Orpington cock, twice winner of first at Madison Square Garden. Owned by Morris Poultry Farm, Lebanon, Ohio.

of British thought and careful scientific breeding will be thrown away never to return.

"Are they killing hens in Denmark. If any neutral country has suffered thru food shortage, it is Denmark, yet there they recognize the hen's value and provide for it in economical rationing of the Nation. To kill hens in Denmark would mean a sacrifice to them on the egg importations into this country alone of two and a quarter million pounds sterling.

Are they killing hens in America? No! They are encouraging production despite the fact that the Nation has been put on short commons to feed the Allies. And American poultry produce in 1905 was valued at £100,000,000. You think, some of you, that I do not matter because of Danish, Dutch, Canadian and American hens. Kill off all the British birds, there are plenty more hens in the world. If we want fowls let us import them in cold

store. If we want eggs bring consignments from Buenos Aires or the uttermost ends of the earth in pickle. We shall never be short of them, but for heaven's sake let us keep ourselves, our cattle and horses on full corn rations, and that brings to me a few questions I want to ask you:

"Must I die before the racehorse?"

"Must I die before the fancy pigeon?"

"Must I die before the brewer? Is it more



Eggs that Hatch! Chicks that Live!

Two very important points that should interest you at this time. When you buy eggs or chicks from

U. R. FISHEL'S Wh. Plymouth Rocks

you secure the best possible in poultry as well as vitality and blood lines unequalled. Our winnings at Six World's Fair Expositions and Twelve State Fair Expositions, also at Chicago, St. Louis, Hagerstown, Md., Syracuse, N. Y., etc. is proof positive of the superiority of **Fishel's White Plymouth Rocks**.

Special quality now in Back Yard Flocks

CATALOGUE FREE

Eggs, \$15 per 100; \$8 per 50; \$3 per 15. Baby Chicks, \$35 per 100.

Write me your wants please.

U. R. FISHEL

Box A, HOPE, INDIANA

essential to have beer than a fresh egg?
 "Must I die before pet cats and dogs?
 "Must I die rather than that the German prisoners should have their rations reduced?
 "Must I die before Prothero or his Advisory Committee?
 "These are questions that I beg of you to carefully weigh in the balance before answering."

"I have a friend called Carl. The Government have just given him the Order of the British Empire. What for? Because I have laid and given to the wounded British soldiers in France and at home—GIVEN mind you, not sold, over 36 millions of my eggs through the National Egg Collection for the Wounded. This blessed Order should have been conferred upon me; for upon such indefatigable little workers as I, the British Empire has been constructed. But now, Farmer Prothero stands by with a knife in his hand ready to cut my throat because I pinch a few odd grains from his stack.

"Whether I live or die is of little consequence to me, but it may have the gravest consequences to you and to those poor fellows who have been wounded in your interests. "Remember I multiply and increase myself very rapidly. In twelve months from maturity I can have 150 descendants, in 2½ years I can have 11,250 descendants, and with submarine warfare so active, food production must be a matter of immediate consideration. I only cost an egg a week to keep, but in six months I lay on the smallest average 75 eggs, and I have been known to lay up to 140 in the same time. Surely instead of importing eggs and sending money out of the country to the foreigner for eggs, more than 50 percent of which are unfit for food, by the time they reach our tables, it would be more economic to import in the same tonnage a low grade of corn wherewith to feed me? Remember I can give you under proper organization and intelligent scientific direction increased food value of some £40 million sterling a year. Surely in the present critical state of affairs you ought to organize a supply of waste food in every municipal center for my benefit in the same manner as is done at Liverpool? You ought to ascertain exactly how many there are of me and just where I am badly looked after, you ought also to give me cheap railway facilities and generally learn to get the best out of me. I am only like you humans, neglect me and I neglect you. Study me and I am most practical in my gratitude.

"But such is life. Here I must stand arguing and pleading as if I were the veriest criminal, some horrible little pest deserving of annihilation instead of being the real benefactor to my country that I am.

"Well! if I must go under, I can at least console myself by the reflection that I am not the only victim of official stupidity, prejudice and shortsightedness. I shall die in good company, and I shall rise again and flourish. But let me tell you this, I do not intend to die without making a jolly good fight for it. And I call upon my good friends the poultrykeepers of this country to stand by me and not desert me in my hour of need."

* * *

We believe that the eloquent "Little British Hen" has pleaded her case so well that "John Bull and the Jury" will not only quash the charges against her, but will award Madam Hen special honorable mention with the right to use such "bread" as she may need. Certainly this will be done if Britons live up to their traditions.

The Service that Satisfies

A report from Maine.

"O. C. Frantz:—

The 50 eggs I bought May 14, hatched 46 chicks, raised 21 pullets; Oct. 11th they began to lay. From Nov. 1st to present date (Jan. 6th) I have gathered 10 to 17 eggs per day." *Our Leghorns Lay in Winter. Our Eggs Hatch regardless of distance shipped. See Adv.*

Osee C. Frantz

Rocky Ford Colorado

Ironclad

TRADE MARK

Wins in the Two BIGGEST HATCHING Contests Ever Held

Why take chances with untried machines when for only \$11 we guarantee to deliver safely, all freight charges paid (East of Rockies), BOTH of these big prize winning machines fully equipped, set up ready for use? Why not own an IRONCLAD—the incubator that has for two years in succession won the greatest hatching contest ever held? In the last contest conducted by Missouri Valley Farmer and Nebraska Farm Journal, 2,000 Machines were entered including practically every make, style and price. With the Ironclad—the same machine we offer with Brooder freight, paid for only \$11, Mrs. C. F. Merrick, Lockney, Texas, hatched 148 chicks from 148 eggs in the last contest.



150 EGG ironclads are not covered with cheap, thin metal and painted like some do, to cover up poor quality of material. Ironclads are shipped in the natural color—you can see exactly what you are getting. Don't class this galvanized iron covered, dependable hatcher with cheaply constructed machines—and don't buy any incubator until you know what it is made of. Note these Ironclad specifications: Genuine California Redwood, triple walls, asbestos lining, galvanized iron covering, galvanized iron legs, large egg tray, extra deep chick nursery—hot water top heat, copper tanks and boilers, self regulator, Tyco's Thermometer, glass in door, set up complete ready for use and many other special advantages fully explained in Free Catalog. Write TODAY or order direct from this advertisement.

Both for \$11 Freight Paid East of Rockies

30 Days Free Trial
Money Back if not Satisfied

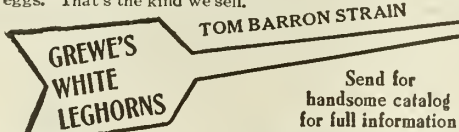
150 Chick Brooder

MADE OF CALIFORNIA REDWOOD

IRONCLAD INCUBATOR COMPANY, Box 43, Racine, Wis.

White Leghorn Chicks

Grewe's White Leghorns hit the bullseye of Results—the dollar mark. Average egg production last year 75%—How's that? Pullets laid at 4½ months. The only kind worth having are those that lay a profitable number of eggs. That's the kind we sell.

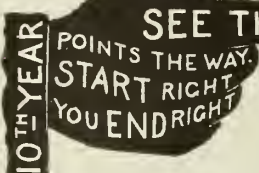


Send for handsome catalog for full information

Chicks from Pen 1, cocks from 252 egg hens, pullets high record stock, each.....25c
 Chicks from Pen 2, two year old hen, averaged 75% last year, each.....22c
 Chicks from Pen 3, pullets and cockerels, high record blood, each.....20c

WHITE FEATHER EGG FARM A. H. Grewe, Prop. DES PLAINES, ILL.

TEN YEARS AGO



and every day since we have challenged any person to hatch one egg the Magic Egg Tester registers unhatchable before incubation. 2d. We challenge anyone to produce evidence of one 200 egg layer that was not hatched from an egg rated good by the Magic Egg Tester. Unimpeachable testimonials. You save and make money when the Magic Egg Tester picks out the eggs for hatching. Best regulator of correct moisture, No candle nor light. Absolutely scientific, showing register of every egg in plain figures. Circular on request. Price \$2.00 and no expense to use. Latest methods of incubation with every tester. One year's trial. Money back if not satisfied. Orders filled by Insured Parcel Post the same day of receipt.

Magic Egg Tester Works, Dept. B Buffalo, N. Y., also Bridgeburg, Canada



2 for 35c

Here is the Feeder and the Fountain

for which every poultryman has been looking. It combines all the good qualities of the ordinary Mason jar fountain and feeder with the good qualities of the best baby chick feeders on the market. The bottom of the feed pan slopes from the center to the edges, thereby insuring a free flow of feed from the jar to the edge of the pan, where the chicks can reach it thru the openings. The small openings prevent dirt from getting into the pan—prevent the chicks from getting into the feed or water and prevent them from crowding too close around the feeder, thereby giving the weaker chicks an equal chance with the stronger ones. This overcomes every objection to the ordinary open pan Mason jar feeder and fountain. It fits any Mason jar.



3 for 50c

The top of the pan can be removed in a second to clean or fill. It is the most inexpensive, most practical and most sanitary feeding and watering device on the market and is fully covered by U. S. letters of patent. If ordered from this ad we will send them postpaid to any address in the United States. **SIMPLEX SUPPLY HOUSE 1300 Pontiac Bldg. CHICAGO, ILLINOIS** Send for our complete Catalog of Poultry Supplies and find out about our marvelous Feather Brooders; also Automatic Grain Feeders and Non-Freezing Water Fountains.

Send for a Copy of New Am. Poultry Journal Cut Catalog.

WORLD'S BEST BY ACTUAL TEST



In the Official Skimming Tests made by Jury of Dairy Experts at the World's Fair Exposition, the **"IOWA"** CREAM SEPARATOR, outskimmed all competing separators. These Official tests and other skimming tests made by leading Agricultural Colleges, prove that the "IOWA" Cream Separator skims closest. The "IOWA" is the only separator with the famous, patented **CURVED DISC BOWL** the World's closest skimming device. Send for free book "FACTS"—tells results of skimming tests and shows how the "IOWA" increases cream checks by stopping your butterfat losses. Before you buy, see and try the "IOWA." Write today.

PATENTED CURVED DISC

A Size for Every Farm

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Poultry Cuts



for illustrating your advertising and printing. All sizes. Send for catalog and prices. AMERICAN POULTRY JOURNAL, 542 S. Dearborn St., Chicago



Questions and Answers
Conducted by Prince T. Woods, M. D.



Questions about poultry are answered in this department free for all readers of American Poultry Journal. Where answers are desired by mail, a stamp for reply is requested. Address all query letters to the managing editor, Dr. Prince T. Woods, Lock Box 4, Silver Lake, Mass.

Poultry Edict No. 14.

Q. (1) How are poultrymen going to sell breeding stock this spring, when the government has forbidden the sale of live poultry?

A. (1) Rule 14 prohibits the sale of hens or pullets, either alive or dressed, for food purposes. There is nothing in the rule to prevent the sale of hens or pullets for breeding and laying purposes.

Q. (2) Is it any worse to kill hens against the law than to let the hens starve?

A. (2) Instructions to federal food administrators state that the rule "is designed to prevent the slaughter of hens and pullets" between Feb. 11 and April 30. The further statement is made that: "The Poultry and Egg Division has found difficulty in formulating a general rule to cover every condition, but this rule should be interpreted with due regard to its purpose. This is to prevent the sale immediately by farmers and poultry owners of hens and pullets. Country packers, however, must be allowed a reasonable length of time in which to dispose of live hens or pullets, or freshly killed

hens or pullets, which they have already purchased; and distributors must also have time, extending to February 23rd, in which to move stock to consumer."

From the above it will be seen that the design of the rule was to prevent farmers and poultry owners from selling. Country packers and distributors were protected and given time to dispose of stocks contracted for. After that cold storage poultry, having no competition from any appreciable offerings of fresh-killed fowls, was unloaded on consumers to the satisfaction of those most interested in enforcing the poultry edict.

At present writing (March 12), this Rule 14 applies only to dealers licensed under the Food Act. There is no authority and no law which forbids any poultryman killing his own fowl for his own use, nor does it prevent him from selling such dressed fowl to his neighbors. The penalties mentioned in case of violation of Rule 14, under the Food Act, apply only to licensed dealers. Under the constitution, we doubt if there is any way in which the government could legally prevent a farmer or poultryman from using or selling food-

You Can't Go Wrong If You Buy A Newtown Colony Brooder

- Coal-Burning
- Self-Feeding
- Self-Regulating
- Efficient
- Economical
- Durable
- Safe



The first successful coal-burning colony brooder. Imitated but never equalled.

The modern coal-burning colony brooder is the most satisfactory brooding equipment ever produced. And the Newtown is acknowledged to be *the most efficient brooder of this type*. In all parts of the world, under all conditions, the Newtown **"raises the most chicks, the best chicks, with least labor and at lowest cost."** Ask any Newtown owner!

The Newtown was the first successful coal-burning colony brooder on the market. The first Newtown was a wonderful brooder, but through years of experience we have improved it in various details until today it is scientifically and mechanically perfect—*the one perfect brooder*.

Made in five sizes, for any number of chicks to 1000. Carefully constructed of superior materials; built to last for years. Burns coal, either hard or soft. (Gas burner can be furnished.) Fuel self-feeding. Self-regulating. Freely ventilated. Safe. Easy to install. Requires no special building. Simple in operation. Efficient to the highest degree. **GUARANTEED.**

Not the cheapest brooder in price or construction. But priced moderately and greatest value for the money. Tell us about how many chicks you plan to grow this year and we will mail brooder catalog free.

The **Newtown Giant Incubator**, like the Newtown Colony Brooder, is the choice of the most successful poultry raisers. Built in many sizes, 600 to 24,000 egg capacity. Let us know which size interests you and we will promptly forward full information regarding it.

NEWTOWN GIANT INCUBATOR CORP'N

21 Warsaw St., Harrisonburg, Virginia

stuffs or animals which he has produced. It can restrain him by refusing to permit his produce to pass inspection, where inspection is required. It can take away his market for produce in quantity, as has been done in case of Rule 14, which, by making it unlawful for licensed dealers to deal in hens and pullets as live or fresh-killed food poultry, prevents the marketing of any considerable numbers of such fowls thru the usual market channels. The farmer and poultryman is urged "as a patriotic duty" not to kill or sell for food purposes any hens or pullets. Obviously it cannot be considered as either "patriotic" or a "duty" to feed high cost grain in time of shortage to unproductive or overfat hens and pullets which are past their usefulness as layers. It is a matter of common sense to market such fowls if you can find a market. There is no patriotism and no good purpose served in letting hens starve. If starving hens were found on any man's premises the S. P. C. A. would quickly have him in court for cruelty to animals.

Q. (3) In this part of the country there is practically no grain at all for sale. One dealer told me he had a car of grain go through Portland about three or four weeks ago and he has not yet received it at Lincoln. What are the poultry raisers going to do?

Lincoln, Me. R. H. Y.

A. (3) The only thing to do is to protest against unjust interference with normal manner of conducting your business. Put up a strong protest to the authorities and state facts, give a plain statement of local conditions, and the number of fowl you have to market, and which should be marketed. Your protest will do some good, even if you do get a reply which is a meaningless confusion of words, winding up with advice to adjust your business to the new conditions.

Milk in Mash.

Q. (1) When mash is moistened with milk, but milk is not always sour, how should you feed it?

A. (1) Alternating sour and sweet milk is likely to cause diarrhoea in chicks or young stock. You can let milk sour before mixing with mash. Or, you can heat the sour milk to separate curd from whey; squeeze the curd until dry and feed this plain; use the whey for mixing mash.

Q. (2) Should one mix milk with mash when it is sweet and then let the mash stand until milk is sour before feeding it?

A. (2) No. Soured mash is dangerous for adult fowls and may kill chickens.

Q. (3) What is a good general-purpose duck for laying and for market?

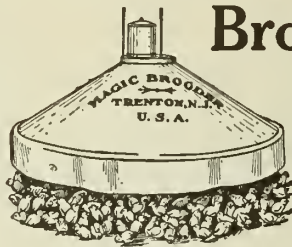
A. (3) The Pekin.

Q. (4) I do not want Indian Runners and I have heard that the Rouen when dressed has a poor appearance, owing to its dark plumage. How are Buff Orpington Ducks?

Ravena, O. H. F. J.

A. (4) The Buffs are very good ducks. Rouen Ducks are an excellent variety and in skilled hands make a good market duck. The Pekin Duck, however, is the popular market duck in this country. The Aylesbury, while a very excellent white duck, is not so generally popular as the Pekin with growers of green ducklings for market.

The Hill Colony and Magic Brooders



famous for high grade construction and efficiency. They hold the fire, automatically regulate the heat and are positively gas proof. They brood chicks which will produce a profit.

The brooder is actually the starting point of success in the poultry business. If our brooders do not do all we claim after thirty days' trial we will cheerfully refund the money and pay freight both ways.

Send for free catalogue describing both the Hill Colony and Magic brooders. It also shows plans how to build colony and laying houses together

with other appliances. Agents Wanted.

United Brooder Co., 348 Pennington Avenue Trenton, N. J.

Harnly's Quality White Orpingtons

Order your eggs and chicks from the only breeder who ever won grand championship White Orpington male and championship White Orpington male honors two years in succession. Buy where the many correctly mated pens of healthy, vigorous, blooded birds are high egg producers. Where the chicks are correctly hatched, are full of vigor and stamina, maturing quickly into egg and meat producers equal to the keenest show room competition.

EGGS (Fertility guaranteed) BABY CHICKS
\$3, \$5 and \$15 for 15 \$6, \$9 and \$25 for 30 | \$8, \$12 and \$40 for 20 \$14, \$20 and \$70 for 40

Mating list, with stock prices and other material, free.

Mary K. Harnly - 2301 Elisha Ave. - Zion City, Ill.

URBAN FARMS PINE RIDGE BUFFALO, N. Y.

Stock and Eggs for sale from our prize-winning Black Langshans, White Rocks, Anconas and Barred Rocks of Ontario Agricultural College laying strain. Eggs only of Tom Barron's White Wyandottes and Leghorns, Pure; also Klondykes, Naked Necks, Silkies, Black Tail White Japanese and Mille-Fleur Bantams. No baby chicks. Mating List now ready.

S. C. White Orpingtons

At Boston, 1918, on 3 entries I won 1st cock, shape and color specials, 1st hen and 4th pullet, also great winnings at State Show, Portland, Freeport Show, Bangor, etc. Grand show and utility stock for sale.

Eggs For Hatching

from pens containing prize winners. The price of these eggs is very little higher than those asked for common stock, but think of the difference in value of the birds raised. Send for mating list.

JOHN R. JOHNSON Box 13 SO. WINDHAM, MAINE

GOLD COIN BUTTERCUPS

CHICAGO COLISEUM WINNERS, 1917 - 1st pullet, 3d, 4th and 5th cockerel. Greater Chicago Show, 1918 - 1st pullet, 1st and 3d cockerel, best shape and color male and female, also champion male and female. I have some fine cockerels for sale. Write your needs. Hatching Eggs. Baby Chicks. I will have eggs and chicks from pens containing these prize winners. Do not delay ordering.

O. B. DISENROTH - LAWRENCE, MICHIGAN

Barred Rocks Pullet Line Exclusively Again they Win

At Dayton, O., Dec. 10-14, 1917, 1st, 2nd and 3rd Hens, 1st Pullet, 2nd and 3rd pullet-bred cocks. At Columbus, O. Jan. 1-5, 1918, 1st and 3rd Hens, 2nd pullet-mated Pen, and Best Display of Females. At Springfield, O., Jan. 7-12, 1918, 1st, 4th and 5th Hens, 3rd Pullet, and 1st pullet-mated Pen.

Eggs from exhibition pullet matings \$4.00 per setting; utility eggs \$1.50 per setting; \$6.00 per hundred. Send for mating list.

LEIGH BICKETT, Rural Route 9, XENIA, OHIO

American Laying Contest Winners! Brookside Wh. Wyandottes

Our pen No. 74 won first prize for highest egg production in the American Laying Contest at Leavenworth, Kan., which closed Oct. 31. They produced 1000 eggs, an average of 200 eggs per hen. Three of the hens scored 94, 93 1/2 and 92 1/2, showing that they combine beauty and utility. Our pen No. 43 in present contest has lead all varieties for first three months. Hatching Eggs. No baby chick. Mating list free. If you want birds that pay, send in your order.

Brookside Farm G. W. SCHOTTMAN, Prop. Montrose, Illinois

WHITE ORPINGTON BREEDERS STOP AND REASON

BOLSON'S UNITED COLOPLATE S. C. W. ORPINGTONS were originated from the best blood in the world - the Famous Aldrich Strain. They win this season at St. Paul, 1 ck., 1 ckl., 1 old pen, 1 young pen, 2 hens, 2-3 pullets. Charles City, Iowa, 10 birds entered, 1-2 cks., 1-2 ckl., 1-2 pullets, 1-2-3 hens, champion hen of entire show, champion pullet of show. Eggs, 6 good matings, \$3 per 15; \$5.75 per 30; \$8 per 50; \$16 per hundred; and I will guarantee that from no other breeder in all America can you obtain eggs from such matings at such a low price.

L. C. BOLSON - R. 7 - Decorah, Iowa

BOY SCOUTS



Like to raise my

ANCONAS

Scouts Tackle Only "Live" Propositions--

the average hen gets nothing but a "What? That?" from him. But thorobred

SHEPPARD'S FAMOUS ANCONAS

as shapely and alert as greyhounds—dappled white on shimmering green-black feathers—"cocky" and alert—systematic and business-like about laying eggs—big, white 'uns, too!—winter, spring, summer and fall—so that the fellows MAKE MONEY from them—they are the birds that MAKE A HIT with the ambitious, wide-awake chap!

Here's a hen that holds the world's egg production record (331 a year) for a single bird—she's an ANCONA!

Here's a flock that holds the world's record of 256 average for a flock—every one is an ANCONA!

Here's the strain that has copied off about all they could for eleven consecutive years at Madison Square Garden—concluding with nine first prizes from a possible ten and a couple Gold Specials this year—they're ANCONAS!

My free book tells all about them. It's an educational, helpful volume.

EGGS FOR HATCHING
BABY CHICKS
TRIOS AND PENS
All Famous Ancona Stock

H. CECIL SHEPPARD
President International Ancona Club
M-2 BERE, OHIO



Read the other "Ad" →

Practical Organization Needed.

Q. Is it possible to get some concerted action to secure repeal of recent rule prohibiting selling of hens and pullets? There seems to be no organization out here to work thru.

Black Diamond, Wash.

O. F.

A. Unfortunately there is at present no effective organization of practical poultrymen, including the large number of poultry keepers who produce eggs and raise market chickens. There is great need of such an organization, particularly at the present time, when big business interests seem bent upon forcing the commercial poultry and egg farms out of business. *American Poultry Journal* and a few, very few, other poultry papers have protested the unjust Rule 14, and the leading agricultural publications have entered vigorous protest. A very considerable number of progressive poultrymen and fanciers have individually protested to representatives in congress and direct to food administration. The daily newspapers in New York, Boston and Baltimore have carried letters from poultry keepers, making vigorous protest against the injustice of the rule. To the credit of the Agricultural Department of Cornell University, and Prof. James Rice in particular, their poultry department issued a statement showing the rule to be unwise and calling attention to some of its far-reaching and harmful effects. So far as we know, the A. P. A. has not done anything about it. That organization seems to be too busy just now trying to get people into the poultry business, to be interested in the welfare of those already engaged in poultry keeping. A considerable number of poultry papers have been lukewarm on this edict, which has worked so much injury to the poultry industry, and some have seemed to approve of it. Their attitude can only be explained by the fact that egg farmers and market poultry growers do not, as a rule, carry much advertising, and the interest of these publications does not extend beyond their immediate cash receipts. While congressmen have stated that we may hope for repeal, or a substantial modification of Rule 14, the time is so short now until the lifting of the ban thru self-limitation (April 30), that about all we can hope for is that we get no more of this sort of unjust discrimination against producers.

In Eastern Massachusetts the ban on sale of hens has not seemed to prove very effective. Italian and Jewish traders, with auto-trucks, have bought up large numbers of fat old hens and sold same alive to their customers through house to house trading. Apparently the law gave no power to control this sort of trade in live fowl. There would be no sense in stopping it anyway, for most of the fowl handled were overfat, unproductive birds which had stopped laying. Naturally, no one could stop the customers from killing and eating their own fowl. It is quite probable that Rule 14, and fear of further more drastic ruling, may have led to heavy selling and unloading of fowls through such channels which would otherwise have been kept for stock purposes. It is a peculiar and common characteristic of human nature, that when you forbid a man to do a certain thing, or attempt to apply force instead of common sense reasoning, he immediately determines to do that thing even though he had not thought of doing so before someone tried to compel him not to. Legislation will not immediately change human na-

YOU WILL

-they don't "lay down"—they just LAY!



You Don't Enjoy a Losing Game

"Slacker" hens take most of the pleasure out of poultry raising and are an expense rather than a paying proposition.

What makes a "slacker" hen? It's not her fault—don't blame her.

You've got to have skillful, patient breeding behind the bird—breeding for systematic seeking of the nest, for the "laying habit"—breeding for sufficient vitality so that the small body may be drained daily, if well fed, without great depreciation.

Look at the hen as an "egg machine"—and thousands would be on the "scrap heap" today.

There is something Efficient

about the Ancona—about her trim appearance—her thorobred bearing—that appeals to the eye—and, much more, appeals to the pocket-book, after her merits have been proven.

Anconas do not "lay down"—they JUST LAY. Not "gold bricks" either, but big white eggs. You can bank on the Ancona as the bird to help solve your food problem. You can afford to EAT EGGS when Anconas lay them. My book tells the story.

EGGS FOR HATCHING
BABY CHICKS
TRIOS AND PENS
All Famous Ancona Stock

H. CECIL SHEPPARD
President International Ancona Club
M-2 BERE, OHIO

Read the other "Ad" ←





First prize Single Comb Ancona cock at Madison Square Garden, New York City. Owned by H. Cecil Sheppard, Berea, Ohio.

turc, even tho some capitalists who buy it seem to think so.

Contamination.

Q. On page 323 of March A. P. J. is a letter by Stella Shrock, Peru, Ind.,

in which she claims that Light Brahma hens, which had been running with Barred Rock males, when mated with a White Rock cockerel, gave progeny which were all Barred Rocks through a six month's breeding season. This is

wholly contrary to my experience. I have repeatedly crossed fowls and then after a reasonable time mated them with males of their own variety and had no trouble from chicks which did not run true to parent stock. What do you think of the case reported?

Cleveland, O.

C. H.

A. We do not believe that there was any contamination from the first cross due to running with Barred Rock males. Almost any market poultryman in our South Shore district could give the true explanation. Here we cross Brahma males on White Rock females to get chickens for roasters. Sometimes a White Plymouth Rock male is used with Light Brahma hens, but not often because of difficulty in securing sufficient Brahma hens which will produce fertile eggs in summer, the time eggs are required for hatching "winter chickens." Both of these crosses yield Barred chickens. The Light Brahma male upon White Rock hens gives many barred or partly barred cockerels; the pullets come solid white, black, barred and mixed; white predominating in most flocks. The White Rock male on Light Brahma female gives a large proportion of barred chickens of both sexes and a smaller number of mixed and solid colored specimens. Crosses sometimes yield surprising results. Almost any cross made on Barred Rock hens yields a considerable percentage of black pullets. A Rhode Island Red on a Buff Wyandotte will yield chickens with plumage like Columbian Wyandottes. Recently we had brought to our attention a case where mating two strains of Reds, both closely bred for exhibition quality, yielded a large proportion of silky-plumaged chickens of good Red color. It is not always safe to predict what sort of progeny a cross will bring forth. We do not take any stock in the theory of contamination. That theory, and the one where the white hen is supposed to produce a black chick because she happened to see a black cock bird on the other side

The Morris White Orpingtons

"The Proven Leaders"

have become the **Real Repeaters** in the show room. In 1917 they won Best Display at Madison Square Garden, New York; Chicago Coliseum, December, 1916; New York State Fair, September, 1916, and they again went "over the top" January 1, 1918, winning at Madison Square Garden:

- | | |
|----------------------|--------------------|
| 1st and 3rd Cockerel | 1st and 4th Pullet |
| 2nd and 5th Cock | 1st and 4th Hen |
| 2nd Breeding Pen | Best Display |

Leaders as Exhibitors — Leaders as Layers A DUAL-PURPOSE STRAIN

In the American Egg Laying Contest now being conducted at Leavenworth, Kansas, for the first three months, November, December and January, 51 pens competing, all varieties being represented, our pen of White Orpington pullets ranks second. Our pullet No. 273 laid 19 eggs in November, 23 in December and 24 in January, despite zero weather.

EGGS FOR HATCHING

BABY CHICKS

We have 12 pens containing the World's Best in White Orpingtons, and headed by winning males, Madison Square Garden, New York, and Chicago Coliseum shows. These grand pens are producing chicks full of life and vitality. We will sell a limited number of Baby Chicks from each of these matings. Place your order early for real value in either Chicks or Eggs. Mating list free.

THE MORRIS POULTRY FARM Harold Rawnsley, Mgr. LEBANON, OHIO



First Cockerel Madison Square Garden, 1918



First Pullet, Madison Square Garden, 1918

FERRIS
WHITE
LEGHORNS



Chicks and Eggs At Reduced Prices

After May 1 we sell eggs and day-old chicks at reduced prices. May hatched chicks will lay in October or November, the June hatched in December, and will make just as good winter layers as earlier hatched chicks.

We can furnish chicks from 200 to 230-egg stock early in May—25 chicks \$7, 50 for \$13, 100 for \$25, 1,000 for \$200. From 230 to 264-egg stock, 25 chicks \$9.50, 50 for \$18, 100 for \$35, 1,000 for \$275. Utility chicks, 25 for \$5, 50 for \$9.50, 100 for \$18, 1,000 for \$160. Safe arrival guaranteed. We can also fill a few more orders during April. See catalog for April prices.

We can fill all egg orders promptly, and we guarantee fertility and safe arrival. 230 to 264-egg stock, 15 eggs, April \$5, May \$3.50; 100 eggs, April \$25, May \$16; 1,000 eggs, April \$200, May \$135. 200 to 230-egg stock, 15 eggs, April \$3.50, May \$2.50; 100 eggs, April \$16, May \$12; 1,000 eggs, April \$135, May \$110. Utility matings, 15 eggs, April \$2.50, May \$2; 100 eggs, April \$12, May \$9; 1,000 eggs, April \$110, May \$80.

Eight-Week-Old Pullets

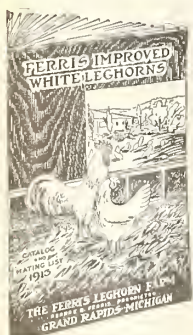
One of the most satisfactory ways to start with Ferris Leghorns is to buy a pen of 8-week-old chicks. At this age the pullets weigh about ¾ lb. and the cockerels about 1 lb. The pullets can easily be distinguished from the cockerels and the trouble and loss that sometimes occur in hatching and raising chicks is avoided, for at this age the birds are ready to go on the roosts, no longer require such close attention and are practically out of danger if given proper feed, a good coop and reasonably good care. We guarantee safe arrival anywhere. We can ship any time you want them after May 20.

From 230 to 264-egg stock, 10 pullets and 1 cockerel \$33, 100 pullets \$225. From 200 to 230-egg stock, 10 pullets and 1 cockerel \$23, 100 pullets \$175. From good stock without records, 10 pullets and 1 cockerel \$18.50, 100 pullets \$125.

Exhibition Stock

We have purchased Frank E. Herings' entire flock of White Leghorns, including all of his Chicago winners. Eggs from these Chicago winners \$10 per setting. We can furnish winners for any show in the United States. Write for special circular describing our exhibition matings and quoting prices on stock.

THIS FREE CATALOG



tells all about Ferris White Leghorns and how we breed them for egg production; describes the eggs, chicks and 8-week-old stock priced above; and the liberal guarantee under which we sell them. Write for it—a post card will do—and let us show you why you should breed Ferris trap-nested laying stock.

GEORGE B. FERRIS

905 Union Ave. Grand Rapids, Mich.

of a high fence, had their birth back in feudal times when it was exceedingly convenient for the gentry to impress such belief on the unsophisticated common people.

Cock Bird Which Has Mated With Mongrels.

Q. I have 9 S. C. R. I. Reds, two years old, and the mother of them mated to their sire, a three-year-old cock, no relation to the mother of the hens. I mated same birds in spring of 1917, but sold all the chicks when day old. I want to raise about a dozen pullets this season to breed from next year and do not want to introduce any new blood. One of my neighbors has a cockerel hatched from my 1917 mating. He will mate this Red to mongrel hens and I can get him next fall. Would he be all right to mate to my 1918 pullets in spring of 1919? He will be a brother to them, but one year older. Does it make any difference about his being mated to mongrels this season?

Galeton, Pa.

E. B.

A. The fact that the Red cockerel has been running with mongrels will not affect his breeding qualities or his progeny. If he is strong, healthy and vigorous in 1919 and the sort of bird suitable to mate with your pullets, would not hesitate to use him. If you only want a few chickens this season, you would do well to mate the old cock bird to his original mate and four or five of the best of the nine hens. You will probably get better results from him when running with not over six females.

Pedigree Breeding.

Q. Please tell me how to start a pedigree strain. I have two pullets and a cockerel grand for looks and pullets fine layers. I have bred them this way: the daughters to the father and the son to the mother. We owned the grandparents, but that is all we know about them.

Brooklyn, N. Y.

G. B. D.

A. Leg band your birds and record their numbers. Provide trap nests and keep a trap-nest record of eggs from each hen. When hen and egg are taken from nest, also record leg band number on the egg. Hatch such eggs separately—all from one hen in same nest or in pedigree tray of an incubator. Toe-mark the chicks—by punch mark in web between toes—and make a record of the marks for identification of each chick and the mating from which it was produced. As chicks grow, supplement the toe marks by use of numbered leg bands. By keeping accurate records, so that you can easily trace the pedigree of each chick back to your original trio or pen, you can successfully build up a pedigree strain in which you will know the parentage and ancestry of each individual, and just what results you have secured and may expect from each mating.

Housing and Comb Freezing.

Q. I have a poultry house, 12x30 ft., shed type, facing south. Three openings 2x5 ft. I have blinds that let down nights when very cold, and part way down on stormy days to keep out storm, also burlap curtains that I let down in front of roosts. Have 60 Leghorns here. Last winter had cotton over windows and combs froze badly and house was damp. House not damp now, but combs freeze some. Can I help it at 30 degrees below zero? Some keep Leghorns here

White Plymouth Rocks

Champion
Cockerel of
Tri-State Fair,
Memphis



Tri-State Fair,
Memphis, 1917,
won 1-2 cock,
1-2-5 hen, 1-3
cockerel, 1-4
pullet, 1-2 old
pen, 1-2 young
pen. Grand
Champion
Cockerel of
show. \$50.00

Sweepstakes
over all varieties. \$25.00 Southern Sweepstakes. Ex-President's Silver Cup best pen. At Arkansas State Fair, Ft. Smith, 1917, 1-3 cock, 1-2 cockerel, 2-3-4 hen, 1-2-3-4 pullet, 1 old pen and 1 young pen. Silver Cup, Champion Pen. Cup, best pen American class. At Greater Chicago Show, 1918, 3rd old pen in a very strong class. Eggs and Stock for Sale. Write us.

COUNTY AVENUE POULTRY FARM
Mrs. Ira Johnston, Prop. Box A Texarkana, Ark.

REGAL STRAIN

White Wyandottes

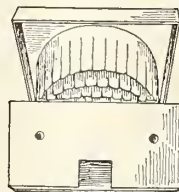
Won at Terre Haute, Dec., 1917
on 9 birds entered, 1 cock, 1 hen, 1-2-3-4-5
cockerel, 1-2 pullet.

Breeders—Utility Stock
Eggs for Hatching

Write me your wants and send for mating list. I have the quality, the prices are right, and I can please anyone.

H. R. STEVENS HYMERA, IND.

BROODER \$1.25



Holds 25 to
75 Chicks

A strictly Sanitary
Fireless Brooder that
is used by poultrymen
everywhere.

OVER 30,000 NOW
IN USE. Will Brood
25 to 75 chicks. Chicks
can not crowd nor
smother. If you have
large or small flocks
you should have this
Brooder.

Sent anywhere for \$1.25. Five for \$5.00
Order direct from this ad.

Ask for our Chick Book how to raise chicks with
success also our prices on baby chicks and stock.
It will pay you to get this valuable book before
ordering your chicks and Brooders. This book is
free. Send today.

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Thoroughbred Games

the finest eating
fowl; the
best fighters.

We have them in Black Reds,
Brown Reds, Pyles, Duck
Wings, Hennies and White
Hackles. Eggs and Stock for
sale. Send stamp for circular.

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Sayville, Suffolk Co., New York

CHAMPION LEG BAND

Aluminum, numbered to suit, with large raised
figures. Postpaid 100-60c, 50-35c, 25-20c, 12-15c.
Initials extra, 10c per letter per 100; 50 or less 5c.
More than one initial with cut figures. Circular
free giving price on Small Chick, Superior, Riveted
and Pigeon Bands. Sample for stamp.

T. CADWALLADER Box 802 Salem, Ohio

62 BREEDS, Pure-bred Chickens,
Ducks, Geese, Turkeys, Hardy northern raised vigorous, beautiful. Fowls, eggs, incubators, at low prices. America's Pioneer Poultry Farm. 24 years exp. Large fine Annual Poultry Book and Catalog FREE. F. A. NEUBERT, Box 675, Mankato, Minn.

without freezing, but crowd them very close, not more than one square foot per bird.

Swanton, Vt. O. H. B.
 A. Comb freezing is not so much a matter of housing as it is of condition. Birds that are a little out of order are very apt to have frostbite. Getting wet with drinking water and exposure to cold wind are fertile causes of frosting. When temperatures of 30 to 40 degrees below zero are common, it is a difficult problem to prevent this trouble. We would not want to encourage crowding the houses, for that invites more serious troubles. We believe that there will be less trouble from frosting in a house that is kept always partly open, so that the air is dry, live and sweet, than in closed house where air is stale and damp. Curtains about the roost may make the birds a bit tender and more liable to frosting in day time. We have seen Leghorns in your state housed in open-front scratch shed houses, with door at rear between roost room and scratch shed—the door never closed—where frosting of combs was of rare occurrence.

Early and Late Molters

Q. (1) I have charge of 1,100 White Leghorns, 500 yearling hens, about half of which completed their molt in October, and 600 late hatched pullets. I expected the hens to be completely over molt by the last of November and that I would get a fair egg yield through the winter, but to date, Feb. 25, they have reached only 43 eggs in one day, which was two days ago.

There is a great deal of talk now-a-days about the late molter being the best hen, but I know of hens which have molted early and done well, laying while eggs were high, and the late molters did not get to laying until spring. My impression is that if a pullet begins laying early in the fall, molts early the next fall, and then lays again through the winter when eggs are high, she would be most profitable. What is your opinion?

A. (1) This has been a very severe winter in this section. As a rule Leghorns are better summer layers than winter layers. We prefer to have birds molt out clean before severe cold weather. The birds which molt early and get to laying in October and early November suit us best. We would much prefer to have a hen which molted early and turned out 100 eggs when eggs averaged 5 cents each or better, than to have a hen we had to feed while loafing all winter and wait for her to shell out 150 eggs when prices average 2½ cents per egg. The winter layer would yield \$5 worth of eggs to pay for her keep, while the spring layer yields only \$3.75 from 50 percent more eggs. Of course, if we were catering to a summer colony trade in eggs, where the summer folks would pay fall and winter prices, we would want summer layers, but in that case the heavy spring layer might be a disappointment. She would be likely to be thru laying when most needed, for the bulk of the summer colony egg trade comes between June 1 and October 1. It takes nice management to get a good egg flow during this summer season and the same may be said of fall and winter egg production.

Q. (2) Pullets came to farm June 20 as day-old chicks. They were grown in close confinement, besides not having a good start. They are quite small and



250,000
"Better Hatched"
BABY CHICKS
For April and May Delivery



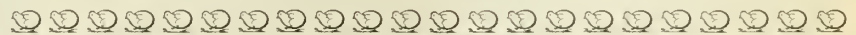
Listen to the appeal of your Government. Be patriotic and raise poultry. No other meat is so quickly produced. Every pound you produce means more available meat for our fighting men. Every chicken you raise is a shot at the Kaiser. A dozen fresh eggs is equal to two pounds of meat.

We Ship Chicks by Parcel Post

This service has been recently granted us by the Post Office Department. Deliveries will be made to your door in the city and to your post office on rural routes. The postage will be much less than express charges and chicks will reach you in better order. We have shipped successfully over a million and a half of chicks. We have a capacity this season of a half million. One hundred and fifty flocks of pure bred stock all on free range. That means health, vigor and vitality. We ship two grades of chicks—"Exhibition" and "Select." The "Exhibition" quality is as good as any sent out by specialty breeders at much higher prices; they are not bred for "fuss and feathers" alone, but for high laying qualities, in addition to Standard requirements. Our old customers state that our "Select" quality is away above the average and continue to order each year in increased numbers. We believe it will be to your advantage to send for our descriptive catalog and prices before ordering. It's free.

Warning! Chicks are scarce—don't wait.

THE CO-OPERATIVE BREEDING & HATCHING CO. Box 14 TIRO, OHIO
 DR. W. H. GUISS, President HERBERT H. KNAPP, Secretary



Riley's Barred Plymouth Rocks



If you breed the Riley Strain you'll win. Have you placed your order for that setting of eggs from which you will hatch your winners for next season's shows? Remember Riley's Rocks are noted for the winning birds that have been hatched by his customers at such representative shows as Madison Square Garden, Boston, Chicago, Philadelphia, etc., and a setting of his eggs have brought many a breeder from obscurity to the very top of the ladder in a single season. When you buy eggs from me you are buying the very best there is in Barred Rocks and you can buy the best that I have. My illustrated catalog and mating list tells you all about my matings. Send for one at once.

Henry D. Riley Box B Strafford, Chester Co., Pa.

HALBACH'S WHITE PLYMOUTH ROCKS, EGGS AND BABY CHIX

CATALOG, 20 CENTS. MATING LIST FREE.
 H. W. HALBACH & SONS - R. 1 - Waterford, Wis.

S. C. W. LEGHORNS—OHIO'S BEST

Our breeding pens contain our winners at The National All Leghorn Show and Ohio State Fair and our price is but \$2 and \$3 per setting. Sold up on W. F. B. Spanish eggs for season.
 J. W. FRIESNER & SON Box C, BREMEN, OHIO

EGGS

Golden and Columbian Wyandottes, S. C. White Leghorns, Ringlet Barred Rocks, \$2 per setting up. Write your wants.
 PAUL GARTRELL R2 Bowerston, Ohio



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Rose and Single Comb

Brown Leghorns

Records, 200 to 266 eggs. Big birds, large eggs.

Rose Comb Whites. 244 egg line. Eggs large as Single Comb Whites.

Single Comb Whites. 288 egg line, large white birds, large eggs.

Barred Rocks. 270 egg line.

S. C. Reds. 243 egg line, fine large birds and large eggs.

White Wyandottes. 245 and Silver cup. Eggs \$2 to \$7 for 15; \$10 per 100. Catalog.

W. W. Kulp, Box 70, Pottstown, Pa.



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35 Varieties 35 of Fancy Poultry

EGGS for hatching at prices you can afford to pay.

Order your eggs early

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SPIRALETS

Mark Your Birds Distinctly Without Numbers
True colors. Correct sizes

Dark Blue Light Blue Yellow
Red Pink Amber Green
Purple Black White

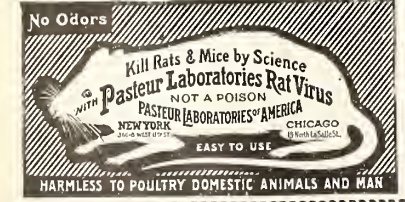


Size for	12	25	50	100	250	500
Baby Chicks...	\$0.10	\$0.20	\$0.30	\$0.50	\$1.10	\$2.00
Growing Chicks...	.10	.20	.35	.55	1.30	2.25
Leghorns, etc...	.15	.25	.45	.70	1.50	2.50
Rocks, Reds, etc...	.15	.30	.50	.75	1.65	2.75
Asiatics, etc...	.15	.30	.50	.80	1.80	3.00

Postpaid, 12 samples and circular 15c. Made by M. BAYERDORFFER HUGUENOT PARK, N. Y.

NO ADVANCE IN PRICE

3 years' supply of California Redwood hought in 1916 makes old low prices possible. Years of unbroken success prove reliability of Progressive Incubators in securing full hatches of strong, healthy chicks. The Progressive is absolutely guaranteed or money back. Just think of a big, reliable, 155 egg incubator and brooder, both for only \$9.85. Write for big, free book and records of old users. Progressive Incubator Co. Box 135, Racine, Wisconsin.



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For spraying Poultry Houses, Coops, Runs, Barns, Stables, Pig Pens, Kennels, etc. Ask your dealer, or write us for literature. CINNAKOL CHEMICAL SALES CO., 51 W. 52nd St., Bayonne, N. J.

about 35 percent of their eggs will average 18 ounces to the dozen. What is the cause of so many small eggs?

A. (2) You cannot expect stunted, late-hatched pullets to lay large eggs. The pullets never had a chance to develop properly.

Q. (3) Would you dispose of the hens in summer as fast as they stop laying, or would you wait until they begin to molt?

Wilbraham, Mass. J. C. Q.

A. (3) Would want to replace all of that stock, except a few of best hens producing large eggs, with April or early May hatched pullets of a good laying strain. Would watch the market, fatten the birds, and market at most favorable opportunity after they stop laying. Forcing them for eggs will fat them. As they have loafed all winter, you may be able to keep them laying well into the summer.

Market for Poultry Manure.

Q. I have been drying the night droppings of a flock of 150 hens for some time. Can you give me address of someone in Ohio who would buy same?

Columbiana, O. Rev. C. D. Fischer.

A. We do not know of a buyer in your locality. At one time we used to dispose of manure to tanneries. Of late years we believe it to be more valuable to us to use on the land, since we moved to this farm. Truck growers, florists and operators of hot houses where vegetables are grown under glass, will usually buy poultry manure at a good price. Any farmer should be glad of opportunity to buy dry well-cared for hen manure in this season of high cost fertilizers.

Breeding Young Stock.

Q. (1) I have a small flock of Anconas which are 8½ months old and a cockerel of same age. All are well-grown and in best of health. Pullets began laying at 6 months old. Would you advise using their eggs for hatching? Would same answer apply to Brown Leghorns?

A. (1) Yes, to both questions.

Q. (2) About what should be average weight of Anconas one year old, male and female?

Youngstown, O. B. H. K.

A. (2) Female, 4 to 4½ pounds. Male, 5 to 5½ pounds.

Scaly Legs.

Q. What is a good remedy for scaly legs?

Dunellen, N. J. C. C. D.

A. Get some compound sulphur ointment (Hebra's itch ointment) of your druggist. Apply this to affected parts every other day until three applications have been made. In three or four days after last application bathe parts with warm soapy water.

Cut Green Bone.

Q. I have 20 S. C. White Leghorns on a town lot 50x150 ft. These pullets are from a heavy-laying strain and yielded me 3,400 eggs last year. Grain bought cost me \$59.09. These 20 pullets were selected from a flock of 75 birds. I am thinking of getting a bone cutter, as beef scraps are hard to get around here. I can get all the fresh beef bones I want right at home for one cent a pound. Please compare the value of beef scrap and cut green bone. What



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will help you do this easily and economically. Start with

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It will make them grow fast and strong. This is only one of the famous

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White Wyandottes

Make a new record at Madison Square Garden, 1918. In the money for 25 years. To help win the war best eggs reduced to \$5.00 per setting. Nowhere on earth can this be duplicated. Special: 100 prime breeding cockerels, \$3.00, \$4.00 and \$5.00, each. Warning: Do not place order before writing me.

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feed, labor, time, worry

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The Lo-Glo Electric Incubators and Hovers are the final expression of the art of incubation. Absolute control of Heat, Moisture and Ventilation insures big hatches and strong chicks. All metal, fire-proof, sanitary, indestructible and odorless. Write for booklet "J."

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CHEAPEST AND BEST

12 for 15c; 25-20c; 50-35c; 100-60c.
Sample Band Mailed for 2c Stamp.
Frank Myers, Mfr. Box 40, Freeport, Ill.

percentage of green bone should be fed with the mash?

T. R. C.

A. Where you do not count your labor as costing you anything, and you can secure good, sweet beef bones at one cent a pound, the green bone is so much cheaper than beef scraps at present prices, there is no comparison. Feed the green cut bone fresh daily, allow about one ounce per hen. If looseness of bowels results, feed less bone. Would prefer to feed it separately at one feeding—it can be mixed with mash, but there is no advantage in doing this, as mash is likely to be wasted by birds scratching for the bone. Do not cut too much at one time, as it will heat and spoil. Cut fresh as needed. Green bone yields about 69 calories to the ounce; beef scrap, 154 calories. Green bones show: Ash, 24.5 percent; protein, 22.3 percent, and fat, 16.5 percent. Beef scrap: Ash, 8 percent; protein, 58 percent; fat, 32.9 percent. Green bone has a nutritive ratio of 1:1.8; beef scrap, 1:1.4. Buy the bone in small quantities as needed to make sure that it is always fresh and sweet.

Artificial Hatching of Goose, Duck and Turkey Eggs.

Q. (1) Please tell me if an ordinary incubator is suitable for hatching goose, duck and turkey eggs.

A. (1) For hen and duck eggs, yes. Goose and turkey eggs may be incubator hatched, but to date few have made a success of it.

Q. (2) Where can I obtain a table showing temperatures, moisture readings, periods of incubation, etc., for the four kinds of eggs?

A. (2) Manufacturer of machine should be able to supply you. Apply also to "Poultry Investigations," U. S. Dept. of Agriculture, Washington, D. C.; also Poultry Husbandry Dept., Cornell Univ., Ithaca, N. Y.

Q. (3) Can you recommend an inexpensive book on incubation, brooding and rearing?

Cottonwood, Mont. E. C.

A. (3) Apply to American Poultry Journal Book Dept., 542 South Dearborn St., Chicago, Ill., for book "How to Raise Chicks," which will be supplied for 75 cents postpaid.

Seed of White Flint Corn.

Q. Please tell me where I can get seed of Rhode Island white flint corn. Woodbury, Conn. H. L. G.

A. Good flint corn seed is very scarce. Seed houses have been buying up about everything that looks like white or yellow flint corn, and some are selling seed that will prove a disappointment. He may not thank me for telling you, but last year I got a supply of Rhode Island white flint corn from F. W. C. Almy, Tiverton Four Corners, Rhode Island. He grows it for himself and does not offer it for sale, but might possibly be persuaded to part with a little seed to help a brother poultryman.

Fresh Eggs with Foul Odor and Taste.

Q. (1) Last summer for the first time, eggs laid and boiled on the same day, on being opened smelled and tasted badly. The smell nearly made me sick. When I first noticed it, I leg-banded every hen and for two days I trap-

nested every hen, marked band number on egg and boiled every egg. All eggs that proved strong I took the number and went out at night and killed the offending hen and buried her. The birds were on free range when tested and had skim-milk and clean oats to eat. Last fall I killed every hen and kept only 40 of the best pullets out of 90. Now we get 30 eggs a day and sometimes ten eggs smell badly as before. They are fine birds and good layers. I never force them and at present time no males are running with this flock.

A. (1) It is possible that the fault is not wholly with the hens. Nothing smells much worse than an egg that is not properly boiled. Eggs should be put in water just below the boiling point and cooked—not boiled—about 5 to 8 minutes for soft boiled and 10 to 15 minutes for hard boiled, depending upon how you like them.

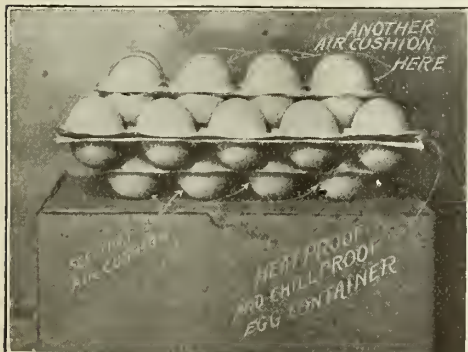
Of course, it is possible that some of your hens had vent gleet, a contagious catarrhal disease of vent and often extending into oviduct. Hens with this disease will sometimes lay very ill-smelling eggs. There is a foul odor to the moist discharge from vent not unlike putrid fish. The disease may be spread

WILD MALLARD DUCKS
 Raise "Wild Mallard Ducks," for table use, none better, very fine and rich of flavor. Hardest of ducks. Can be raised with poultry or other ducks. Will not leave.
 Sportsmen's "Natural Decoys."
 Eggs, per setting...\$5.00
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WOOLERY FARM
 American Bred-to-Lay White Orpingtons
 MATING LIST FREE
 WOOLERY FARM, Box A, Bloomington, Indiana



Note how each egg is carried in its own compartment, protected by air cushions at top and bottom.



Armingers Safety Hatching-Egg Carrier

**Heat Proof Shock Proof
 Chill Proof Fool Proof**

Don't run the risk of losing valuable hatching eggs by shipping them in old fashioned, inferior carriers. Armingers Carrier is the best thing ever invented for the purpose. All eggs are protected by air cushions and suspended in individual compartments, thus preventing all of the eggs getting soiled in case one is broken; however, accidents of this kind seldom occur. These carriers are made of material which is a non-conductor of heat or cold, and therefore there is little danger of eggs becoming overheated when placed near steam pipes or of becoming chilled when exposed to cold.

They cost no more than others, but are years ahead in safety.

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 Enclosed please find 30c for one of your 15-Egg Size Carriers.
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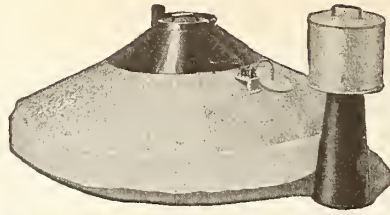
Express Prepaid

Owing to the abnormal conditions poultrymen are up against on account of the war, we feel it our duty to do all we can to help. Our Brooding Devices are dependable. At present one-third of our orders are from poultrymen who ordered a sample early in the season. For the next sixty days we are going to make poultrymen the very best prices possible to make on our Hovers. We will fill your order at the following prices, express prepaid.

Large Colony Hover, 50-inch Canopy, capacity 500 chicks.....\$21.50
 Harrysbourg Jr., 40-inch Canopy, capacity 300 chicks..... 18.50
 Coal Stove Connection, complete..... 11.50

These are our regular machines listed in our catalog, equipped with a Wickless Blue Flame Burner, which burns continuously without cleaning. We are in position to fill orders promptly, and guarantee every machine to give satisfaction, or we will refund your money in full. Send for catalog.

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Business-Bred Poultry will Win

252 Eggs
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Unprofitable poultry will not stand the test. Stock of proven ability will excel. Make a Quality start! Buy Shorewood Buff Leghorns and Rhode Island Whites. They have consistently proven their Winter Laying ability under official test. We own the birds which have made the Highest Official Egg Records to date in their varieties. Shorewood Poultry—stock, eggs or chicks—will help you be patriotic and make money too.

242 Eggs
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Get our 1918 mating list now and order quickly.

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From pen gotten in 1916 customer raised 24 pullets averaging 225 eggs per year. Is getting from 45 hens and pullets an average of 25 eggs per day in mid-winter. **Breeding Cockerels** that will improve your flock at \$5.00 to \$10.00 each. Vigorous **Baby Chicks** at \$20.00 per 100, safe delivery guaranteed. Selected **Eggs for Hatching** at \$10.00 per 100 and up. Avoid disappointment by booking your order early. Catalogue free.

Satisfaction always

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Large Capacity—Quick Shipment

THE ELYRIA HATCHERY CO. Box A ELYRIA, O.



IOWAIN STRAIN BUFF ORPINGTONS

In my pens I have 1st cock which won color special at Greater Chicago Show, 1918; 2nd cock, special for shape, 1918; sweepstakes young pen, Iowa National Buff Orpington Meet, Davenport, Ia., 1918; 1st cock, Iowa State Show, 1917, 1st and 2nd young pen; 2nd young pen, Greater Chicago Show, 1918.

EGGS FOR HATCHING

from these grand birds. Remember, when you buy eggs of me you are not buying a "pig in a poke," but the production of birds that have been O. K'd by the judge.

Send for Mating List today.

F. S. JORDAN, Springville, Iowa

GREENAN'S IMPERIAL WHITE WYANDOTTES

Win at Chicago Coliseum, December, 1917

On eight birds shown, I won 2nd and 7th cock, 1st and 3rd hen, 6th cockerel, 2nd and 6th pullet, and special for champion female, shape and color. This was acknowledged by all to be the greatest quality bunch of White Wyandottes exhibited at Chicago in years. If you are in need of a cock or cockerel or breeding pen, write me, I have some grand birds for sale. Write for catalog.

JOHN B. GREENAN - - - DECKERVILLE, MICH.

"GOLDEN ROD" BUFF ORPINGTONS—ANNUAL SUMMER SALE

AFTER April 15th we will offer our entire breeding pens at 50% discount. \$50.00 male, \$25.00; \$25.00 male, \$15.00; \$10.00 male, \$5.00; \$75.00 pens, \$50.00; \$50.00 pens, \$25.00; \$25.00 pens, \$15.00.

We are offering some great bargains in \$25.00 pens. All stock shipped on approval.

Satisfaction Guaranteed or Money Refunded. RICHARD M. SEWARD, R. 1, Lewisstown, Ill.

through the flock by the cock bird. We prefer to kill birds so affected as treatment is seldom satisfactory.

Q. (2) How do you count on male birds running with the flock before you use the eggs, to make sure of good fertility?

Two Creeks, Man.

D. R.

A. (2) If no other male has been running with the hens eggs should be all right at end of first week. If other males have been with the flock, it may be two weeks to a month before you can be reasonably certain that eggs are fertilized by male last introduced.

Cockerel Doesn't Take on Flesh.

Q. I have a year old cockerel that has always been fed on scratch grain and chicken chowder, with greens once a day. He is large but light in weight, and his crop always seems to be empty. Bowels are all right. He does not appear to have anything the matter with him. Can you tell me why he does not put on flesh?

Little Rock, Ark.

R. H. P.

A. Try giving him a change from ready mixed food. Mix 10 percent good fish scrap or fine beef scrap with the mash and feed it moist. Give him what he will clean up promptly once a day. Give oats for a morning feed and a full feeding of corn at night. Feed him apart from the hens. Often a very gallant male will not eat enough while running with the hens and needs to be fed a few extras out of sight of his mates. Give green food daily.

Ducks and Geese.

Q. (1) We have both ducks and geese housed together to save room. Is there any danger of the gander and the duck hens mating, and would it affect the goose eggs any?

A. (1) No.

Q. (2) We have three geese and a gander, and eight ducks and a drake. Is this all right? Was not going to set any duck eggs, but wish to hatch the goose eggs.

Mt. Vernon, O.

C. T. T.

A. (2) Goose eggs should be all right. If you intend to hatch the duck eggs you should have two drakes for ducks. One drake to four or five ducks is about right.

House for Colony Brooder.

Q. We want to do our bit raising chickens and have bought an oil burning colony brooder. Shall buy about 400 chicks, as we have no place to operate incubators. We are undecided about the sort of house for a colony brooder. Thought of building one 10x20 ft. in size, with a partition in middle. Do not know whether to make it a shed roof or double pitch. Can you recommend any special make of stove brooders?

Gridley, Ill.

G. H. S.

A. Obviously, we cannot recommend any particular make of colony brooder. Most of those with which we have had experience are good, but different users have different likes, and what suits one man may not suit another. A good colony brooder house is shown in illustrations on pages 150-151 February issue; and you will find a good colony brooder article on page 324, March Journal; also most of the colony brooder manufacturers supply plans for houses recommended by them. With a 10x20 ft. house, we think you will find a shed roof cheaper and quite as satisfactory as a double pitch roof.

Horticulture for Poultry Keepers
 Conducted by Thos. F. Rigg, Iowa Falls, Iowa.

AT THIS writing, February 28, we are still in Florida and enjoying to the full the advantages of this most wonderful climate. But the home call is beginning to sound in our ears once in a while and I am anxious to get out among my trees and vines to give them the usual spring attention and care. There is always so much to be done if one would reap a full crop. It is real pleasure to do these offices for the fruit trees and berry bushes, for they appreciate all the kindnesses bestowed upon them. In a large portion of the northern states the fruit trees and vines and bushes should be sprayed with either lime sulphur or scalecide in March, before growth starts. Any needed pruning of fruit trees and vines should also be attended to at that time.

* * *

We have just returned from a cruise among the Florida Keys. It was a delightful week. The weather was glorious, the sea calm and the good boat "Silver Tip" behaved splendidly. We caught as many fish as we cared to, taking twenty-two varieties by rod and reel. I was very anxious to secure a tarpon, but could not get a strike by this, the gamiest of all fish. Mrs. Rigg caught her full share, landing a twenty-two pound King fish. I have fished in many waters, but nowhere do I enjoy fishing as I do here. I think the Florida waters the best fishing grounds in the entire country.

* * *

Vegetables by the car load are coming into Miami from Cuba. Here the cars are distributed to northern points. The Cuba growers made a killing last season because of the damage by frost to the Florida crop, and this season are doing the same thing. Tomatoes are now being sent north from here and the Florida growers who escaped frost damage

are getting big returns. New potatoes have been on the market for some time. In the Hastings district the growers are going to market a very profitable crop. Owing to the shortage of cars, the frost damage here, and the extreme cold weather in the north, the grape fruit growers have had great trouble marketing their crop this season.

* * *

I am a minister, and I own an acre of ground at the edge of Des Moines, which I intend to make my home when I retire from the ministry. I am going to put out some fruit upon this acre, and desire to make as few mistakes as I can. I desire very much the help of your experienced judgment. Would it be too much to ask you for the following, to me, very necessary information? What would you suggest to be the most profitable varieties of strawberries? What is the most profitable blackberry? Grape? Red Currant? Where can one get the Royal Purple raspberry, which I note you recommend so highly? Are you free to suggest to me the most reliable nursery company for stock to plant in my locality? Is northern grown better than Missouri grown stock for Central Iowa? What is the most helpful horticultural periodical? What is the best garden magazine? What is the best horticultural handbook or guide? Which is the better, one year or two-year-old apple trees? Iowa.

Roy W. Thomas.

You will find the following varieties of strawberries the most profitable: Haviland and Senator Dunlap, early; Brandywine and Sample, late. Haviland and Sample are imperfect in flowers and Dunlap and Brandywine will fertilize the bloom. These four varieties will give you an abundance of fruit and are especially well adapted to your soil and climatic conditions.

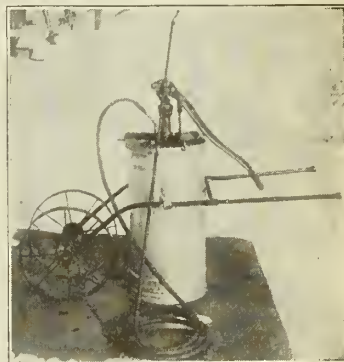
In blackberries I advise you to plant Eldorado and Mersereau. Would put in a few Snyder, for they will give you a crop every year, as they are extremely hardy.

For commercial planting the Concord and Worden are the best grapes. Of course you will want a few each of Delaware, Diamond, Niagara and Brighton.



The above pen of R. C. Reds in Missouri National Egg Laying Contest showed a 66 percent egg production during the four winter months and today holds the highest official record of the world. Owned by Riverview Poultry Farm, Klondike, Mo.

Ripley's 3-in-1 Portable Sprayer, White-washer and Disinfectant Machine
 Cog gear handle, brass cylinder and valves. Satisfaction guaranteed. The best sprayer made for spraying trees, vines, plants, or whitewashing buildings, disinfecting, etc.



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Peach Leaf Curl, Brown Rot, Apple Scab, Grape Mildew, Potato Blight, Cucumber Wilt, Bean Blight, Rose Mildew, etc.

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Jim Brown.

No home yard is complete without these varieties.

In red currants, the Ded Cross and Diploma are the very best.

You can get Royal Purple raspberry bushes from any reliable eastern nurseryman.

No, Iowa grown apple trees are no better for Iowa planting than the nursery trees grown in Missouri. I believe the best apple trees grown in America are those grown in the Ozark Mountains of Missouri. That section has ideal soil for the producing of a wonderful root system and this means a hardy, thrifty tree for the orchard. No one section or soil can produce the best of nursery stock in all kinds of fruit trees and vines. New York produces the best grape vines and cherry trees in the United States, and a portion of Arkansas and Maryland the very best peach trees. This nursery stock is the very best for planting as orchard stock in all fruit producing sections of the country.

The American Fruit Grower and *The Garden Magazine* will best suit your needs. *Commercial Fruit Growing* is a very good book. You can get a copy thru your local book seller.

I advise you to plant two-year-old apple trees. Do this by all means. There are very few one-year-old apple trees offered by the nurserymen that are fit to plant.

* * *

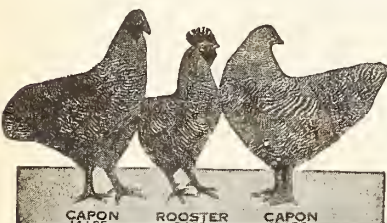
Please give me some information of More Haven, Fla., as it is being advertised as the richest land on earth. Would you think it advisable to locate there? Or do you think the highland of Polk or Lake County would be better for stock raising and fruit growing? Claims are made that it is more frost proof for citrus fruits than further south. Is that really so? I do not plan to go into fruit raising entirely. Would Northern Florida be just as good for stock raising and dairying with some fruit as a side line?

Kentucky, Gust Soder.

For fruit raising the lands in Polk and Lake Counties are far better than are the lands in the More Haven district. The Polk and Lake County land is ideal for fruit raising, being a sandy loam with a clay sub-soil. The More Haven land is a vegetable deposit and is extremely rich, being well adapted to vegetable raising. It is now producing some wonderfully productive crops. Many growers have paid for their lands in one potato crop. If you desire to produce vegetables, the More Haven land will give you desirable returns. The fruit producer should not locate there, but should plant his orchard in Polk or Lake County in preference. Personally, I think the best and most profitable citrus orcharding will always be on the lands such as are found in the Highlands of the state in these and one or two other counties.

You refer to the frost line. I have been coming to Florida each winter for many years. I have found by personal observation (the Government weather reports tell it) that there is no such thing as a frost line in the state. The entire state is subject to frost now and then. This season Avacada pear trees were severely injured as far south as Homestead. I am informed by the men in charge of the U. S. Experiment Station here that the frost killed some of the young pear trees in that most southern locality. Don't believe the land agent when he tells you there is no danger of loss of crop by frost. The land agent always places the frost line just north of where the land he is disposing of is located.

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R. R. No. 7
CEDAR VALE, KAN.

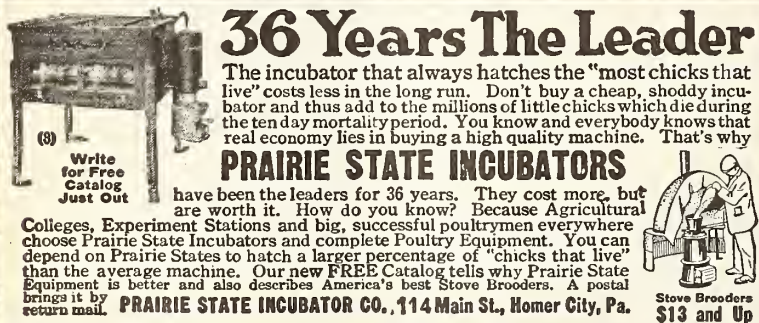
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have been the leaders for 36 years. They cost more, but are worth it. How do you know? Because Agricultural Colleges, Experiment Stations and big, successful poultrymen everywhere choose Prairie State Incubators and complete Poultry Equipment. You can depend on Prairie States to hatch a larger percentage of "chicks that live" than the average machine. Our new **FREE** Catalog tells why Prairie State Equipment is better and also describes America's best Stove Brooders. A postal brings it by return mail. **PRAIRIE STATE INCUBATOR CO., 114 Main St., Homer City, Pa.**



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Stove Brooders \$13 and Up

Rose Comb Anconas
Winners of first cockerel at Coliseum and Greater Chicago Shows, first pullet at Coliseum, second pullet at Greater Chicago.

Buff Orpingtons
Stock Raised from prize winners at Greater Chicago show. If you want birds to weigh and lay and pay, try Buff Orpingtons.

Eggs for Hatching
Write for my mating list. I can please you with the fine quality and remarkable values I am offering.

H. T. WINDSOR **BATAVIA, ILL.**

Single Comb Black and Buff Orpingtons

Winners at Chicago, Des Moines, Omaha, Cedar Rapids, Dubuque and St. Paul. At the late Davenport Show I won on Blacks, 1st and 2nd cock, 1st and 2nd hen, 2nd cockerel, 1st and 2nd pullet, 1st pen and Sweepstake pen of the entire show. On Buffs I won, 1st cockerel, 1st cock and 5th young pen, also club ribbon for best colored male and club ribbon for best shaped male. If you want Orpingtons that win and lay, write me your wants. Stock for sale. Send for mating list.

O. M. BROWN **Box G** **SLATER, IOWA**

Northern Florida is the best stock raising section of the state. The cattle industry is growing rapidly in that section. The raising of citrus fruits in that part of the state is very limited. There are no commercial orchards there.

* * *

Strawberries are retailing here at 65c to 80c per quart box. Why not plant an acreage of strawberry plants and get rich? Men have planted largely in a commercial way, but not one of them has remained long in the business. And the best answer to the why of this is that berries are selling at 80c per quart.

* * *

H. J. G., of Ohio, wants to know how much hen manure he shall use on a garden plot 40x80 ft. It is difficult to answer the question when put just that way. It depends somewhat on the nature of the soil and what crop is being raised. Hen manure can be used quite heavily if it is plowed under in early spring. If used as a top dressing it should be applied lightly and frequently.

* * *

The fishermen going out from this port are making a good deal of money. Never before have they received such prices for King fish and Spanish mackerel. Each night more than a hundred boats come in, each one bringing many hundreds of pounds of these fish. It is a wonderful sight to us northerners. These fish are sent to New York, largely.

* * *

I am writing for information in regard to peach borers. Should the gum spots on the limbs near the branches be dug out or are they near the surface of the ground?

Also are Houdan chickens as easy to raise as others and how will they compare against Rhode Island Reds? Would like to try some, but had some eggs last year that were hard to hatch, and those I did hatch, died after three months from lack of vitality. Please give me the name of a good Houdan breeder near Ohio.

Frank H. Panther.

As a rule the peach tree borers are found in the trunk of the tree both above and below ground. On badly affected trees some borers are found on limbs. The best method is to dig them out with a stiff wire. So far no wash has been found that is an effectual remedy against these borers. Sulfocide is the best thing so far discovered. In a peach orchard six years old, where each tree was painted with sulfocide twice a year, 96 percent of the trees are free from borers.

The Houdan chick is not hard to raise. In fact a well bred, well born Houdan chick is an extremely active and vigorous youngster.

The Houdan is a good layer of extremely large, pure white eggs. They will not lay as well in winter as will the Rhode Island Reds, but will produce more eggs in spring and summer than the Reds. As a table fowl they are far superior to the Reds. Consult advertising columns of AMERICAN POULTRY JOURNAL for names of Houdan breeders.

* * *

Your plum comments are interesting. Give us more data about varieties suitable for our climate—that of Northern Illinois and Iowa. What do you think of the Admiral Schley plum which a big seed house at Shenandoah says took first premium for two years at Iowa State Fair? In a planting of plums for Northern Illinois, which would you favor, the Americans or natives, the Europeans or the hybrids? I note of natives you put the Surprise at the top of the list. You have good company. Prof. Goff, of Wisconsin, did the same thing.

What do you think of the judgment of Prof. F. A. Waugh as given in his book, "Plums and Plum Culture," page 52, which says,

"I have said elsewhere that in my opinion the finest quality known among plums—that is



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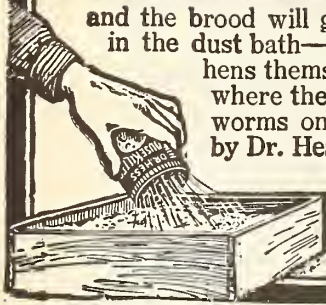
and the brood will get a good start, free from lice. Put it in the dust bath—that's always a good thing to do. The hens themselves work it into their feathers right where the lice live. It's fine for killing bugs and worms on vines, roses and plants. Guaranteed by Dr. Hess and sold by 28,000 dealers.

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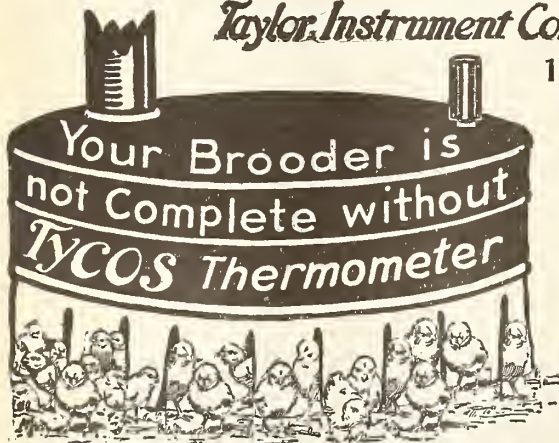
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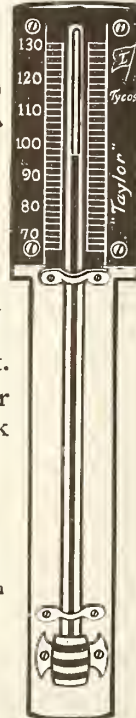
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Interesting booklet "Incubator Facts Worth Knowing"—free.



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America must grow more poultry this year so let us all do our bit. We will help you in your needs; we have free range stock. White and Barred Rocks, Rose and Single Comb Reds, White Wyandottes, Buff Orpingtons, Anconas, White and Brown Leghorns. Get our free catalogue

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of all kinds and descriptions. It gives complete plans. How to make feed troughs, nest boxes, water troughs, roosts, dropping boards, brood coops, brooder houses, fattening coops, colony houses, winter and summer houses, etc. Price 50c. AMERICAN POULTRY JOURNAL PUB. CO., 542 South Dearborn Street Chicago, Illinois



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128 pages, profusely illustrated. An a to z manual for everyone who keeps fowls. Written by Prince P. Woods, a man who knows how and how to teach others. Cloth bound, price 75c. American Poultry Journal Pub. Co., 542 S. Dearborn St., Chicago, Illinois.

to say, in the whole kingdom of fruit—is to be found in some of the fine Americans when they are 'just right.' Other plums are more meaty, some are sweeter, many are better for eating out of hand, but the fine bouquet of flavors presented by the Americans cannot be surpassed."

What is your opinion of the Davenport plum? Its propagators at Des Moines say it is the best yellow native, almost as good as their favorite, the Terry, a red plum. Illinois. W. V. S.

I am always pleased to enter into a discussion on the plum. It is not only a valuable fruit, but a most interesting one. I think less attention is paid to this fruit than to any of the other fruits. "W. V. S." in the above letter and in his former letter discusses the subject so ably and so earnestly that I am sure he and I can be of some service to AMERICAN POULTRY JOURNAL readers.

I have tried out practically all the varieties of plums on my grounds. There are some good plums which we cannot raise in Iowa and Northern Illinois, but there are many of the best which we can produce there. For the commercial planting of plums in those states I would recommend the following:

Omaha, Surprise, Wyant and Desota. An orchard of those varieties will give more baskets of plums than any other like number of trees, I care not what varieties or families they may be. The Omaha is a marvel in productiveness. The tree is entirely hardy and the plums are extremely large, of a beautiful coral red. The Surprise is as large and as productive. The Wyant is really as large and in quality extra good. In dollars these five varieties are the big winners. The Desota is enormously productive and the tree is hardy. I name it as it is a fine variety to use as a pollinizer of the other varieties. The fact is coming home to our authorities that the native plums are in all practical ways the most profitable. The Japanese plums are commercially worthless in the Mid-West. The European family are too tender for commercial planting and too subject to disease. I agree fully with Prof. Waugh. I have not yet fruited the Admiral Schley plum. I have seen fruits of this variety and I consider it inferior in fruit to the Omaha, the Wyant and the Surprise. Neither have I fruited the Davenport plum. It may be all that its originators claim. I am going to plant it in my trial grounds.

I want to strongly urge my readers to stick to the American family of plums in their plantings in the Mid-West. We want the plum orchard to produce an annual crop of plums and dollars, and these varieties will surely do this for the thoughtful, thoro orchardist. No other family of plums will do this.

Of course the home garden should have a tree or two of Gold, America and Endicott. They are fine plums and well worth the extra care they require. The America is practically free of blight and of rot. I intended to say when speaking of the Omaha that unlike most plums this variety can be picked while green and will ripen up nicely. In a season when the brown rot is extremely severe, this is a big advantage. Plum rot has no power to frighten or damage me now. I spray each tree with sulfocide just as the bloom is falling, and about twice during the growth of the fruit.

* * *

Resolve to plant a few currant, gooseberry and raspberry bushes and grape vines in the home yard this spring. No home is complete without these fruits. It is a duty every man owes his family.

Would it be wise to put out an apple orchard of about 1,500 trees with conditions as they are at present? How is the climate and soil in this vicinity in regard to orcharding? What effect has the sea air on apple growing? What varieties of apples would you recommend?

I see that American Poultry Journal encourages fruit and poultry growing. Would you advise buying pullets or chickens? I am thirty years old, married and have two children. We are all healthy. I have been in the grocery business for six years. I have \$3,000 to invest in starting a fruit and poultry farm. How big a farm would you advise me to buy for this purpose?
Massachusetts.

J. M. Duphily.

As I do not know the character of the soil and am unacquainted with other local conditions in your immediate vicinity, I cannot advise you regarding the planting of an apple orchard in the vicinity to which you refer.

Nearness to the sea is not detrimental to an orchard if the orchard is situated on the proper kind of soil and has air drainage. In fact, nearness to the sea would be beneficial. Of course I cannot advise you as to what you should do in this matter of establishing a home for your dear ones.

However, I am sure that any man of thirty years can hardly build better for the future maintenance and happiness and comfort of his family than by planting a 1,500 tree apple orchard in the proper soil and location in Massachusetts.

1,500 apple trees will occupy thirty acres of ground. I certainly would advise, no less an acreage. You should figure on a complete home farm in making your calculations. You will want to keep a cow or two, enough hogs to supply your family with different pork products. Then the poultry must be considered. How much more land you will need in addition to the orchard land you alone can decide.

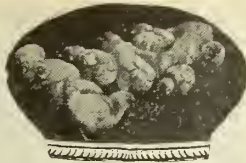
You ask if it be wise to plant an apple orchard under present conditions. I want to answer "Yes," most emphatically. I believe the present to be the most favored time to plant an apple orchard. There has never been a time in the past, and in my judgment there never will be a time, when extra choice apples will be plenty enough to supply the demand.

America must not only raise the apples to supply our own people, but for the next twenty-five years must supply the whole world with this most popular of all fruits. The orchards of Europe are shot to pieces. It will be years before much planting of trees over there is attempted on a large scale, and many, many years before normal crops will be produced there.

The man who at thirty years of age plants an apple orchard of the right varieties in the right place at this time, and gives the trees proper care, is laying a foundation for a business which is bound to give him big returns in the near future. I know of no other business which gives such assurance of success.

As to varieties to plant in your state. Were I to put out an orchard in Massachusetts, I would plant McIntosh Red and Wealthy. I am aware that the Baldwin is popular in your state, but I would leave the growing of that variety as well as the R. I. Greening to the New York fellows. The McIntosh Red is thoroely hardy in your state. It is an apple which people demand and for which they will pay the very top price. The demand has always been far greater than the supply and this will always be so. It is an early winter apple. It is

BABY CHIX



S. C. W.

S. C.

Leghorns

Anconas

THE EGG MACHINES OF THE POULTRY WORLD

from carefully culled flocks of the above two money-making varieties. "Laying ability" has been the keynote of my efforts, and as the birds have the best of free range in fruit orchards, the chicks are strong, lusty fellows, full of "pep."

Chicks of either of above varieties, each.....\$.20
In quantities of 100 or more, per 100..... 18.00

Hatching Eggs

Per Setting..... \$1.50 Per 100..... \$10.00

PYOTE POULTRY FARM - J. W. Mirfield, Proprietor - CORDOVA, ILLINOIS

HATCHING EGGS

From Our Bred-To-Lay White Wyandottes

Our pens this year are headed by the best males we have ever owned - vigorous, prolific birds of standard type.

EGGS 15 for \$1.50 | 50 for \$5.00
30 for 3.00 | 100 for 8.00

Stock for sale. Also some very fine young cockerels at \$5.00, \$10.00 and \$15.00 each.

MILLS CREEK POULTRY FARM, W. J. Forrest, Prop., EAGLEVILLE, OHIO



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S

WHITE QUILL

White Rocks

Winners Chicago Coliseum, Milwaukee Auditorium and Wisconsin State Fair. At Milwaukee, January, 1918, in a large class of quality White Rocks my birds won: Cock, 2d; Hen, 1st, 5th; Cockerel, 3d, 5th; Pullet, 2d, 5th; Young Pen, 1st, and Best Display. My matings this year are better than ever before. They include all my prize winners for the past years, as well as my heavy-laying females. If you are looking for Egg-Laying and SHOW qualities combined, write for my mating list and I am sure that I can please you.

A. F. POLTL - HARTFORD, WIS.

C
H
I
X

Williams' White Wyandottes

1896 — Champions of 1916-17-18 — 1918

I bred, raised and exhibited 26 out of a possible 32 first prize birds at Hagerstown, 1916, and the last two Garden shows, also 7 second prizes, 3 of them where I lost first. Is not this proof that I can mate birds from my own flock that will produce for you? Why not get a mated trio or pen that will produce real Wyandottes for you and put you on the map with successful poultrymen? Quality breeders at \$5 to \$25 each, either sex. Eggs from best matings, \$10 per 13; \$25 per 40. No mating list, order from this advertisement. My catalogue free.

F. B. WILLIAMS - Box H, Naugatuck, Conn.

Huber's Baby Chicks

250,000 for 1918. 10 leading varieties. \$11.00 per 100 and up. Chicks that are hatched right from the best laying and exhibition strains. Special combination offer on chicks and brooders. Branch Hatchery at Augusta, Kansas. Give us a trial and be convinced that we will give you the best chicks for the money. Free catalog.

HUBER'S RELIABLE HATCHERY - 317 W. Fremont Street - FOSTORIA, OHIO

Poultryman's Pocket Companion

Guaranteed genuine leather pocketbook.

Combination Bill-fold, Coin-purse, Card and Photo-case of Finest, Genuine Black Seal Grain Leather for only 50c, postpaid (\$5.40 per doz.) Any name beautifully engraved in 23-Karat Genuine Gold free (street number and city 20c each extra.) Measures 3x4 3/4-in. folded. Has coin-purse, bill-pocket, photo or pass-window; 2 secret pockets, check book holder and 48-page Memo-Book, brimful of information. 12th annual catalog, Guaranteed Leather Goods and Novelties free with orders for "Bankroll" or sent alone for 10c postage.

U. S. LEATHER GOODS COMPANY, Established 1906
Dept. 80A, 106-8-10 W. Lake St., Chicago Incorporated 1910



23-KARAT GOLD NAME
BILL-FOLD CHECKBOOK HOLDER
MEMO-DIARY

50 CENTS Postpaid
Fits any Pocket For Ladies and Gentlemen Satisfaction Guaranteed

MINORCAS Giant Single Comb BLACKS

EGGS - EGGS - EGGS - Reduced prices on some of the best matings in the country. Write today for my catalog and conservation mating list, and start a flock of Giant Minorcas, and have the best.

JOHN L. BROWN 1515 W. 7th Street ANDERSON, IND.

You Should Send 25c for Our New Poultry Account Book.

RAISE EVERY CHICK

More chickens this year than ever before. More for your table, more for market.

That's the demand. You need them to replace high-priced meats. The country needs them for the same purpose.

The opportunity to make money and save money with poultry was never so great as now. But you must make every chick from your high-priced eggs grow, and every ounce of your high-priced feed produce meat.

Certainty of success—of raising every chick that is right to marketable age quickly—is insured when you use the

STANDARD Colony Brooder

It stops the frightful losses so common to the brooder period. Makes three chicks grow where one grew before. Broods 100 to 1000 chicks with equal success, at a cost of less than 6 cents a day. Burns hard or soft coal. Fire lasts 24 hours from one filling. Cuts installation and operating cost to less than half—labor cost to less than a fourth.

Absolutely safe and sanitary. Nothing to catch fire; no corners where chicks may be crushed; no wooden walls or curtains to harbor vermin and dirt. Complete ventilation without drafts. Nothing to it but a smooth, solid cast iron stove, a clean galvanized steel hover, and the regulating apparatus. Nothing to wear out. Positively self-feeding and self-regulating.

It is so good that it has many imitations. But our patents will be protected. Make sure you get the Standard. We are so certain that it is the best brooder ever built, so sure it will satisfy, that we let you

Write Your Own Guarantee

What do you want a brooder to do for you? Write it down. We'll sign it. And if the Standard does not fulfill your guarantee in every particular we will return your money without argument.

The Standard is endorsed by all agricultural colleges and experiment stations. Among more than 30,000 enthusiastic users, big and little, not one failure has ever been reported.

Over 6000 dealers sell it. The one nearest you will be glad to show you the Standard in operation.

Write for the Buckeye Catalog and get the most wonderful testimonials of chick raising success you ever read.

A post card request will bring it.

The Buckeye Incubator Co.

11 Euclid Ave., Springfield, Ohio

Pacific Coast Branch, Box 11
Oakland, California



not a good keeper, but no grower of McIntosh Reds will be obliged to worry about that because he will never need to keep these beautiful, high quality apples for any length of time. The wealthy is a fall apple, very productive, hardy, of high quality and brings fancy prices in the market.

You should figure on quite a large planting of small fruits. Also make use of the land occupied by the young trees until they come to bearing age. It requires fine judgment to inter-crop a young apple orchard and I am not going to go into that so far as your case is concerned. I advise you to consult with the horticultural authorities of your state. Do not fail to do this. It is of the greatest importance.

Buffalo, N. Y., February 20, 1918.
Editor AMERICAN POULTRY JOURNAL.

Dear Sir—The unfortunate and deluded Russians are now looking for a master leader; the drowning man reaches out for even a straw; the poultryman paying the highest price for feed in his existence, hoping against hope for relief and no one to even offer a suggestion that looks like real money. This is a day of conservation in poultry raising. Not one kernel of grain must be wasted on unprofitable hens. Not a thimbleful of mash to a puny chick and not one puny chick for the mash. Not one egg for incubation that either will not hatch at all, or, if hatched, propagate the weaklings. Debility in chicks is transmitted thru the low specific gravity eggs incubated. Avoid the cause and you avoid such results. As manager of incubation in one of the largest poultry plants in the world, for seven years, my experience should be of value as a guide to beginners, particularly.

I was deeply interested in the findings of M. M. Jacobs as set forth in his article, which appeared in a leading poultry journal for February, on his experience in hatching eggs of high specific gravity. His unqualified support of that system of egg selection accords with my practice before incubation and during incubation as a daily register of proper moisture.

A completely normal egg is of high specific gravity, and a completely normal chick comes from no other kind of egg, therefore conservation of eggs for hatching compels the selection of high specific gravity eggs exclusively, and table use of all others.

Conservation of eggs along these lines will result in a saving of every feature of poultry culture and organize victory out of defeat. The practical instrument for registering the specific gravity of eggs is the same as I have used for ten years and sold, generally, by large poultry supply houses.

Buffalo, N. Y. JAMES G. DUNHAM.

SAVE FEED MONEY



Conserve now by using IDEAL Economy Dry Feed Hopper—stops waste, keeps out rain, rats and birds. Weight of fowl on step opens door inward when feeding; automatically closes upon leaving. Roll bottom prevents fowl from hooking out or wasting feed. Constructed of galvanized iron, designed for feeding whole or cracked grain, dry mash, grit, oyster shells, etc. It saves work, can't clog or get out of order. See your dealer today; write for information and literature.

Satisfaction Guaranteed or Money Refunded

ROCKFORD POULTRY SUPPLY CO.
Box J0201 ROCKFORD, ILL.

Rhode Island Whites in the Egg Laying Contests.

The Rose Comb Rhode Island Whites made an average of 226 eggs per hen in the National Egg Laying Contest at Mountain Grove, Mo., which closed November 1, 1917. An average of 31 eggs per hen more than any other variety. Every hen proved to be more than a 200-egg hen and one laid 268 eggs. This pen won both the December and January cups. Does this sound like *winter egg production*?

At the International Egg Laying Contest, Victoria, Canada, the Rhode Island Whites made the best record for eggs during the five winter months, making an average of 4.4 eggs more than their nearest competitor. They finished the contest holding third place for the entire year.

During the month of February, 1917, at a preliminary egg laying contest at Phoenix, Arizona, the two highest hens were Rhode Island Whites. At the close of the second month the Rhode

Island Whites held first, second and third places.

The Rhode Island Whites are in the contests again this year and are nobly holding their own. One pen is listed among the five best pens at the American Contest for the first month. And one pen at the All Northwest Contest has shown up three excellent layers during the first month. Truly they are the patriotic breed, the breed that is forging ahead and proving its value during these times "when men's souls are tried."

MRS. C. M. UNTRUS.

Save the Unhatched Chick



Don't Be Content with Medium Hatches and Weak, Crippled Chicks. Get the Real Profits from Your Time and Investment



Egg-O-Hatch Helps the Chicks Through the Critical Stage of Incubation. It makes no difference what machine you use, or if you depend entirely upon hens, Egg-O-Hatch will bring you 10 to 40 per cent larger hatches and your chicks will be stronger and easier to raise.

I will take all the risk just to prove that Egg-O-Hatch is a big profit maker for you

There is nothing mysterious or unnatural about Egg-O-Hatch. During incubation fresh air for the chick goes in and the poisonous gas exhaled passes out, through the pores of the shell. Breathing is accomplished by blood vessels in the inner membrane just within the shell.

Often during this period many of the shell pores become clogged or closed, partly suffocating and weakening the chick. As a further handicap, the shell itself tends to become tougher and more difficult to break.

Under perfect conditions, a chick has just barely sufficient strength to get out at hatching time. Partly strangled and weakened and held by a hard, leathery shell, its chances are greatly lessened. Usually these chicks die. The few that do get out are too frail and puny to raise.

Egg-O-Hatch Strengthens the Chick and Weakens the Shell

EGG-O-HATCH applied to eggs during incubation furnishes free oxygen and absorbs the poisonous carbon

dioxide, thus greatly strengthening the chick. At the same time it disintegrates or rots the shell, making it easy for the chick to break. With this help through the critical period more of the chicks hatch and are stronger and easier to raise.

Egg-O-Hatch is tried and proven—not an experiment. I know it will do all I say it will; thousands of users the country over tell me it does even better. I am so confident of satisfactory results with you that I make this proposition:

Give Egg-O-Hatch what you consider a fair trial, following my simple instructions, and if you do not get more and better chicks than you can get without it, return the jar to me and I will refund your money.

Egg-O-Hatch comes in powder form. It is mixed with water and applied by dipping, sprinkling or spraying. One size only—50c. Get a jar now from any Lee dealer or send to us. Use the attached coupon.

302

GEO. H. LEE CO., Omaha, Neb.

Gentlemen: Enclosed find 50c. for which send me a jar of Egg-O-Hatch.

Enclosed find 5c stamps, for which send me the Lee Library and full information about the LEE WAY to Poultry Success.

THE LEE WAY TO POULTRY PROFITS

Raising chicks is a highly profitable business, if conducted in a systematic, businesslike way. It should be vastly more profitable this year than ever before.

I have prepared a series of booklets which point out the pitfalls in this work and tell how to avoid them. They explain how you can get more and better chicks from every hatch, how you can easily keep your flock healthy and free from vermin, how you can keep the hens laying regularly all year 'round, how you can preserve spring and summer eggs perfectly nine months to a year, how to house chickens properly, etc.

This information is based upon more than thirty years' practical experience. I have arranged it so as to give you a definite plan to follow. This plan I have called the LEE WAY.

I want you to have this information. It is free at any dealer handling Lee preparations or, for 5 cents stamps to cover postage, I will mail it to you. Use the attached coupon.

Name.....

Address.....

State..... R. R. Box.....



GEO. H. LEE CO., 302 Lee Bldg., Omaha, Neb.

WHAT'S THE MATTER WITH THE POULTRY BUSINESS?

By GEORGE BEVOY, Cedar Vale, Kas.

MARKET poultry was sold at an actual loss by the producer last season (1917). It is to point out the reason why and to suggest a remedy that I write this article. A farmer and a poultry raiser all my life, I have often faced the same situation in previous years. As long as it was a matter of only my personal gain I hesitated to call attention to the actual facts.

A patriotic duty now confronts me, it is no longer a matter of personal choice. I have been appointed on a National Committee and it is a part of my duty to help increase the poultry and egg supply. This I know should be done and it demands quick action at once.

The American poultry raiser will respond to this call, there is no doubt about that, once he is assured of a fair deal. Without that assurance how can these things be asked of him? Last year that assurance was lacking, hence the loss to the market poultry grower and the present crisis in that industry.

The consumer says he paid enough to cover all cost of producing the poultry and eggs. He is right, he certainly did pay enough. The selling prices to the consumer are high enough to allow everybody handling poultry and eggs a fair profit.

The trouble can be located in or at the packing or cold storage plants. No great knowledge of the poultry business is necessary to arrive at this correct conclusion. In Kansas during the year just passed the average price paid for the bulk of the egg crop to the actual producer was less than 25 cents a dozen. Those eggs are now (February 5) selling to the consumer at an average price of 60 cents a dozen. Or 35 cents a dozen more than the actual farmer or poultry raiser received. Those eggs could and should have been handled at a cost not to exceed 5 cents a dozen. Allowing an added profit of ten cents a dozen, which is too much, and there is a rake-off to some one of 20 cents a dozen. More than \$6.00 per case that should have been divided between the producer and the consumer.

If that had been done then everybody interested would have handled poultry at a profit and would be happy and contented in so far as the poultry situation is concerned. The producer would be anxious to raise more poultry and eggs. Then it would not be necessary to get after us and yell for increased poultry production.

The above prices refer to eggs; poultry on the market is even worse. In Kansas last year the average price paid for live poultry was around or less than 15 cents a pound to the actual producer.

Right now those same chickens held in storage are selling for around 35 cents a pound or over. And the producer and the consumer have both been pinched in an easy smooth sort of way. The producer has just sold out his supply of poultry as the easiest way out. Hence the present shortage and the demand for increasing production.

I have summed up the situation as a whole. The United States is a big country, and I know that there are some exceptions to above statements. In some places it is not so bad, in other places it is worse, but as a whole the above is a fair average condition in the states that produce the bulk of our poultry.

On behalf of the poultry raiser, the American farmer and as a patriotic duty, I make this appeal: Give the poultry consumer and producer a Government Guarantee of a fair, honest, comparative price for buying and selling poultry and eggs or Government operation of the cold-storage and packing plants. The producer must have this assurance if productions are increased as they should be.

The way to get this thing done is to ask for it at the proper place. If enough of us make the request it will be granted. If you desire an increased egg and poultry production do your part, write at once to Hon. Mr. Hoover, Food Controller, Washington, D. C., ask that the poultry products be guaranteed a fair price or that the Government take control of the packing and cold storage plants.

Give the producer this assurance and the increased production will be assured. To get this is necessary. Write at once.

Do you breed S. C. W. Leghorns?

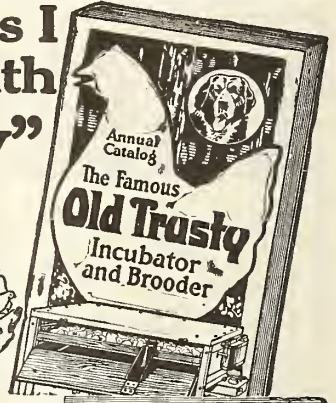
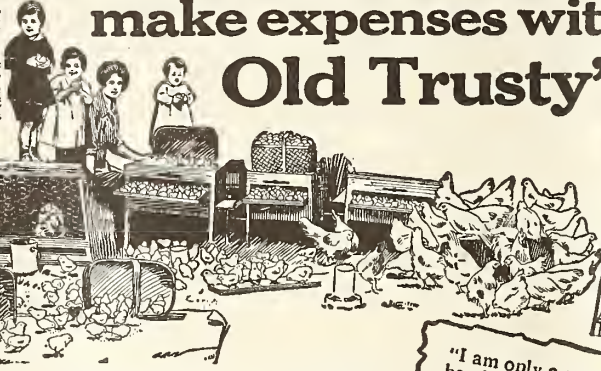
Would you like to have a fine catalog of your own, handsomely illustrated in colors, but find the cost too much? If so, send for a sample and prices of my special catalog for S. C. White Leghorn breeders. Catalogs in colors from \$7.00 up. THOS. NASH, 542 S. Dearborn St., CHICAGO, ILL.



H. H. JOHNSON "The Incubator Man"

"While my husband farms I make expenses with Old Trusty"

As "Incubator Man" I am glad to own the title. A good incubator man is destined to stay in business. We made our first incubator in 1891.



"I am only a renter's wife, but while my husband farms I make expenses at home and hope to help buy a farm soon. I am not tied at home because of an incubator. I go away for a home day. I have three children under 7 years of age and there are three others in our family. I couldn't do without Old Trusty." Mrs. Maude Huffman, breeder of S. C. White Leghorns, Eagletown, Okla.

THIS letter squarely answers the poultry question on your farm. Please read it. There are two points to this letter—More Chickens and Old Trusty. More chickens mean a bigger income, and the easiest way to get them is with Old Trusty as proved again and again by over 750,000 owners. Send me your name and

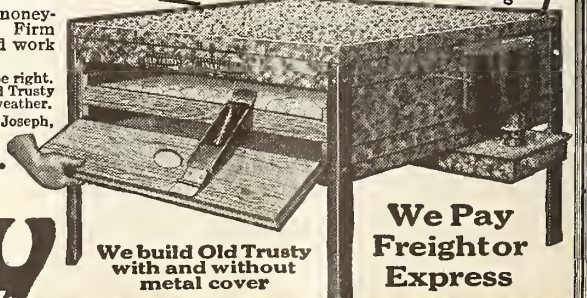
Get This New Johnson Book of Poultry "Know-How" FREE

and learn why Old Trusty owners succeed so well and raise big flocks of money-making chickens year after year. The secret is in the way Old Trusty is built. Firm and substantial—to last for years. Oldest machines are still doing as good work as ever. Many have been in constant use 10 to 14 years.

You see Old Trusty was invented by an engineer and poultry raiser, and it just had to be right. You want Old Trusty this year. With big profits and valuable books at stake you want Old Trusty to make every hatch count. Old Trusty makes big average hatches even in coldest weather. We pay the freight or express. Quick shipment from Clay Center, or warehouse at St. Joseph, Mo. Write today. Yours truly, H. H. JOHNSON, Mgr.

THE M. M. JOHNSON COMPANY, Clay Center, Neb.

Old Trusty

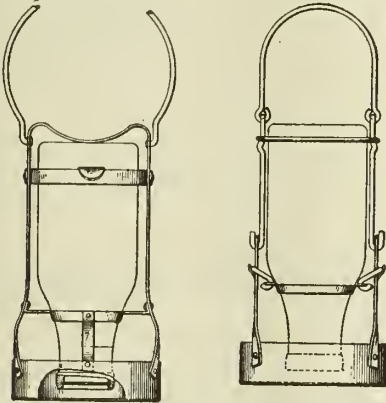


We build Old Trusty with and without metal cover

We Pay Freight or Express

Recent Inventions for Poultrymen
By Lester L. Sargent, Patent Attorney, Washington, D.C.

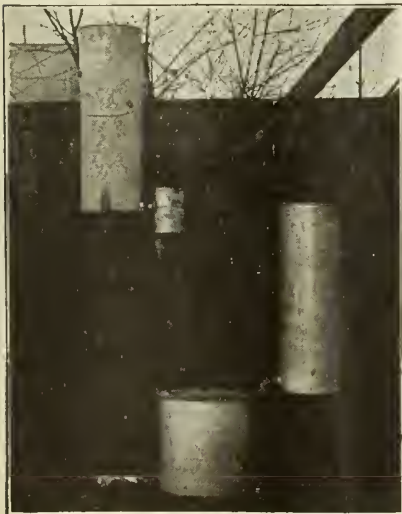
A NEW water fountain and feed hopper, invented by Harry A. Stevens, of Batavia, Illinois, is constructed to hold an ordinary glass milk bottle in inverted position with its mount in the pan which forms the base of the device. The fountain is especially adapted for feeding sour milk, by reason of its capability



Water Fountain and Feed Hopper, patented by H. A. Stevens, Batavia, Ill. Patent No. 1,251,935.

for holding the ordinary milk bottle. Patent No. 1,251,935.

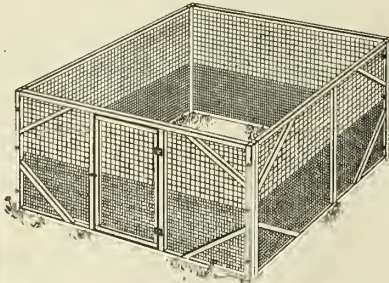
A fountain in which a constant level of drinking water may be maintained for a considerable time, supplied automatically from a second container, has been devised by Lot A. Hufferd, of Detroit, Michigan. It is available for watering poultry, and also as a general watering trough for larger animals on the farm. The apparatus consists of an upper tank and a lower tank, with an open-ended pipe connecting the two tanks and having its upper end located above the level of the liquid in the upper tank and its lower end located below the level of the liquid in the lower tank. A float movable with the rise and fall of the liquid



Drinking Fountain, patented by Lot A. Hufferd, Detroit, Mich. Patent No. 1,241,982 and supplemented by patent No. 1,249,404.

in the lower tank, a siphon carried by the float and arranged to convey liquid from the upper tank into the pipe, provides the means for automatically regulating the supply of water to the lower tank or drinking fountain as it is required. The patent is No. 1,241,982, which is supplemented by patent No. 1,249,404, the latter including as a part of the apparatus an intermediate chamber or water column adapted to be sealed by the water flowing into it and including an inner pipe extending not quite to the top of the outer column, the intermediate chamber serving to maintain a condition of equilibrium between the different water levels of the supply tank and the feed or lower watering tank or trough, the air trapped in the intermediate chamber serving to control the passage of water thru this intermediate chamber. Water in the feed trough remains constant, however much water in supply tank varies.

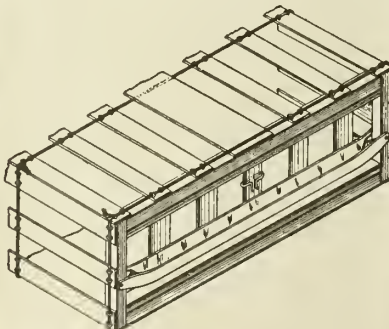
A portable fence invented by Alexander H. Schlesinger, of New York City, is, made in rectangular sections which are bolted together and which permit of



Portable Fence, patented by Alexander H. Schlesinger, New York City. Patent No. 1,251,926.

enlargement by incorporation of other sections, in a somewhat similar fashion to that followed in the unit or expansion bookcases in your library. Patent No. 1,251,926.

A feed trough for poultry crates, devised by Don L. Quinn, of Oak Park, Illinois, and assigned to the Chicago Mill and Lumber Company, is formed of water proofed fiber-board paper, and is adapted for attachment to poultry ship-



Feed Trough for Poultry Crates, patented by D. L. Quinn, Oak Park, Ill. Patent No. 1,253,723.

ping crates. The ends of the trough are divided so that spaced extensions may



Coupon for Big Trial Size

Klein-Lambert Co.,
601 Traders Bldg.,
Chicago, Ill.

Dear Sirs:
Please find enclosed ten cents (10c) for which send me Big Trial Size of "Death-to-Lice," as advertised in AMERICAN POULTRY JOURNAL.

Name _____
Address _____
City _____ State _____

Makes 'Em Turn up Their Toes Mighty Quick

There isn't a ghost of a show for lice and mites on hens, chicks or nests after a dust with the old reliable Lambert's Death to Lice. It knocks 'em stiff in a jiff. As one of the big successful poultrymen wrote us, "It is impossible to get along without your louse killer," so it is with every user. There's nothing so efficient.

Don't Experiment

Follow the example of the leaders—ask any successful poultryman which lice killer has been the standard for 30 years—which is acknowledged BEST. He will tell you to

Get Lambert's

OLD RELIABLE DEATH TO LICE

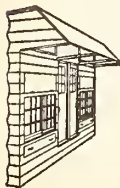


because he has found it *always* the BEST.

Don't expect to make your hens pay and permit lice to worry and annoy them. The lice will get the profit and often the hens and chicks, too. A few cents invested in Death to Lice will bring dollars in profit. Just the thing for layers, sitters, and exhibition sock. Will not injure eggs, chicks or hens or soil plumage. Get a 5 oz., 10c box at dealers to try (or send to us direct if he can't supply you). Other sizes 25c, 50c and \$1.00. Lambert's Latest copy of "POCKET BOOK OF POINTERS," a valuable book for poultry raisers. Mailed for 2c stamp.

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CAPONIZING and VENTILATION



Users of the "Burdin Design" Capon Tools and Draft Proof Houses are delighted. No failures. Satisfaction guaranteed or money refunded. Tools and instructions \$5. Book of Plans and details \$1. Both \$5.75. Add 10c to personal checks. Customers recent experiences with each, and descriptive literature 6c in stamps.

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SPILLER'S Colored Bands

ARE OF THE HIGHEST QUALITY

Extremely Durable Intensely Practical

Made in 12 colors, big double or single numbers, figures always black on white.

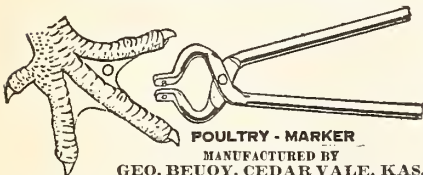
Products of superlative character, individuality and reputation are made only from materials of quality.

Our Special Trap Nest Bands are the best ever. Our Coil Baby Chick Bands are a phenomenal success.

May we send you catalog with samples?

ARTHUR P. SPILLER Box A Beverly, Mass.

"ALL STEEL" 4-inch handles



POULTRY - MARKER

MANUFACTURED BY
GEO. BEUOY, CEDAR VALE, KAS.

A REAL HIGH CLASS (nickled plated)

Poultry Marker

Prepaid to your address for only 50 cts. CAPON TOOLS also. PARTICULARS FREE.

GEORGE BEUOY, R. R. 7, CEDAR VALE, KAS.

LIGHT BRAHMAS

WINNERS AT CHICAGO 1917

THE BIG KIND THAT WIN AND LAY birds that have standard type and color. The quality of my stock simply cannot be excelled and my prices for same are most reasonable. Eggs for Hatching from all matings, as they run, \$3 per setting. Stock for Sale.

JOHN BLANCHARD Columbus, Wis.



RAISING WAR BABIES?

The U. S. expects every one to do their bit, are you? Baby Chicks, S. C. White Leghorns, Eggs for Hatching. (Barron's and Trapped, of course). Some April and May dates still open. Catalog free.

BAVILLIE FARMS

"Utility Breeders," Box A, Bayville, N.J.

WARNOCK'S

BROWN LEGHORNS

EGGS FOR HATCHING from four grand matings, \$3 and \$5 per setting; free range flock \$6 per 100. Booklet.

W. G. WARNOCK - R. 4 - GENESEO, ILL.



Light Brahmas

At Cleveland we won

1st and 2d Cock 1st Hen
1st Cockerel 1st Pullet

Hatching Eggs \$3.00 and \$5.00 per setting. Pullets and Cockerels, \$5.00, \$7.50 and \$10.00 each.

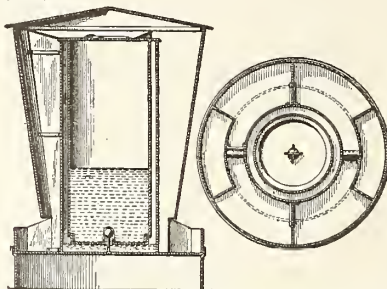
Geo. C. Wright & Son, 2335 Riverside Road, Lakewood, O.

be attached to opposite sides of the end posts of the crate. Patent No. 1,253,723.

A new egg-turning mechanism for incubators, devised by A. T. Pope, of Louisville, Kentucky, has transversely extending bars between which the eggs in each egg drawer are located, the eggs resting on the bottom of the egg drawers. When the frame is moved the eggs will be turned. The various rolling frames are connected by suitable rods so that all may be operated simultaneously. Patent No. 1,254,273.

A chicken exerciser and feeder of the automatic type, invented by W. H. Collins, of Summit, New Jersey, has a cylinder of wire mesh in which the bait grain is kept. The usual distributing cone is provided above this bait container. The feed distributing apparatus in the bottom of the main container includes a cup having bridged openings in the bottom, while the pendulum carrying the bait has attached to it a cup disposed above the bridged opening of the first mentioned cup, adapted to be separated therefrom sufficiently to permit of escape and distribution of the grain on the ground when the poultry peck at the bait in the small wire receptacle at the lower end of the pendulum which carries the distributing cone. Patent No. 1,253,002.

A simple trapnest has recently been invented by Lucius H. Bell, Fort Dodge, Iowa. It has an entrance door hinged to a treadle which is supported at the side distant from the entrance door. As the latter is pivotally supported by a rod attached to the nest frame, the weight of the hen on the treadle as she enters the nest will overbalance the open door and cause it to close. Patent No. 1,251,327.



Poultry Feeder and Drinking Fountain Combined, patented by George W. Beach, Saybrook, Connecticut. Patent No. 1,254,193.

A combined poultry feeder and drinking fountain has been patented by George W. Beach, of Saybrook, Connecticut, and Clayton von Culin, of New York City, joint inventors. The feed hopper encircles the drinking fountain. Both have circumferential troughs at the base of the trough, being separated into compartments for water and for grain. The feed in the hopper serves to protect the water tank which it encircles, from heat and cold, so as to maintain the water at a desirable temperature in midsummer or midwinter. Patent No. 1,254,193.

A simple heating system for drinking fountains, invented by John W. Campbell, Adams, Nebraska, includes an excavation shaped rectangularly, preferably to correspond with the shape of the base of the drinking fountain boards, closing the space between the sides of the fountain pan and the opening into the ground, in which the heating lamps are placed, and an air tube connected with one of the boards and extending into the excavation to supply air to the heater. Patent No. 1,251,338.

\$8.95 buys 140-Egg Champion Belle City Incubator

Prize Winning Model - Double Fibre



Board Case, Hot-Water, Copper Tank, Nursery, Self-Regulated Safety Lamp, Thermometer Holder, Egg Tester. With \$5.25 Hot-Water, Double Walled 140-Chick Brooder—both only \$12.95.

Freight Prepaid

East of Rockies—allowed towards Express and to points beyond. I ship quick from Buffalo, Minneapolis, Kansas City or Racine. Used by Uncle Sam and Agri' Colleges. With this Guaranteed Hatching Outfit and my Guide Book for setting up and operating you can make a big income.—And my

Special Offers

provide ways for you to make extra money. Save time—Order now, or write today for my Free Catalog, "Hatching Facts"—It tells all. Jim Rohan, Pres.

Belle City Incubator Co., Box 27, Racine, Wis.



Don't Feed Green Food!

Do away with the bother by using

Succulenta Tablets

They are better, cheaper and more relied upon all fowl. Simply dissolve one tablet in one quart of drinking water. Succulenta Tablets are not a drug nor a remedy, but a food—wholesome and harmless. They make chicks grow.

A FULL EGG BASKET IS ASSURED

100 large tablets by mail, \$0.50
250 " " " " 1.00
500 " " " " 1.75
1000 " " " " 3.00

Your Money Back If Not Satisfied

Write for particulars, giving your feed dealer's name.

SUCCULENTA CO., Box 405-1, NEWARK, N. J.

BROODER

For \$2.96, including heater, you can build the simplest, most efficient, and most satisfactory brooder ever made. Wind-proof; fire-proof; rat-proof; fool-proof. Can be built by anyone in an hour, with saw and hammer. Plans 10c.

\$2.96

I PUTNAM, Route 405 ELMIRA, N. Y.

Rogers' Money-Back Poultry Punch

Rogers' Money-Back Poultry Punch has proven to be the ideal punch for the fancier. It is without doubt, the handiest, neatest and most convenient punch upon the market. It punches the hole right—just the right size, and in the right place. Handle never in the way. Used by thousands of poultrymen. Beautifully nickel plated. 45¢; plain, 35¢ postpaid. Circular giving system of punch marking with every order.

T. W. ROGERS, Lamont, Iowa

Pearl Grit

EVERY HEN AN EGG FACTORY

They can't help laying when they get Pearl Grit. It chews the food in the gizzard, adds sulphur and carbohydrates for eggs, lime for shells. Free pamphlet—tells how to increase egg production, etc.

THE OHIO MARBLE CO. 74 Cleveland St., Plaquemine, O.

Natural Hen Incubator \$3

No freight to pay. Actual hen controls everything. No lamp, no costly mistakes. Best heater in the world. Over 850,000 in use.

J. M. Perla, Ill., writes: "It is the best thing I ever saw for hatching chicks."

Another: "I got 607 chicks from 640 untested eggs." Thousands of other testimonials. Agents Wanted.

To reach the million mark in 1918 we will send you a Special Introductory Offer with our Free Catalog.

Natural Hen Incubator Co., Sta. H, Dept. 4, Los Angeles, Cal.

When writing to advertisers, mention the American Poultry Journal.





A Bit of Experience.

I HAVE been interested in many experiences which have appeared in American Poultry Journal from time to time and as I recall some interesting personal experiences I thought others might like to hear of them.

In 1894, I was at home in Minnesota with my parents and there were hard times on the farm. I made three incubators and my mother and I raised 800 chickens. In the fall we dressed 200 of them and had to sell them for 4c a pound. In the spring of 1895 we got only 5c a dozen for eggs and the following June we could not sell them at any price, and father and I took the eggs by the wheelbarrow load and dumped them in the hog yard. That fall I took 2,000 lbs. of dressed pork to the city and received just 2 1/2c per pound for it.

In 1896 I went to North Dakota, working in the building trade, twelve hours a day for \$1.75. I am still in North Dakota and like it. I think it is the finest state in the Union. I am too old to go to the war, and all I can do is to buy some Liberty Bonds and raise poultry to help kill off the Prussians.

Up to 1887 I lived in France and am well acquainted thruout the districts where the Prussians are devastating one of the finest countries in the entire world. I remember seeing French poultry there in quantity, which I admired very much in my heart at that time. I feel very sorry for good, dear old France and her fine people.

No. Dakota.

Nickolas Thill.

Working Under Difficulties.

This has been the coldest winter on record here, the temperature going as low as fifty below zero. We have had no corn to feed our poultry until lately, when some soft, moldy stuff was shipped in and is selling for \$4.25 per hundred. Laying mash is \$3.85, bran \$2.75 and oats is to be \$3 for the next lot. One of our stores is selling a scratch feed for \$4.45 per hundred. Eggs are 60c (February 13) and I have managed to get nearly enough from the sale of eggs to pay for the grain the hens eat.

Now I have just been reading that we cannot sell any hens or pullets to market until May 1. No matter how hard we are getting stung, we have got to take it. Must be patriotic and raise chickens, the experts tell us. I think that we poultrymen are about the biggest fools in the country. Not being properly organized we take what is handed us, which is a very small mite. Isn't it preposterous to have a butter and egg packer representing us in the Food Administration at Washington? It is one thing to feed a lot of poultry and do the work and quite another to sit at a desk in a nice warm office and advise some one else what they have got to do.

Why doesn't the government compel the woollen and clothing manufacturers to sell their clothing at a loss? It looks very much to me as tho the whole thing is being run for the benefit of the grain and food pirates. I have a neighbor who has 700 hens and is going in the hole at the rate of \$5 a day. Where does he come out?

The day-old chick business is all done in this section of the country. Grain is too high, poultry products too cheap.

Maine.

Edwin C. Smith.

A City Lot Flock.

Buffalo is a great poultry, as well as a live stock market. Large shipments of live poultry from Ohio, Indiana, Illinois, Michigan, Pennsylvania, Canada, and Western New York can be found on this market at nearly all seasons of the year. While much of it is what may be called "culls" and so suitable only for slaughter, some crates arrive with birds showing good breeding and from which a selection of good laying stock can be made.

If I were so situated that I could keep poultry the year round I would have a strain of thorobred poultry, but as I am situated, I find it best to buy ten or twelve laying hens about April first each year. These usually are laying when I get them, or, if not, begin very soon. If I find any of them not inclined to lay I dress them for the table and buy others to take their place. This includes those which molt early and stop laying. In this way I always have good layers and no drones. My neighbors enjoy their singing and cackling in our yard and often send over table scraps, stale bread and the like for the poultry.

No male bird is kept in the flock. One of my neighbors said to me the other day, "You don't pretend to say that you get eggs without a rooster with your hens?" When I told him that the hens laid just as well without a rooster, he was somewhat surprised and said he never knew that before. He is a man over fifty years old.

A house 1x6 ft. with a runway 3x20 ft. keeps eight to ten hens for me from April to November or December and furnishes my family of four or five with fresh eggs during that time, as well as fifteen dozen extra from them, which we put down in water-glass for winter use.

The house is made of thin boards and the roof covered with three-ply roofing paper. It has roosts, place for feeding and laying and is about six feet high. Has an open front with canvas to drop at night if necessary. The house is not just suitable for extreme cold

weather, but for the eight or nine months which I use it for the hens it provides suitable protection for a small flock. All the birds are disposed of as cold weather comes on, but this year two White Plymouth Rock hens persisted in laying right up into zero weather and I sold them to a man who has a suitable place for winter layers.

I feed a light supply of scratch grain morning and night, more at night. I give them sprouted oats for green stuff and they get them at noon. They also are fond of lettuce. During the warm season I have a little bed of lettuce growing in different places for table use and the hens. The center of my lot is kept seeded for a croquet ground, but around the edge I grow some flowers, rhubarb, radishes, lettuce, swiss chard, beets, etc. A war garden is no comparison to the advantage of a few laying hens. I keep sifted coal ashes before the birds all the time. If I find a soft shell egg during the heavy laying period I give them a tablespoonful of ground bone in soft feed for three days and after this the same amount twice each week. This with plenty of crushed oyster shell and grit will put a stop to soft shelled eggs. The birds are always kept supplied with fresh water, oyster shell, grit and dry mash.

I have found nothing which will give as great returns in pleasure and profit as my back yard flock of laying hens.

New York.

Frank H. Britt.



BABY CHICKS
Single Comb White Leghorns

When you want honest value, the kind of chicks that will return your dollars many fold, think of

"IDYLVILD"

This name stands for honestly trapnested dyed-in-the-wool layers bred from stock purchased from the highest-record laying strains in the world. While their egg records are very high, this is not the only item to receive consideration. We also pay strict attention to vigor and type, and we feel safe in saying that nowhere in the world can you get more value for your money in baby chicks than from Idylwild Farm. Three hundred baby chicks of our strain are better than 600 from a haphazard breeding. Come here for your

FOUNDATION STOCK

and build upon a substantial base. Don't waste your time trying to make a profit with unproductive stock—it can't be done.

EGGS FOR HATCHING

We also sell eggs for hatching in case you do not want baby chicks. Our eggs, stock and chicks are securely packed in the best method and will reach your safely. We guarantee 90 percent fertility on our hatching eggs.

Send for our handsome catalog and mating list.

IDYLVILD FARM W. S. POORE, Prop. SHERIDAN, ILLINOIS

BABY CHIX

:: STOCK ::

R. I. REDS BARRED ROCKS SILVER LACED WYANDOTTES
POORMAN STRAIN TARBOX STRAIN

My stock is all of good type and size, and the fact that it is from the above well known strains speaks for itself. Their utility qualities are highly developed and I know of no place where you can get as good value for your money.

PRICES OF BABY CHICKS		Six-Week Old Chicks—May Delivery	
100 Chicks, either variety	\$18.00	Broilers from farm flock Plymouth	Per 100..... 65c each
50 " " "	9.50	Rocks, slightly mixed, and the odds	Per 50..... 70c each
25 " " "	5.00	and ends of the good ones, \$14 per	Less numbers..... 75c each
		100, \$7.25 per 50, \$3.75 per 25.	

W. RHODES I also handle Incubators, Brooders and Supplies **DAKOTA, ILL.**



COCKERELS
 WINNERS OF EVERY
 PRIZE OFFERED
 AT
 MADISON SQUARE
 GARDEN
 NEW YORK 1918
 1st. 2nd. 3rd. 4th. 5th
 AND
 SWEEPSTAKE CHAMPION
 MALE
 AND EVERY SPECIAL
 OWNED, BRED AND
 EXHIBITED
 BY



E. B. Thompson **Amenia, N.Y.**

Race Horse Games.

Not long ago I read a suggestion in American Poultry Journal that it would be a good idea for breeders and lovers of poultry to write more of their favorites. I am fifteen years old and have been interested in poultry for five years. I have been breeding White Plymouth Rocks and have received a great deal of help from your magazine. Have had it for three years. I have not seen much in print about the Race Horse Games. I am interested in them.

Race Horse Games as utility fowl sounds ridiculous, but never-the-less they have proved themselves worthy of the title. I have given them a thoro tryout. The hens are first-class layers. When properly bred they weigh the same as the Leghorn. They closely resemble the Brown Leghorn. They are seldom troubled by hawks or crows, as they so closely resemble the ground they are difficult to see from a distance. If the chicks are attacked by hawks, the mother is a real fighter and well able to protect her young.

The fault found with the Race Horse Game is that they will fly over fences and scratch out the neighbors vegetables and flowers. The way to remedy this is to supply them with what they need and keep them contented in their own yards. The contented hen is always the laying hen. I have a pullet of this variety which layed 23 eggs during the month of January, which I consider good laying. Some object to this variety because the male birds are apt to fight a good part of the time and kill one another. I agree that the Game is the greatest "scrapper" in poultrydom, but I find that the males do not bother each other much except during the breeding season and other varieties will do the same unless they are kept separated. There is no breed more hardy and they are always down-right hard workers. They are off the roost early and work until dark. The females certainly pay their board bill by laying eggs when eggs are high. They are also plump and neat in appearance when dressed.

Kansas. Richard C. Wilson.

Plea for Effective Organization.

We fear very much the disastrous effect which the recent ruling, prohibiting selling of hens and pullets to market, by the Food Administration, will have upon the poultry industry and we think that some concerted effort should be made to obtain some kind of assurance from the Food Administration that their policy of persecution is at an end, and that the poultrymen are free to do what they can to get the industry back on its feet. We also think that it would be altogether fitting and proper that the representative of poultry interests on the Food Board should be a producer and trust that something can be done to this end.

Incidentally it seems that that great organization, the American Poultry Association, has been fiddling while Rome burned, and while they have been quibbling over "down between the toes" and "under barring" the industry has suffered thru meddlesome interference. We cannot recall anything that has been done by them that is in any way benefitting the industry—the only thing we recall is plans for a knockdown poultry house.

There has been considerable change of heart among poultrymen in this section of the country, and we hear less and less about the wonderful profits that are being made. And we have been advised by Helen Dow Whitaker, the Superintendent of the All Northwest Laying Contest, that "the word profit does not appear in their report." Which is a step in the right direction—only the horse has already been stolen.

Now that the industry has been reduced to the irreducible minimum, would it not be possible to start the growth sure to come in time, along the right lines, and get away from the charlatanism of the past which has been responsible for so many, many failures in this business? It seems that this part of the country from the standpoint of the poultry industry is in the same boat as is Russia.

Incidentally the ruling prohibiting the killing of hens and pullets having already come into effect, we wonder if they will succeed in making the ruling force the hens to lay. Patriotic American people accept wheat and coal orders without undue remonstrance, but we think the powers that be are reckoning without their host when they try to save the industry by passing rules affecting the American hen, which knows neither patriotism nor loyalty. Perhaps after all the poultrymen have been wrong in trying to cajole the hen to work, and it may be that stern measures will bring about better results. As we have said before, time will tell, but we wonder if the aforesaid powers will assume the responsibility for what happens. It has been pointed out that the poultry industry will win the war, whether this could be so or not we do not know, but if it is

Hatching Eggs

from the finest matings in America. Write for our prices and particulars.

**"Homestead"
The Vigorous Strain
Campines**

Dominate in the World of Campines.

Following are some of the winnings at the world's greatest shows this season:

At the last Madison Square Garden Show

Dec. 28 to Jan 1, we won: 1st 2d, 3d cockerel; 1st, 2d, 3d pullet; 1st, 3d, 4th pen; 3d, 4th, 5th cock; 2d, 3d hen; 1st Display which gave us the Silver Challenge Cup offered by the American Campine Club, winning it outright, having won twice in succession at the Club Show. This cup has been up for five years.

At the Boston Show

Jan. 14-18, 1918, we won: 1st, 2d cock; 1st, 2d hen; 1st, 2d, 3d, 4th cockerel; 1st, 2d, 3d, 4th pullet; 1st, 2d pen; First Display.

At the New York State Fair

Sept. 10-15, 1917, we won: 1st, 2d cock; 1st, 4th hen, 2d, 3d, 4th cockerel; 1st, 2d, 3d pullet; 1st, 2d pen; 1st display. How's that!

Send for our price list today and make your selections of hatching eggs from these grand birds. Book your order early and avoid disappointment.

**HOMESTEAD CAMPINE FARM
BOX A, WAYLAND, MASS.**



First Cock, Boston, 1918

Our beautifully illustrated booklet gives a very interesting history of this remarkable breed. Price fifteen cents—send today.



First Hen, Boston, 1918



	Lots of 25	Lots of 50	Lots of 100	Lots of 500
R. and S. C. R. I. Reds	\$3.75	\$7.25	\$14.00	\$70.00
Barred Rocks (The Real Kinglets)	3.75	7.25	14.00	70.00
White Rocks	4.25	8.25	16.00	80.00
White Wyandottes	4.25	8.25	16.00	80.00
S. C. White Leghorns	3.50	6.75	13.00	65.00
S. C. Brown Leghorns	3.25	6.25	12.00	60.00

Prices for April and May Delivery

We also have other popular breeds. Write for our catalog today. It tells about our varieties, our manner of doing business, tells how to care for baby chicks, etc. Remember, our breeding stock is of good quality and contains many prize winners.

If interested in brooders, ask for our combination offer. THORNWOOD POULTRY YARDS AND HATCHERIES, Dept. 123, CRANDALL, INDIANA

HOUSTONIA

RED SUSSEX

"The Colder the Day The Better They Lay"



LIGHT SUSSEX

A Truly All-Purpose Fowl, Utility Plus Beauty

EGGS For Hatching EGGS

From winners at America's Greatest Exhibitions \$10 per 15
From leaders at American Egg Laying Contest 3 per 15

We cannot hope to meet the demands on our matings this season and urge you to book your order at once. Descriptive price list now ready.
HOUSTONIA POULTRY FARM Dept. A SOUTH CHARLESTON, OHIO



FUNK EGG FARM

Pedigreed Birds From 250-288 Egg Hens

Annual Importations of

Tom Barron S. C. W. Leghorns

keep my high record stock at the highest pinnacle of production. I am the largest importer of Tom Barron S. C. W. Leghorns in America, and the large number of re-orders I get from old customers is proof that my stock gives satisfaction.

HATCHING EGGS AND BABY CHIX

from my correctly mated pens will produce profitable results.

Hatching Eggs, \$3.00 for 15 eggs and up

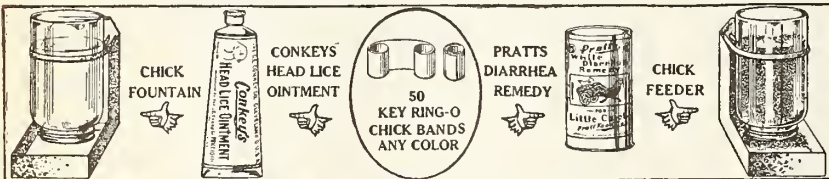
Chicks, \$22.50 per 100 and up

Breeding Stock, \$3.00 per bird and up

My free 1918 illustrated catalog will interest you. It gives description and prices of the highest bred utility matings in America. Satisfaction guaranteed or money back.

FUNK EGG FARM LYLE W. FUNK, Prop. BLOOMINGTON, ILL.
Box A

The 1918 CHICK-ECONOMY COMBINATION



- 1 Chick Feeder (without jar) 15c
 - 1 Chick Fountain (without jar) 15c
 - Head Lice Ointment . . . 15c
 - White Diarrhea Remedy . . . 30c
 - 50 New Coil Leg Bands . . . 50c
 - 50 Key-Ring-O Bands . . . 50c
- Value . . . \$1.75
Our Advertising Offer . . . 1.22
You save 30% or . . . 53c

Every year we get out a Key-Ring-O Combination to advertise and introduce this celebrated leg band. This year's offer is one for safety and economy. You must raise your chicks this year safely and economically. For safety we include a regular 15c tube of Conkey's Head Lice Ointment and a regular 30c package of Pratt's White Diarrhea Remedy. Then you get a Drinking Fountain and a Chick Feeder—the latest style out, and a good one. Then we include 50 New Coil Chick Bands that will last for years and enable you to mark each chick easily and quickly. And then in addition to the above you get a coupon that we will exchange (after you know just what colors and size you want) for 50 of the celebrated Key-Ring-O Leg Bands any size or color.

Surely you will agree that this year's KEY-RING-O COMBINATION gives you SAFETY and ECONOMY when we tell you that the entire outfit will be mailed postage paid for only \$1.22 and if you can duplicate this combination elsewhere for \$1.75, you may return it to us and we will immediately return your money, together with all postage you have paid. Isn't that fair? This is our method of advertising and you get the standard line of goods at our expense. However, we reserve the right to return money when our supply is sold out. Last year we returned 2527 orders that came too late.

C. H. GORDINIER, Dept. J, TROY, N. Y.

RILEY'S WHITE WYANDOTTES

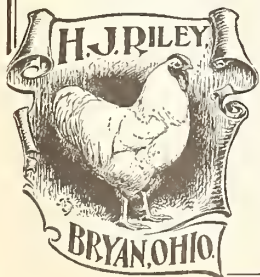
Won Best Display at the Chicago Coliseum Poultry Show, Dec. 1916

This, added to my record of six firsts, three seconds, two thirds at the Ohio State Fair the year before, proves their quality as breeders. They are bred-to-lay with the same care they are bred to win.

My 1918 Matings

are better and stronger than ever before. They include my 1st and 2nd cocks, 1st pen cockerel, 2nd pen cock at Chicago and my other winning males and females. Will sell you eggs from every pen I own. Eggs for hatching, \$3, \$5 and \$10 per 15. From \$5 and \$10 matings I guarantee 100 percent fertility, a chick in every egg, replacing every infertile egg returned to me. Some strong, sturdy, selected cockerels, exceptional quality for the price at \$5, \$7.50 and \$10. Write your wants and for catalog; it will pay you.

H. J. RILEY Box A BRYAN, OHIO



true, then we are a long way from victory and going further.

We do not doubt that some efficiency expert posing as a poultryman had something to do with getting this thru, as really it seems that some who should know better have a leaning this way.

While it may not be possible to sell off hens and pullets before the last of April as the order now stands, but tell me what is to prevent the man who is up against it from hypothecating his stock, and then when the time is up selling them to satisfy indebtedness. And those who would have to move old stock to make room for chicks, what will they do? For instance, the brooder house we used last year contains several hundred pullets. If we depend upon this building for this purpose, it will be impossible for us to hatch anything for our own use till in May. A neighbor who has to sell off some stock (death taking away the two members of the family who took care of the poultry) is between the deep sea and the iron works.

I am sure it would not require much imagination to call up all the instances where it will absolutely prevent rearing an adequate amount of young stock and thousands of cases more where they fear to take a chance of raising a lot of stock, for should crops be poor this year, prices would be prohibitive for feeding grains, and what, pray, would prevent "Jack-in-the-office" from clapping on another ruling to "save the industry?"

Incidentally the day the ruling went into effect, we had a letter from W. F. Priebe of the Food Administration, wherein he closed with this sentence: "Please bear in mind that we realize the trouble of the poultry and egg producers and we are doing everything possible to encourage this industry."

Needless to say we are unable to reconcile words with deeds!

Washington,

E. R. Johnson.

Drop in Egg Prices.

It should be apparent to anyone that the tremendous drop in egg prices is not the result of over-production but of clever manipulation by the packing interests. The receipts of eggs in leading markets shows a shortage of eggs. The prices of feeding grains continue to go up in price. It looks as tho "our representative" on the food administration who is serving our interests (?) for the princely salary of \$1 per year, while drawing \$10,000 or more annually from the packing interests, is working for the interests which pay him the better salary.

Many regrets have been expressed that the poultry producers of the nation have no organization to back them in bringing about a change in the present chaotic condition of affairs. But we need not worry over a lack of organization, for at any time like this each producer is a power which no combination of interests can control or overthrow. While we are gladly giving our sons and freely giving of our stores to "make the world safe for Democracy," let us not be slow to demand a full measure of true Democracy at home and the consequent removal from the Food Administration of the packing house representatives. Our Milk Producers' Association has just been told that we should be glad to produce milk and sell it below production cost at this time, but in the face of the packing interests controlling the Food Administration for private gain this suggestion will not be responded to with enthusiasm.

We are all ready and willing to help feed the world and shoulder our full share of the world's burdens, but we ask in all fairness that the administration of food be removed from the control of the profiteers, who are even now working overtime to cover over their tremendous profits by an increase of capitalization.

This is a time when all the players should be required to place all their cards on the table in plain sight.

Maryland.

S. P. Brown.

Gardner, Ill., March 7, 1918.

American Poultry Journal:

Your paper certainly gets the business. The two small ads I have carried in your paper for the last four months have got me inquiries from nearly every state in the Union. I have sold all my surplus stock and could have sold a lot more, for the Dark Cornish and Mottled Houdans are in great demand.

Yours very truly,

L. MADSEN.

RAISE RABBITS Regular meat machines. OUR BOOK BELGIAN HARE GUIDE Tells all about them. Over 75000 copies sold. Price 25c. Free sample copy of our paper goes with BOOK. Address INLAND POULTRY JOURNAL, 205 Cord Bldg., Indianapolis, Indiana.

THE HOME FLOCK.

By CHARLES J. FISK,
Vice-President American Poultry Assn.

THE keeping of a small home flock of laying hens by every family living in a suburban town or village or having a small back-yard in connection with a city home will do more to help provide food necessary to maintain our men in the army and feed the people at home than can be accomplished by any other means. At the same time it is a practical way of reducing home expenses and regulating the cost of living.

The size of the flock should be regulated by the number of persons in the family to be fed and the amount of table scraps, kitchen and garden waste (that otherwise would be thrown away) which can be used for feed. From two to three hens for each person in the household should keep a family supplied with all the fresh eggs they require.

THE SPACE REQUIRED IS VERY SMALL.

A house with a floor space 8 feet by 8 feet in connection with a yard 20 feet by 25 feet will be about what is required for a flock of 20 hens. In other words, about three square feet floor house space and 25 square feet yard space for each hen. In cases where yard space is not available, small flocks, have been successfully taken care of in a house allowing 10 square feet of floor space to each hen—say a house 8x16 ft. or 10x12 ft. could be used for a flock of 10 to 12 hens—where they are to be kept confined at all times to the house. A number of manufacturers now make portable houses especially adapted for the above purposes at very reasonable prices, which can be put together by the purchaser very easily without the need of a mechanic.

Houses can also be very simply constructed at home. Description, plans and directions can be obtained free by writing the Bureau of Animal Industry, U. S. Department of Agriculture, at Washington, for Farmers' Bulletin No. 889 "Back-yard Poultry Keeping."

A home flock of hens is a small number kept by each householder practically to produce eggs for home consumption. The time to start keeping such a flock is in the late summer or early fall. The birds should be strong, vigorous, well grown matured pullets from chicks that were hatched early in the spring. For the best results they should be one of the Standardbred varieties, from a good heavy laying strain that have been raised on an open range and kept constantly growing from the start. The best way to procure such birds is to order now from responsible breeders and have them raised especially for you.

Unless a person has had some previous experience in breeding and raising chicks it is not advisable for the amateur to start by trying to raise the baby chicks. Chicks should be raised in the country on farms — where they have plenty of place to range and grow in the natural way—not in a confined space. The variety or breed best adapted for the "home flock" depends very much on conditions and location. For many reasons what are known as American and English general purpose breeds are preferable, such as the Plymouth Rocks, Rhode Island Red, Wyandottes, Sussex, Orpingtons, etc., these are more easily confined and kept within bounds. They

Baby Chicks



Graduation Day at Uhl's

50,000 Baby Chicks are graduated from our HATCHERY every week

They go out to face their battle with the world, backed up by the strongest constitutional vigor and the best breeding. Many of them make their mark — see the testimonial below. They are from 18 varieties of

Rocks, Leghorns, Wyandottes, Reds, Orpingtons, Anconas, Minorcas, Spanish, Brahmas

We receive hundreds of reports stating how well pleased our customers are with the fine quality and laying ability of the birds they raised from our chicks.

THIS IS OUR 18TH YEAR

M. Uhl & Co.

*From the fifty baby chicks bought from you, I won seven prizes and a handsome silver loving cup for best display on an entry of thirteen of your birds; 2d and 3d cockerel; 2d, 3d and 4th pullet; cockerel 2d pen and four pullets 3d pen. I am highly pleased to recommend your concern for this high quality and the fairness shown me. Respectfully yours,
P. M. Griffin, Ft. Wayne, Ind.*

of successful hatching, and if you want the best there is in baby chicks for show or utility, we can supply you at the most reasonable prices.

Write at once for catalog

M. UHL & CO.

Box A NEW WASHINGTON, O.

SHIP YOUR

EGGS WHITE OR BROWN EGGS

net, no commission; returns day of arrival.

All reasonable drafts honored, to

ALEX MERSEL

191 Duane St., New York

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United States Food Administration
License No. G-07408

Jacobs' S. C. White Orpingtons

Winners at Indiana State Fair, Chicago Coliseum and Indianapolis.
Eggs! Eggs! Eggs! That are guaranteed to hatch. - - - - - Send for free illustrated mating list.
Frank W. Jacobs - 2027 W. Nichol Ave. - Anderson, Indiana

Premier Partridge Wyandottes and Rouen Ducks DISTINCTIVELY INDIVIDUAL

EGGS FOR HATCHING AND BABY CHICKS

FROM AMERICA'S PROVEN CHAMPIONS

EGGS		BABY CHICKS	
\$10.00	per 15	\$ 1.00	each
\$25.00	per 45	\$10.00	per dozen

Did you receive our 1918 mating list? If not, write for it.

We also breed a fancy line of Rufus Red Belgian Hares, bred from imported stock. Choice youngsters for sale. Write for prices.

SHEFFIELD FARM H. B. Hark, Mgr. GLENDALE, OHIO



BEST DISPLAY AT THE CHICAGO COLISEUM SHOW, on Rose Comb Reds

has been won for

Five Successive Years by Longfield REDS

A record, to the best of our knowledge, never duplicated by any R. C. Red breeder at any National Show. Twenty of the first premiums at this great Red show in the last seven years have been won by us. Another record, LONGFIELD REDS, the strain that comes back and wins year after year where the competition is strongest.

Write for catalog giving winnings in detail and our interesting guarantee of 15 chicks from each setting of our best eggs.

Longfield Poultry Farm, Box 321 Bluffton, Ind.



PURITAN POULTRY FARM Single Comb White LEGHORNS

The kind that lay at 4 to 4½ months of age, bred exclusively by us for the last 18 years on the largest poultry farm in S. E. Ohio. We are selling

Baby Chicks and Eggs

from 200-egg record pens, all from our own nests, standard-bred stock, the same as we use in our own flocks, at very reasonable rates. We have

bred for years for heavy egg-production, and our birds have heavy laying ability bred in the bone. A limited amount of breeding stock for sale. Send for our literature. We guarantee to please.

PURITAN POULTRY FARM - Newark Road - ZANESVILLE, OHIO

S.C. White LEGHORN EGGS

FROM McCORMICK POULTRY YARDS COFFEYTON, MO.

From Heavy Laying, Range Raised Hens

For 11 years on our farm we have bred for production alone. Every hen that we have mated for this year's setting egg business has been bred on our farm. Every one is 3 years old. Every one a 200-egg a year hen in her pullet year. Every one mated to cockerels of our own breeding that possess the heavy-laying ancestry. EGGS, f. o. b. our station, \$7.50 per 100; \$3.00 per 30. Our sales of table eggs from our farm during 1917, in St. Louis alone exceeded 12,000 dozen.

McCORMICK POULTRY YARDS - COFFEYTON, MO.

Rose QUALITY R. I. REDS Single

At the late Cleveland Show, with 30 head shown, 29 were under the ribbons. My 1st prize and color special Rose Comb cockerel was pronounced by the judge a wonder; one brilliant even shade of red, splendid markings; head and comb can't be beat. Every female in my 5 best pens of each Rose and Single Combs has a dark, glossy hackle, mated with males of a dark, even velvety red, and chuck full of quality. Eggs from best matings, \$5 and \$10 a setting. Other good matings, \$8.00 per 100. B. M. BILLINGS, Box A, Elyria, Ohio



Everlay Br. Leghorns

Opportunity knocks! Don't be deceived in the contents of an egg because it is cheap. Disappointment is sure to follow. Place your order for EVERLAY eggs now. America's greatest winning-laying strain. Madison Square Garden record never equalled. Laying ability unquestioned. Eggs from special matings or bred to lay flock priced reasonable and shipped safely anywhere. Catalog. H. V. TORMOHLEN, Box 2, Portland, Indiana

lay a large rich brown shelled egg. If white shelled eggs are more desired, the Mediterranean breeds, Leghorns, Anconas, Campines, etc., these, however, will require yards or runways to be covered, otherwise they will fly out and become troublesome.

WHAT IS THE REASON AT THIS TIME FOR RECOMMENDING AND URGING THE KEEPING OF A "HOME FLOCK" OF HENS?

This is a most natural question and most easily answered.

The United States is now involved in the greatest war for freedom and liberty the world has ever known. The war will and must be won. There is no compromise and no going back. The future peace and prosperity of all nations on the globe depend on the outcome—the final victory. Hundreds of thousands, yes, millions of our growing and best young men and also women will be called upon to go to the front, giving up their families, their business, their very life for this great cause. Some are already on the fighting line, others in camps both here and on the other side—preparing. Not only this great army, but the armies of our Allies must be fed. The United States must furnish the greater amount of food required. Every pound of beef, mutton, pork, wheat, and many other commodities must be reserved for this purpose. Those of us at home that cannot go—for reason of health, age, or any other just cause—must not only do our bit, but our all, to win. The United States Food Administration asks us to substitute poultry and poultry products to as large extent as possible—to take the place of the other food that is so much needed. In order to do this, the amount of poultry raised must be increased—not only doubled, but trebled or quadrupled, the larger the amount the better. Chicken can be matured in five to six months—cattle, hogs, sheep, etc., take much longer. Everyone that has 20 feet square of yard space can keep chickens to advantage. Everyone should.

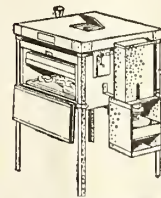
IT IS A PATRIOTIC DUTY.

Every farmer and poultry breeder should hatch and raise every chicken possible. Write the United States Department of Agriculture or your State Agricultural College for instructions and methods of back-yard poultry keeping.

Be a patriot—order your flock at once and make your preparations to care for them.

Poultry can and will help win the war.

"P" stands for Poultry, Patriotism, Pleasure, Profit.



103 DEGREE INCUBATOR

The Sensation of the Incubator World. Contains the only real improvements made in incubators in ten years. Chicken fanciers and university experts enthusiastic over its

Wonderful Automatic Heat Control that insures Even, Steady

Heat throughout the Hatch without aid of human regulation.

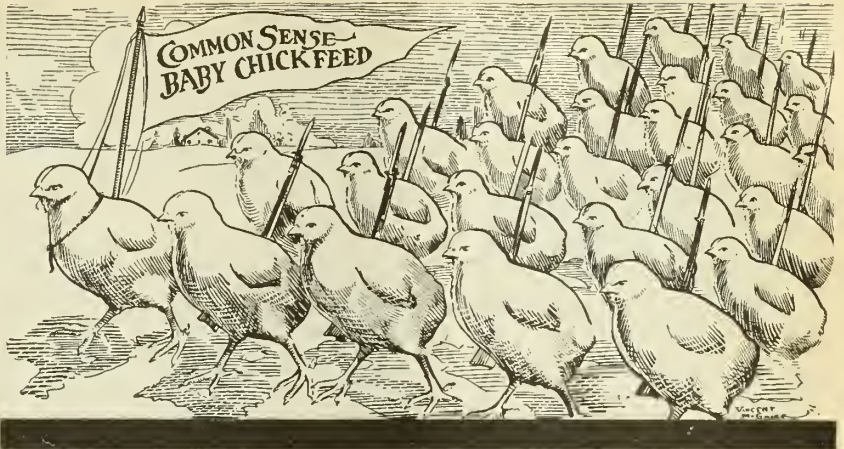
Write quick for complete details of the greatest incubator value on the American market. No regulating—no worry—no roasted eggs—no chilled eggs—100 per cent efficiency. Four popular sizes. U. S. patented.

30 DAYS FREE TRIAL 103 Degree Incubator Company
20 East St. Crown Point, Indiana.

FROM BOSTON TO A POULTRY FARM.

By EMORY H. BARTLETT, Enfield, Mass.

I WAS living in Boston, Mass., up to 1908, when I took my grandfather's farm of 200 acres and started with poultry. Had always spent my school vacations on the farm, as well as the college vacations, so had learned to love nature. The freedom of life in the country is not a reality until you try it. Mine may not be exactly a specialty farm, as I have egg-bred S. C. White Leghorns, apple orchards and am starting a Holstein dairy herd. I think in war times it is well not to have your eggs all in one basket, and as long as you don't neglect your birds, everything works together. Last year I raised thirteen acres of Sanford White Flint corn, Rhode Island strain, and, believe me, my little Italians have appreciated it this winter. I bred White Plymouth Rocks first and they were good birds, but one year I was obliged to leave home, for three weeks, when I should have been starting my incubators, and the thought came to me, Why not raise some Leghorns this year? They will mature in time for November layers and the Rocks won't, at this late date, so I ordered eggs from two prominent breeders, got a good hatch, and have never had any reason to regret starting with them. I had used trap-nests to some extent with Rocks, so started with trapping the Leghorns, and the next year I trapped my breeders and pedigreed the chicks. It is very interesting and in no other way can you learn as many things as the trapnest teaches you. You learn to select the birds that can and do produce their own equals or better, and use that blood to increase flock average. To be sure, it takes time that not every man can give to the work, and might in my own case, were it not that my mother is the trapnest artist and skilled in her profession, a lover of good birds and an expert raiser of baby chicks, which means everything to me. We start our chicks on sour milk, which is the best food I have ever used. Give them all they can eat the first two days. I give no water until the third day and



A Healthy Army of Baby Chicks — that's what we need this spring

Chicks with perfect digestion—all around sound health—that flourish instead of flounder in those first six weeks.

We need them to meet the demand of "Poultry—more poultry" which the nation is making.

COMMON SENSE BABY CHICK and Developing Feed

—is not only a nourishing, balanced ration—but it a **health creating** feed—clean, fresh, sweet—every fraction of every grain of it! It has been **tried** and **proved**. On the Walter E. Flanders farm, where the largest flock of S. C. White Leghorns in the world is bred—you'll find **COMMON**

SENSE FEED is the every day diet.

We guarantee better results with it. If you don't get them we buy back the feed you have left and pay freight charges **both ways**.

Send in your order now—and guarantee yourself a lower mortality rate among your chicks this year.

The **FAMABELLA COMPANY, Inc.**

Dept. 4 - - 1107 Grand River Avenue, DETROIT, MICH.

Manufacturers of the famous Common Sense Scratch Feed and Egg Mash.

My Silver Campines Again Champions!

at the COLISEUM, CHICAGO, Dec. 4-9, '17

I won the Sweepstakes Championship for the 5th successive time

Cocks	Hens	Cockerels	Pullets	Old Pen	Young Pen
1 2 3	1 2 3	2	1 2 3 4 5	1 2	1

40 males placed at the Coliseum Show during the last four years.
104 females placed at the Coliseum Show during the last four years.

NOW GET THIS: The breeder who has only five, ten or fifteen exceptional Campines is not going to supply many customers with hatching eggs from prize-winning fowls. But when a breeder has literally **Scores** and **Scores** of **Big Show Winners**, as I have, the customer is pretty certain to get what he pays for in the way of hatching eggs and day-old chicks. Isn't this reasonable?

HATCHING EGGS from the finest exhibition Silver Campine matings:

Per Sitting of 15 eggs.....\$10
Three Sittings for.....25
One hundred eggs for.....50

HATCHING EGGS from other pens headed by Coliseum winners, but not Bl. Ribbon males:

Per Sitting of 15 eggs.....\$ 5.00
Three Sittings for.....12.50
One hundred eggs for.....25.00

Write me today for information.

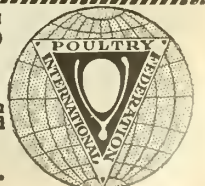
FRANK E. HERING Desk B SOUTH BEND, INDIANA

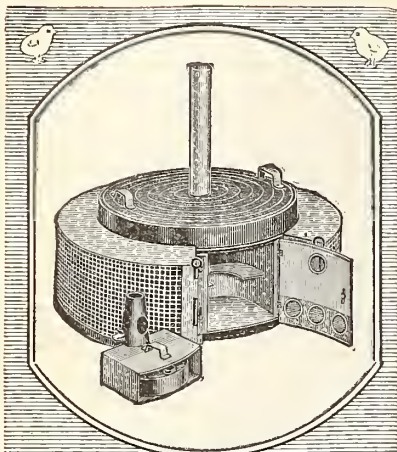
BUY FROM BONDED BREEDERS

Our \$100.00 Surety Bond Backs Every Purchase You Make

Buy that cockerel, pullet or pen, those eggs or baby chicks, from a "Bonded Breeder" and rest assured you will receive 100 cents in value for every dollar you spend. Tell us what you want in ANY VARIETY, and we will tell you where you can get it from a "Bonded Breeder." Address

International Poultry Federation, Topeka, Kansas, U. S. A.





This Economy Brooder Hover Is Guaranteed To Satisfy You

You'll like this Oakes Brooder Hover

It's made of light, strong, durable steel and will stand anywhere you want it; no special platform or false floor necessary. It is complete in itself and takes but a small flame to give plenty of heat for the good of your chicks.

Made in two sizes \$6.00 and \$9.00; wire cage \$2.50 extra.

Send for Complete Catalogue of Poultry Necessities.

The Oakes Mfg. Co.
335 Dearborn Street
Tipton, Indiana

Incubator and Brooder Supplies, Fixtures and Repairs. All metal parts for making new machines or repair old ones.

Eastern Branch, 303 Pearl Street, New York.

they have learned to like the milk, so that they are always crazy for it. After this I use commercial chick feed, feeding carefully, five times a day. Of course I give them grit, fine oyster shell and charcoal all the time. After they are old enough to take wheat and fine cracked corn, equal parts, that has always been my feed, with soaked oats once a day. Just what it will be this year, minus wheat, no one can tell, but we will be able to get something to take the place of our good wheat, as long as it is needed by our boys "over there." I do not trapnest my entire flock, as one house, near our dwelling house, will only house 125 birds, and this furnishes me with the necessary breeding birds and some to spare, as I keep all my exceptionally good producers as long as I can. Have four year-old hens in every pen but one this year. Last year I had twenty-eight birds, out of 119 trapped, that laid over 200 eggs, 279 being the highest record. The best record hen I have ever trapped laid 288 eggs from November 16 to November 15, and 307



First Buttercup pullet at Chicago Coliseum, December, 1917, and first at Greater Chicago Show, January, 1918. Owned by O. B. Disenroth, Lawrence, Mich.

up to December 14, when she stopped laying. This bird grew most of her new coat while laying. She was the daughter of a July hatched chick, who laid 233 eggs after January 6. This was a partial record, as she was in one of my laying houses; on that date I noticed her and picked her off the nest to see what she was made of. She was very wide between the pelvic bones, had extreme distance between the pelvic bones and keel, with that soft fine skin that is characteristic of the heavy layer. Twelve of her daughters that I trapped last year averaged 224 7/12 eggs. This was when she was mated to a high record male, sire's dam 287 eggs. She was exhibition type, a beautiful head, long body, low tail, well spread and no break at base of tail, a blood-red eye, and yellow shanks, which proved to me that beauty and utility could be combined. I made an interesting trade recently, when I exchanged six cockerels and two hundred eggs for hatching for an A. R. O. four months old bull calf, a son of a \$15,000 bull and grandson of King Segis Pontiac Alcartra, the famous \$50,000 bull. So you see even chickens can be used to advantage in a general farming plan. I wanted a herd sire and my customer wanted my birds and came to buy, with no idea I wanted anything he had to sell. This may be digressing, in a way, from poultry, but not as poultry keeping includes general farming. Possibly

THE PARCEL POST BAG CO
MANUFACTURERS OF
EGG CARRIERS—LAUNDRY CASES.
SOUTH BEND, INDIANA.

Mr. Poultryman:
Dear Sir:

We have had a number of inquiries from purchasers of our Parcel Post Egg Carriers asking where eggs may be purchased. We will in the future please in each case send a list of poultrymen and farmers who desire to sell eggs direct to the consumer by using the Parcel Post Service.

WE WANT YOUR NAME ON THESE LISTS. The trade going to you in this way will be from the best class of reliable buyers who will gladly pay the mailing charges both ways and from 10% to 25% MORE THAN YOUR LOCAL MARKET PRICE for fresh eggs.

Placing your name on these lists does not place you under obligations to sell, though by doing so you will have an opportunity to establish a trade with reliable people who will pay you well for the large trouble in packing these cases.

THE MONEY FOR YOUR EGGS WILL COME WITH THE CASE unless you and your customers make other arrangements or payments. No matter where you live if you have a dozen or more eggs for sale each week just send us a postal stating about how many you can sell per week and we can soon locate a steady reliable customer for you. THIS SERVICE IS FREE TO YOU.

Yours very truly
P. S. Write for P. Post Egg Carrier Circular. PARCEL POST BAG CO.

The Laying Type EGGS
\$2 for 15
\$9 for 100

Fernwood Leghorns

are pure white, long-backed, wedge-shaped and vigorous birds with a natural egg laying capacity which has been increased by proper care and breeding. The exact kind of poultry Uncle Sam is asking you to keep. Send a postal for circular. Low prices on stock.

FERNWOOD WHITE LEGHORN YARDS
712-714 West 103rd Street, Chicago, Ill.

We Won
at the
Great Chicago Coliseum Show
on
Single Comb Black Minorcas
December, 1917

which is the country's largest National Show, and probably the strongest Black Minorca National Show cared. Breeds for winning, laying, weighing and paying. Free mating list tells you more. Eggs for sale from the best matings we ever put together.

ROYAL POULTRY FARM
OSSIAN Box 500 INDIANA

LAKENVELDERS



The best layers and the most beautiful fowl in the world.

Eggs and Stock for sale

Send stamp for circular

Ralph C. Greene
Sayville New York
Suffolk County

Celluloid Bands

Prices Moderate. Wholesale and Retail. Samples Free.
FRANK CROSS
Manufacturer
BOX 506, MONTAGUE, MASS

Pocket Money Poultry

A book full of facts about poultry. Write today for a copy of this great book, price **25c**
AMERICAN POULTRY JOURNAL PUB. CO.
542 South Dearborn Street Chicago, Illinois
Mention the American Poultry Journal when writing to advertisers.



APRIL IS THE BEST MONTH FOR HATCHING CHICKS

Our pen which won the first place medal for NOVEMBER at the North American contest, laying 45 per cent, was hatched in April and early May. We breed hens for egg-type as dairymen breed cows for milk. Our S. C. White

LEGHORNS

are true egg machines. Pen "A" headed by son of 314-egg hen; Pen "B" by grandsons. Hatching eggs LEGHORNS or REBS—Pen A, hens 250 to 280 egg-type, \$5 for 15, \$25 for 100. Pen B, hens 200 to 250 egg-type, \$3 for 15, \$15 for 100. Pen C, hens 150 to 200-egg-type, \$10 for 100. BABY CHICK prices on request. The best is the cheapest. CATALOG.

HOPEWELL FARMS Box 161-J, HOPEWELL, N. J.



PAINT ROOSTS AND HEN HOUSES



with the highly recommended "CARBOLINEUM" (made in U.S.A.) ONCE A YEAR and you have no MITES to fight. Guaranteed. Write **WIDE CARBOLINEUM U.S.A.** Wood Preserving Company, Dept. 58 MILWAUKEE, WIS.

60 BREEDS chickens, ducks, geese, turkeys, guineas, Collie and Fox terrier puppies. Hatching eggs and stock my specialty. Large illustrated catalog free. Yours is ready. Write for it today. Edwin A. Souder, Telford, Pa.

it may be an incentive to other farmers to raise more and better poultry (accent the word *better*). At the present time it is not much use to tell anyone what your system of feeding is, as you never can tell what a car will unload in shape of grain. All I can say is that I try to feed a ration as well balanced as possible, with plenty of mangel beets, turnips or cabbage for green feed. Give them plenty of fresh water, with grit, shells and charcoal, a good scratch litter to work in and an egg-bred Leghorn will pay you a good profit. There is a good living to be made from poultry alone, if one is not situated so that he wishes to carry on general farming. The only thing needed is good stock and energy. Without the latter no one makes a success in any line of work. Trapnest your pullets if you possibly can, but if you cannot do that, select your breeders from the late layers. The birds that are laying after October will give you stock worth while and the birds that are laying in November and December will be still better. Select a few December layers, and if you are not sure of your own stock, get an egg-bred cockerel from some reliable breeder and mate him to that pen of birds, saving cockerels from that pen to mate with your other birds. I cannot imagine a more beautiful sight than a flock of well bred S. C. White Leghorns on range, green grass, apple blossoms and the white beauties. An apple orchard is the ideal place to raise them, as it benefits both trees and birds. Even if one has not a large amount of land, he can raise a few chickens to his own advantage, and I am sure that when Uncle Sam needs our help, as he does now, no loyal man or woman will fail in doing his bit, be it large or small.

First Missoula Public Schools Egg-Laying Contest.

THE following is the first report of the Missoula, Mont., Public Schools Egg-Laying Contest. It covers the month of February, 1918. Not only has the contest aroused a great amount of interest among the students, with the result that many of them are already planning on raising more and better poultry, so that they will be better equipped for the next contest, but it has also brought out many points of information of general value, among which are: Number of pounds of feed consumed by the average bird of the large breeds and of the small breeds, also cost of food per bird; number of eggs laid by the average farm hen; average food cost to produce a dozen eggs on the farm, especially in winter when the birds do not have the advantage of free range and all of their food has to be provided. All of these and other points are being brought out and worked upon by the students.

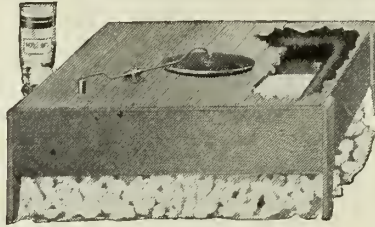
Just a word regarding the contest, *the first to be held by a grade school in America*. The building is after the plan of the Missouri "Farmers' Fool Proof" hen-house, the style of house used at the America Contest being held at Leavenworth, Kansas; size of house is 14x14 feet, divided into two pens 7x14, one for the light flock and one for the heavy flock. The lumber for the building was purchased by the Board, the boys of the 7th and 8th grades built the house, also the feeders and trapnests as a part of their manual training work; the boys and girls of the 6th, 7th and 8th

Enlist!

in the Poultry Producers Brigade



And help win the war by raising chickens in a



Liberty Colony Brooder

Build it yourself. Easy! Requires a few feet of lumber, a few joints of stovepipe. We send complete plans and all equipment. Gives you a brooder 44 inches square with all space under canopy available for brooding purposes. Has capacity of average coal-heated brooder. Uses Sol-Hot Oil Lamp and stovepipe hot air system.

Writes: "Have your Colony Brooder running. 410 chicks under it. It's a splendid brooder. Work is less than with coal stoves." Equipment consisting of Sol-Hot Lamp, Regulator and Thermometer, \$5.00.

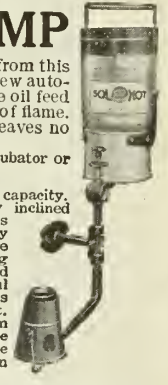
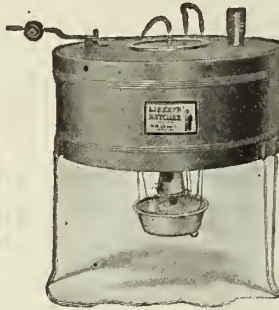
SOL-HOT WICKLESS BLUE FLAME OIL GAS LAMP

Burns coal oil but by combining about 95% air with 5% vapor from this inexpensive oil, produces a perfect blue and Sol-Hot flame. New automatic oil filter enables it to burn low grade oil perfectly. Visible oil feed gives absolute flame regulation and prevents flaring or creeping of flame. Equipped with safety shut-off and automatic flame control. Leaves no residue, smoke or soot. No wicks to trim--no danger.

Made in three sizes. Will increase the efficiency of any standard incubator or brooder. Write for booklet describing it.

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is made in two sizes, 70-egg and 100-egg capacity. Nest type. Eggs held in circular rows by inclined rings in deep hatching tray. Chicks drop into nursery beneath as they hatch. Combined damper and flame regulation and construction of egg chamber give uniform heat and save fuel. Surplus heat and foul gases escape automatically. Has standard first class equipment. Durably built--heating system welded by electricity. Costs little--takes little space. Try for one hatching. If not satisfied, return and money will be refunded.



Write for literature on Liberty Hatcher, Liberty Colony Brooder, Sol-Hot Lamp, Regulators, Lamps, Tanks, Heaters, etc. Free plans for building your own incubators and brooders.

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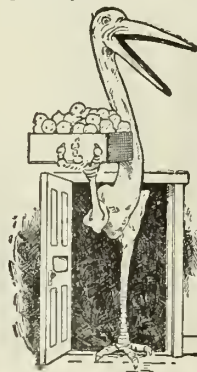
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All baby chicks look much alike when hatched, but there is a vast difference between them when they reach maturity. It's mighty good business to look ahead and secure chicks now which will be right when they are grown. It will be too late to change this fall. So order "Million-Egg Chicks" now and have no regrets later.



Eight Leading Breeds

Breeding flocks, selected pure-blood stock, cooperatively bred and steadily improved for seven years. Kept on free range. Healthy, vigorous and productive. Chicks hatched by a superior system of incubation, developed and operated by Milo Hastings, former U. S. Government poultry scientist. These Best-Hatched chicks possess highest vitality. They are easy to raise, are worth-while at all ages, are satisfactory and profitable.

PRICES are moderate. SAFE DELIVERY guaranteed. Special CASH FORFEIT if chicks are not shipped week promised. Buyers PROTECTED in every way. Write today for FREE CATALOG.

THE MILLION-EGG INCUBATOR

(Tiffin Poultry Farms & Hatchery)
48 CLAY ST. - - - TIFFIN, OHIO

Burgwin's Single Comb Black Minorcas

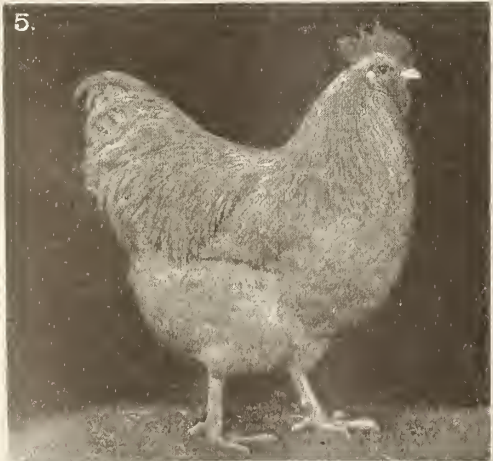
I am offering a fine lot of Yearling Cocks that weigh up to 11 lbs. Cockerels, Hens and Pullets equally as good. Compare my prices with other breeders. My show records will convince you. Get my prices for breeding pens and trios mated for best results. Write me for your wants. Eggs in season from three pens, \$3, \$4 and \$5. J. L. BURGWIN, Coats, Ohio

3 years—36 issues—of American Poultry Journal for \$1



1. WHITE ROCK
COCKEREL
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SIX UNSHOWN
COCKERELS
AT OWEN
FARMS
CAPABLE OF
WINNING &
BREEDING
WINNERS
FOR THE
STRONGEST
COMPETITION



BRED AND OWNED BY
OWEN FARMS VINEYARD HAVEN MASSACHUSETTS

A. O. SCHULTZ
1918

grades furnished the birds; the Missoula Chamber of Commerce is buying the feed; Charles Greenfield, a poultry judge and expert, of Butte, Montana, furnished the leg bands; the local business subscribed to a fund with which to pay prizes for the best layers; James Newcomb, of the Vienna Cafe, is taking the eggs laid at the contest, paying the children a premium for them. One boy living near the school yard is paid \$5 per month for looking after the feeding and care of the school flock nights and mornings, also on Sundays, Saturdays and holidays. The trapnesting and marking of eggs is done by the children in the class, two being detailed for this work each week; the children mix the dry mash feed as a part of their class work, also as part of their arithmetic work, figure the production costs, etc.

Any surplus accumulated, after paying the expenses of the contest will be used to send an exhibit to the State Fair this coming fall, it being our intention to

White Plymouth Rocks

Our strain possesses superior qualities in type, color and egg laying, we have been breeding them that way. They win for us and will do the same for you.

EGGS, the Best—\$4 per 15; \$15 per 300.
Utility—\$2.50 per 15; \$10 per 100.

COCKS BROS.
Box 284 ATTLEBORO, MASS.

HIGHEST SCORE EVER WON

100 Envelopes, 3½x6½ inches, an extra strong, thick, smooth, slick, white writing face, and **100** Letterheads, 8½x11 inches, heavy, hard, smooth, slick, pure white writing paper, all artistically printed and illustrated with latest new Standard cuts of your breed for only \$1.00. Express charges paid by me. Better printing for the price was never done. No order less than \$1.00 filled. Name your Express office. Cards, tags and egg labels same price as above.

Address, J. R. HUDSON, Hardin Springs, Ky. We have saw samples of Mr. Hudson's printing. It is very nice; he is perfectly honest.—EDITOR.



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A New Variety
Send for Catalog.
I. H. MURRAY

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TRADE MARK AEM THERMOMETERS NEVER VARY

You cannot afford to risk using any other thermometer in incubators or Brooders. Insist on "A. E. M." At dealers or direct.

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PALMER'S BARRED ROCKS one of America's oldest as well as greatest strains. Write for our free mating list and prices of eggs. If you want the best we have it.
D. F. Palmer & Son, Box 35, Yorkville, Ill.



60 VARIETIES—THOROUGH BRED POULTRY
Ducks, Geese, Guinea, Turkeys, Pheasants, Yokohamas, Games and Peafowls. 2000 vigorous, profitable fowls for sale. Bred-To-Lay Strains. Stock and eggs. Any quantity, satisfaction guaranteed. Circular, 2c. BOIES' P. O. WILBERT & Co., Grand Rapids, Mich.



ASK BOIES HE'S GOT 'EM.—Animals, Birds, Poultry, Pigeons, Pheasants, Dogs, Rabbits and all Pets. CATALOG listing over 500 kinds with valuable feeding and breeding chart, 10c. BOIES' Illustrated Book on Rabbits, best ever published, 25c. BOIES' PET STOCK FARM, Box 213, Millbrook, N.Y.

Vegetable GARDEN, 25c

Lettuce, Cucumber, Radish, Beet, Carrot, Parsnip, Peas, Beans. Enough for your garden, postpaid. Order early.
Pine Tree Nursery, Round Pond, Me.

send the two children passing the best examination in poultry work, together with a model of the house, trapnests, feeders and the hens laying the most eggs, to the fair. The examination papers will be graded at the Bozeman Agricultural College.

Regarding the birds in the contest: Twelve of the children brought three birds each, 36 in all; one-half being from the heavy breeds and the other half from the light breeds. Each child selected their own birds, which, I believe, are fairly representative of the standard of poultry kept on the average Western farm with regard to breeding, raising and care. Some were good, some fair and the others poor, very poor, especially in the case of the Leghorns.

None of the egg records made for the month were very startling; five birds, or only 7 percent, laid enough eggs to pay for their feed and a little over. The rest were kept at a loss. Figuring the contest as a whole, each bird was kept at an average loss of 24½ cents each, or at the rate of \$24.50 on one hundred birds per month, which amount will fairly represent the loss on every 100 hens kept on the average farm for at least each of the months of November, December, January and February. Yet the government has prohibited the slaughter of these very birds until after the breeding season is over and ninety percent of the farmers will keep and breed their next season's layers from this stock. *The pity of it!* If the American farmer is going to produce eggs as a part of his share in winning the war he will surely have to change his stock and manner of caring for his birds. For he is rendering scant aid when every dozen eggs he produces is costing on an average of \$1.37 for feed alone, to say nothing of labor, interest and depreciation charge. The best layer produced a dozen eggs at a feed cost of 30 cents a dozen, not including the cost of the straw for litter and returned a balance of 32¾ cents for the month or at the rate of \$32.75 for one hundred like birds.

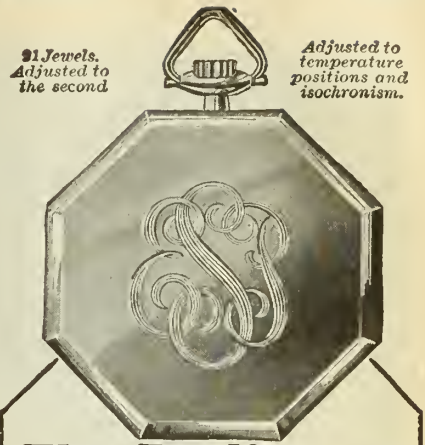
A summary of the total number of eggs laid and feed costs for the 36 birds for February follows:

Total eggs laid.....116, or 9¾ dozen
Average selling price.....57½c per dozen
Value of eggs.....\$ 5.60
Cost of feed for February.....14.32
Loss for month.....8.72

The dry mash contains material for 2½ whites to every 1 yolk. We have tried to make the white and yolk material as nearly equal as possible by the feeding of other feed, oats and corn, which are higher in yolk than white material. However, the birds seemed to relish the mash, especially the heavy birds, and consumed nearly as much mash as grain, with the result that they got more white than yolk material. This month we will keep the dry mash hopper in the heavy pen closed until noon and increase our sprouted oats, will also feed carrots and in this way hope to get the ration more evenly balanced. The amount of feeds consumed in February, with their white and yolk content follows:

Oats 70 lbs. 137 yolks 108 whites
Corn 119 lbs. 270 yolks 159 whites
Mash 158 lbs. 304 yolks 648 whites

711 yolks 915 whites
L. E. HARRIS, Director.
Missoula, Montana, March 5, 1918.



21 Jewels. Adjusted to the second

Adjusted to temperature positions and isochronism.

The Burlington Smashes All-Watch Competition Look!

21 Ruby and Sapphire Jewels—Adjusted to positions—Adjusted to temperature—Adjusted to isochronism—25-year gold strata case—Genuine Montgomery Railroad Dial—New Ideas in Thin Cases.

Only \$ **2.50** A Month

And all of this for \$2.50—only \$2.50 a month for the masterpiece of watch manufacture—direct to you—positively the exact price that the wholesale dealer would have to pay. Think of the high-grade, guaranteed watch we offer here at such a remarkable price. And, if you wish, you may pay this price at the rate of \$2.50 a month. Indeed, the days of exorbitant watch prices have passed. Write today—now.

The Newest Cases

In our new watch book, that we will send to you free and prepaid, you will see illustrated the newest ideas in watch cases. The latest triumphs of the master goldsmiths. Notice especially the Inlay Enamel Monograms, Block and Ribbon Monograms, Lodge Emblems and Diamond Set Cases. All offered direct to you on this startling offer. Send the coupon today.

See It First!

You don't pay a cent to anybody until you see the watch. You don't buy a Burlington watch without seeing it. Hold it in your hand and admire it. Notice the design, handsomely shaped—aristocratic in every line. Then look at the work! There you will see the masterpiece of the watch makers' skill. A perfect timepiece adjusted to positions, temperature and isochronism.

Free Watch Book

Get the Burlington Watch Book by sending this coupon now. You will know a lot more about watch buying when you read it. You will be able to "steer clear" of the over-priced watches which are no better. Send the coupon today for book and our offer.

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19th St. and Marshall Bldg.
Dept. 3894 Chicago, Ill.

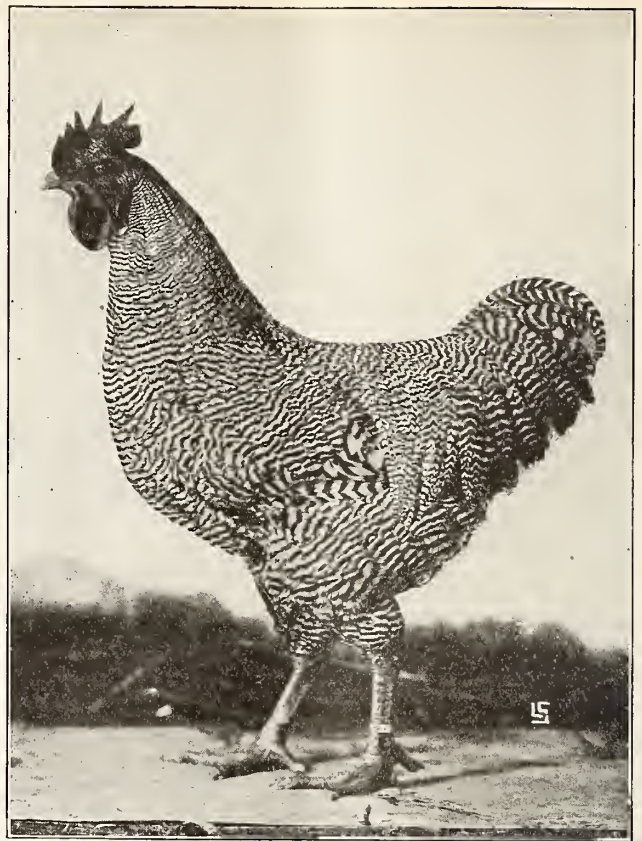
Please send me (without obligations and prepaid) your free book on watches with full explanation of your cash or \$2.50 a month offer on the Burlington Watch.

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Address _____
Chicago



UNRETOUCHED PHOTOGRAPH BY L. A. STAMMER

S. C. White Leghorn cockerel, bred and owned by Hillview Farm, Box 27, Lincoln, Mo.



First prize cockerel and grand champion male at National Barred Rock meet, Greater Chicago Show, January, 1918. Owned by Fair Oaks Farms, Waukegan, Ill.

Shoemaker Poultry Farm

Freeport Illinois

Established Over 28 Years

NOW is the Time to Hatch

Don't put off ordering your eggs any longer. Hatch this month and have your pullets large enough to lay next fall and winter when eggs are high. The freezing cold is now past and the chances of accident are reduced to a minimum. The supply of breeding stock in the country is getting smaller and smaller every day. Are you going to be one of the far-sighted ones and have a good-sized flock established when the rush comes? Start right. Buy

Shoemaker Farm Eggs

Poultry Almanac For 1918
It is a textbook of information. Tells about and shows pictures of the different varieties, incubators, brooders; poultry ills and how to cure them, what and how to feed, how to build poultry houses, etc. Write for it today, inclosing 15 cts.

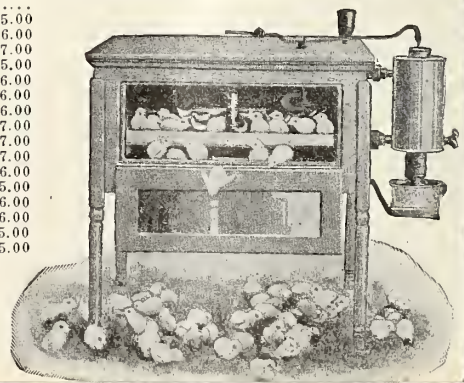
	Per 13	Per 26	Per 39
Light Brahmas	\$2.50	\$4.50	\$6.00
Dark Brahmas	3.00	5.50	8.00
Buff Cochins	3.00	...	...
Partridge Cochins	2.50	4.50	6.00
S. C. R. I. Reds	2.50	4.50	6.00
R. C. R. I. Reds	2.50	4.50	6.00
Black Langshans	2.50	4.50	6.00
Buff Orpingtons	2.50	4.50	6.00
White Orpingtons	3.00	5.50	7.50
Barred Plymouth Rocks	2.00	3.50	5.00
Buff Plymouth Rocks	2.00	3.50	5.00
White Plymouth Rocks	2.00	3.50	5.00
Black Javas	2.75	5.00	7.00
Dark Cor. Indian Games	2.75	5.00	7.00
Black Sumatra Games	3.00	5.50	8.00
Black B. Red Games	3.00	...	...
Pit Games	5.00	...	...
Silver Laced Wyandottes	2.00	3.50	5.00
Golden Laced Wyandottes	2.50	4.50	6.00
Black Wyandottes	2.75	5.00	7.00
White Wyandottes	2.00	3.50	5.00
Buff Wyandottes	2.50	4.50	6.00
Partridge Wyandottes	2.50	4.50	6.00
Columbian Wyandottes	2.50	4.50	6.00
Red Caps	2.75	5.00	7.00
Blue Andalusians	2.75	5.00	7.00
White Faced Bl. Spanish	2.75	5.00	7.00
Houdans	2.50	4.50	6.00
S. C. Black Minorcas	2.00	3.50	5.00
R. C. Black Minorcas	2.50	4.50	6.00
White Minorcas	2.50	4.50	6.00
S. C. B. Leghorns	2.00	3.50	5.00
S. C. W. Leghorns	2.00	3.50	5.00

	Per 13	Per 26	Per 39
R. C. B. Leghorns	\$2.00	\$3.50	\$5.00
R. C. W. Leghorns	2.00	3.50	5.00
Buff Leghorns	2.00	3.50	5.00
Silver Spangled Hamburgs	2.50	4.50	6.00
White Crested Bl. Polish	3.00	...	...
Buff Cochins Bantams	2.50	4.50	6.00
Golden Sebright Bantams	2.50	4.50	6.00
Mottled Anconas	2.50	4.50	6.00
Mam. Bronze Turkeys	\$5.00	\$9.00	\$13.00
Imperial Pekin Ducks	\$2.00	\$3.50	\$5.00
Rouen Ducks	2.00	3.50	5.00

Globe Incubators and Brooders

The test of years has proven them The Best. Thousands of satisfied users have proven their worth. Satisfactory in results and satisfactory in prices.

C. C. SHOEMAKER, Box 605, FREEPORT, ILL.



An Appeal and a Warning.

Editor American Poultry Journal.

Dear Sir—I have mailed to you copy of the appeal of the Hon. Frank O. Lowden, Governor of Illinois, to the farmers of the state to produce a normal crop of poultry and eggs and make increases whenever possible.

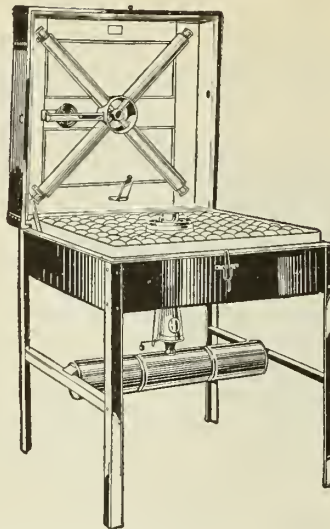
In behalf of the Department, I want to urge upon you the importance of giving this appeal of the Governor as much publicity as you can. The very serious shortage of the wheat crop, which has come to light the last few days as the figures have been compiled and made available, simply means that we must eat more meat and less wheat, and the animal industry of this country cannot stand the drain under present conditions unless every effort is made to maintain a normal production in all lines and make material increases in poultry and eggs.

The burden of doing this falls upon the farmers of the Mississippi Valley. Here we have the feed and there is some balance existing between the feed produced and the poultry that is grown and kept. The situation is becoming serious and we all know that this is the time when the farmers and poultry people either get out a big hatch or they do not.

I sincerely trust that you will take up the appeal of the Governor of this state and give it the proper publicity.

I have also sent to you a copy of a short item which is something in the nature of a warning to poultrymen and farmers not feed moldy corn. The condition of the corn crop is the worst in the history of the state. Unless a great deal of this corn is kiln dried it cannot be cracked. I understand that there are poultry feed people who are taking this soft corn which cannot be cracked and smashing it, and making mixed poultry feed. As a necessary precaution, they are putting on the bag, so I have been told, a statement to the effect that the bag of feed should be emptied at once. This rotten, moldy, poisonous corn can be purchased at as low a price as 50 cents a bushel. It is especially important that we warn all feeders against the use of moldy corn. As feed on the farm gets scarce before the next crop comes along, and it is very likely to be because the corn is not keeping, the temptation to feed this poisonous stuff to chickens will be very great.

I earnestly hope that this circular letter will enlist the co-operation and public service of each of the four poultry papers published in



No. 20, 200-Egg Improved X-Ray Incubator, 1918 model. Manufactured by X-Ray Incubator Co., Dept. 10C, Des Moines, Iowa.

the State of Illinois. What I alone can do is very limited. It is only thru the co-operation of all the agencies in the state, including the poultrymen, the farm advisers, the daily press, the farm papers and the poultry papers that we can hope to make this poultry campaign measure up in some way to the importance of the great industry in which we are all so vitally interested. Yours truly, Frank L. Platt.

Raise Poultry as Aid in War, Lowden Advice.

Springfield, Ill., March 15.—Farmers of Illinois are told in a statement issued today by Gov. Lowden that they can do a real war service by raising poultry. The statement given at the request of Frank L. Platt, Extension Poultry Husbandman, U. S. Department of Agriculture, in co-operation with the State

College of Agriculture, Urbana, follows:

"I cannot too strongly urge upon the farmers of the state to give special attention to poultry raising this year. I do not mean by this commercial poultry raising upon a large scale. But every farm can carry a considerable amount of poultry, with but little care and little expense. Poultry will subsist largely upon what would otherwise go to waste on the farm. To this extent, we may regard poultry as a by-product. And, to this extent, it is the cheapest food produced upon the farm. The value of the annual poultry production of Illinois is somewhere near \$25,000,000, as I am informed. This could be greatly increased. The reason why the production is not larger is that the farmer, usually regarding it as a mere incident to his work, keeps no accurate account of the value which he produces in this way. If he did, he would be amazed to find how substantial a part of his living comes from this source.

"The food question looms larger and larger all the time. The largest production possible, within the limit above suggested, may mean, another winter, the difference between ample food and real want."

(Signed) Frank O. Lowden.

Beware of Imitation

Best in the World
FLEMING
EGG PRESERVER
Bar None

Just rub it on.

Costs 2 cents a doz.

Preserve Your Eggs

while they are cheap. One 50c package will preserve 30 doz. eggs nine to twelve months; if kept where cases are exposed to circulation of fresh air they cannot be distinguished from freshly laid eggs. Endorsed by agricultural colleges and other authorities. Send 50c for a trial package.

THE FLEMING EGG PRESERVER CO.
6151 S. SANGAMON ST. CHICAGO, ILL.

Partridge Rock Eggs from range flock, \$7.50 per 100; \$4 per 50. Baby Chicks on order at double the price of eggs. Eggs from fertilized pens; \$5, \$7.50 and \$10 per 15. Order early from this advertisement. No Sunday business. MEADOWLAWN FARM, Dept. C. D., SAND CREEK, MICHIGAN

ENDORSED, RECOMMENDED AND USED BY AMERICA'S MOST SUCCESSFUL POULTRY RAISERS

Licene

Exterminates all Chicken Lice as if by Magic

When such breeders as Mrs. Helen Dow Whitaker, E. B. Thompson, Dr. N. L. Smith, A. C. Hawkins, O. F. Mittendorf, Prof. T. E. Quisenberry, Len Rawnsley, U. R. Fisbel, A. A. Carver and thousands of other big breeders that have had years of experience in raising poultry, endorse and use a preparation as the best, it must have exceptional merit, and will do all that is claimed for it.

LICENE Makes Hens More Profitable

No hen can lay her best when tormented by lice. Kill the lice and watch the increase in your egg production. E. B. Thompson, breeder of Barred Rocks, writes:

I have tried LICENE with the very best of results; it is a most excellent preventive of lice and a quick exterminator. LICENE should have a great sale to poultrymen who must appreciate its value after being tried.

LICENE Cheapest Lice Killer Known

Price, 60c a Tube, Postpaid Sufficient for 150 to 200 Fowls

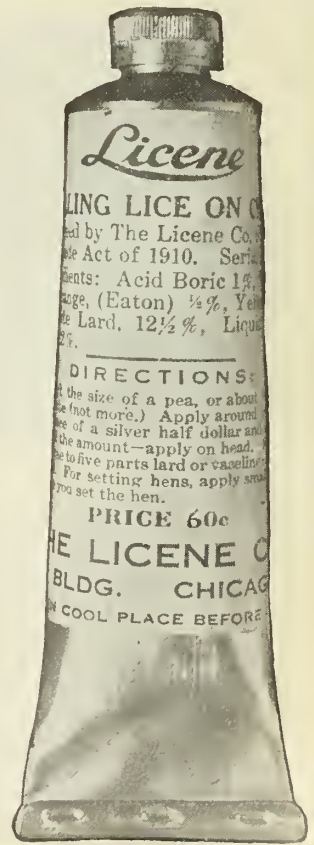
LICENE is applied twice a year, but many report that they have found one application a year sufficient. When you stop and consider that one tube is sufficient for 150 to 200 birds, you must realize that LICENE is cheaper than lice powder and liquid lice killers. It is also more conveniently handled and more easily applied, saving time, labor and money, making LICENE not only the best but cheapest lice exterminator the world has ever known. Put up in collapsible tubes, which prevents waste. Remember LICENE will not injure the birds in any way or destroy fertility of eggs, so with our positive guarantee you take absolutely no risk in giving LICENE a trial.

Positive Satisfaction Guaranteed or Money Back

If Licene does not destroy every louse and "nit" (egg of a louse) or does not clean scaly legs on your chickens, or if applied on sitting hens, and does not prevent head lice on chicks—you are the judge—we will refund your money if you notify us (or our agent) within one month after receiving Licene and no questions will be asked.

The Poultry Doctor FREE This little book is worth its weight in gold to any one raising poultry. Thousands of poultry breeders are following its suggestions with success and profit. It contains 16 different tested and proven formulas of remedies for diseases common among fowls. It is invaluable to the beginner and experienced breeder alike. Remember it is absolutely FREE, so just send your name and address for it

THE LICENE CO., 1508 Pontiac Bldg., CHICAGO, ILL.



Perry's Rose Comb White Leghorns

bred 16 years for eggs and beauty. 1st prize males Chicago, New York and Ohio State Fairs head our pens. Eggs, \$2 and \$3 per 15; nothing but the best mated. Grand cockerels \$2.50 to \$5.00. Reasonable satisfaction and safe arrival guaranteed.

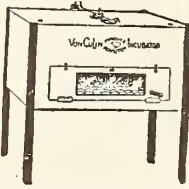
LOUIS H. PERRY Route No. 8 CLAY, N. Y.

VON CULIN INCUBATOR

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ABSOLUTELY FIREPROOF
WRITE FOR CATALOGUE

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S. C. BLACK ORPINGTONS GLENCO STRAIN

Winners at Chicago Coliseum, Kansas City, Omaha and Des Moines. Write for Circular.

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BANTAMS America's Finest Bantams. 40 varieties. Game and Ornamental. Shipped on approval. Winners at the largest shows. Stock for sale. Prices reasonable. Cat. 2c. Choice Golden, Silver and Ringneck Pheasants, Pit Games and Fancy Dogs. F. C. WILBERT & CO., Grand Rapids, Mich.

SEEDS 15 Choice Bulbs **10c**
Collection High-Grade Flower Seeds.

Old Homestead Nursery, Round Pond, Maine

FOOD ADMINISTRATION EXPLAINS POULTRY EDICT.

HOUSE OF REPRESENTATIVES, U. S. COMMITTEE ON THE JUDICIARY.

Washington, D. C., March 13, 1918.
Dr. Prince T. Woods,
Silver Lake, Plymouth County,
Massachusetts.

Dear Dr. Woods:

Supplementing my recent letters, the Food Administration advises me as follows:

"The live hen killing order (Rule 15, marked 14 in error) which prevents licensees from handling live or freshly killed hens or pullets until after April 30, was promulgated to stop the enormous slaughter of hens during the laying period, especially in the corn belt and Southern States, from which the great bulk of the commercial supplies of poultry and eggs are derived. The order does not apply to the sale of pullets below 2 pounds in weight, to the local sale of poultry by the farmer, to the retailer or consumer who is not licensed, or to the sale of pullets or hens for egg producing purposes.

"There has been a steadily increasing sale of poultry on account of the increasing cost of feed and labor, and the high prices paid for poultry. It is estimated by the Department of Agriculture that the United States is now at least 50 percent short on poultry on farms. Every effort is being made by the Department and by the poultry departments of the agricultural colleges to check this rapidly increasing slaughter during the egg-laying season. The order supplements this effort.

"It is estimated that 95 percent of the live poultry shipped during the period comes from Texas and the states each and west to the Carolinas and Tennessee. From one of these states 40 carloads of live hens, or 160,000 in all, were shipped during the month of January, thereby destroying approximately 5,000,000

eggs before May 1. An investigation of the hens on arrival in the markets showed that 25 per cent were laying eggs and that a large proportion of the balance were about to commence laying. In the territory west and east of the Ohio, the order has no particular economic effect, because less than 5 percent of the commercial live hen movement takes place during this period from this region.

"The order is having the desired effect in keeping the laying hens on the farms to increase the national egg supply and to provide the broods of chicks for next year's layers. It is preserving one of the greatest agricultural industries from demoralization similar to that which has taken place in our allied countries, in some of which the supply of poultry and eggs is confined almost wholly to hospital and invalid use."

This is very little satisfaction for the complaints that have been lodged and it does not appear to me that true appreciation of the situation is possessed by the officials.

Yours very truly,
Joseph Walsh,
16th District, Massachusetts.

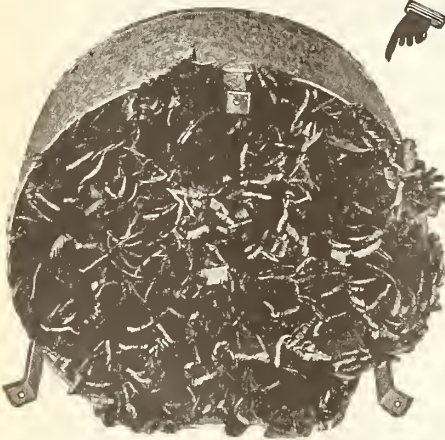
The Food Administration asks us to believe that farmers in the "corn belt" were sacrificing laying hens and that this brought about the order. As if the government could legislate the American hen into profitable productivity, even "in the corn belt and Southern states." Of course, the hens marketed were being culled out to make room as is usual in the spring. The season in the South and Southwest is considerably in advance of ours in the North. Certainly farmers were not marketing profitable layers. Such a conclusion is absurd.

We would like to know about the poultry in those "states East and West to the Carolinas." Probably the man who gave birth to that has a bright vision of crossing the American hen with Massa-

100% Brooder

SEE THESE FEATHERS?

They raise chicks to maturity with the least mortality.



The little chicks are helpless and cannot prevent you from housing them wherever you please, but instinct tells them that feathers will keep them warm and for this reason they take to the Simplex Perfection Feather Brooders like young ducks take to water—and they are perfectly contented and well cared for when they get inside.

Raising baby chicks to maturity assures your success as a poultryman, the loss of baby chicks predicts failure. You cannot afford to experiment. Experiments are costly. Nature did the experimenting long before you were born—therefore raise the chicks the way Nature intended them to be raised—under feathers.

What Feathers Really Are

Perhaps you are one of the many people who do not realize that that a feather is entirely different from any manufactured ma-

terial. It is one of Nature's products and when analyzed it will be found that feathers are composed of nothing but air, with the exception of the quill. They are also non-conductors of heat and cold and therefore are perfect retainers of body heat; that is reason why

"Simplex Way is Nature's Way"

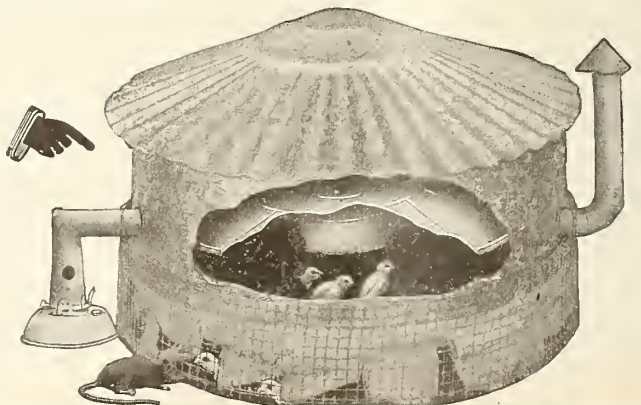
No matter whether the chicks were hatched with incubators or hens, the Simplex Perfection Feather Brooders will take care of them and raise them into strong, healthy, vigorous birds; the kind that count. If you hatch with hens take the chicks away, put them in one of our feather brooders and they will not bother their mother. Let her start laying again and make egg money for you. She won't do it as long as the chicks hover around her, but she will if the chicks are put in the Simplex Perfection Feather Brooders.

This shows The heating attachment

SIMPLEX BROODERS are made in both heated and fireless construction. Also in hover form for heated brooder houses. The Prices range from \$3.00 to \$11.00. The sizes from 50 to 150 chicks.

Investigate these brooders before your next hatch comes off. Send for our complete catalog—you will not regret it.

SIMPLEX SUPPLY HOUSE 1300 Pontiac Bldg. Chicago, Ill.



chusetts' Sacred Codfish, in order to secure the wonderful egg yield of the latter.

It is rank humbug to try to make anyone believe that the 40 carloads of live poultry, containing 160,000 hens, were examined on arrival at market to determine their fecundity. Who were these "experts," with X-ray eyes, who discovered that "25 percent were laying" and that "a large proportion of the balance were about to commence laying?" Tell us, Messrs. Hoover and Priebe, who are these phenomenal prognosticators of the ability of these cull hens from farm flocks to produce eggs, after their owners had decided them to be no longer profitable? If Uncle Sam does not need these Argus-eyed gentlemen in his secret service, they might make a fortune Hooverizing the farm flocks of the country.

That statement concerning 5,000,000 eggs is just weak camouflage. Up to the time those hens arrived in the market it may be assumed that the eggs were saved. Rule 15, erroneously labeled 14, was not announced until the evening of February 11—it did not become effective on contracted for stocks until February 23—and it expires April 30. Taking the maximum limit of the rule, it is effective only 78 days. Does Mr. Hoover expect us to believe that 40,000 hens—cull hens from Southern farms—could be expected to produce 125 eggs each in 78 days? Has he, among other things, discovered the two-eggs-a-day hen, and in carload lots? Even if each and every one of those 160,000 hens should have been unusually productive, are we to believe that in the brief period up to May 1, 78 days at time edict was put into effect, that they would average in that time to produce 31.25 eggs each, or a total of 5,000,000 eggs? Just remember that the average farm hen does not average to produce more than 7 dozen eggs in twelve months, or 365 days. This egg talk and explanation is just camouflage and a very poor quality at that. Any man who could hypnotize the American farm hen into such wonderful productivity as the Food Administration pretends to expect of her, could befoozle "Kaiser Bill" into an immediate and unconditional surrender. We should send him "over there."

Advices from England show that eggs there were selling for 6d.—12 cents—each the first week in March and the poultry industry is taking a new lease of life. In New England the poultry edict and arbitrary interference with the poultrymen's business succeeded in smashing the price of eggs until on March 15 eggs were selling on the farm at 30 to 35 cents per dozen and the prices of grain and feeds were advancing. Fresh-killed and live fowls were practically eliminated from our markets, removing all competition of the Western-killed poultry sent in by big packers and shippers. Prices of this Western-packed poultry climbed very high and a movement to induce the public to "eat more poultry" was started.

It is pretty well known that big business in the West has for a long time been trying to kill competition by the large independent Eastern egg farms and market poultry plants. Plants which ship to big Eastern markets from a few cases to 30,000 and 40,000 dozen eggs annually and from a few hundred pounds to from 3 to 5 tons of dressed poultry weekly at this season. These figures representing



COCKEREL-BRED PULLET
A National Barred Rock Club winner at Fair Oaks Farm. Note character of barring. Bird now being bred in yard 5. Owned and bred at Fair Oaks Farm.

Fair Oaks Barred Rocks

don't live in the past.

Their records of victories are *modern history*.

In our pens you will find the following winners at the National Barred Rock Club Meet at the Greater Chicago Show, where the cream of the nation's finest Barred Rocks were gathered—from the East, West, North, and South:

First pullet-bred pen, first and second cockerel-bred pens, first and grand champion exhibition male cockerel, first and second pullet-bred cockerels, first, second and fourth cockerel-bred hens, second cockerel-bred pullet, seventh exhibition hen, and seventh exhibition pullet, seventh cockerel-bred pullet, eighth pullet, third and seventh exhibition cockerels, third pullet-bred cock, sixth pullet-bred cockerel. This list includes all Mr. Rogers' individual winners, which are now at Fair Oaks Farm. Mr. Rogers' winnings at Centennial Show at Springfield, Ill., 1917-1918: Exhibition class, first and second cocks, second and fourth hens, first, third, fourth and fifth cockerels; cockerel-bred first hen, first pullet and first pen; pullet-bred, first cock, first cockerel, first pen. Besides grand champion male of whole show, shape and color specials, and all specials for best display.

22 Grand Matings for 1918

Twenty-two great pens have been mated for this season's egg trade, containing the above winners. A few settings of eggs from these matings will produce individuals that cannot but help improve any flock, or give you a start in Barred Rocks that will put years ahead of your competitors. Many a prize winner next fall is coming out of these eggs this spring. Remember, a good hatch is guaranteed. Mating list free on application. Eggs, \$10.00 and \$5.00 for 15.

A Number of Grand Cockerels For Sale

A lot of choice cockerels of the same breeding as the above winners are for sale. If you want to introduce new blood into your flock, or raise the standard of your birds, here are some great bargains for quick action. Prices \$7, \$10, \$15 and \$20.

Game and Ornamental Fowl

We raise game birds and ornamental land and water fowls in sufficient numbers to stock large estates and farms with quality and variety that will satisfy the most fastidious. There are many varieties at Fair Oaks to select from: In Pheasants, all varieties; in ornamental ducks, we have all popular varieties. We also have Canadian Wild Geese, Egyptian Geese, California Valley Quail, Bobwhite Quail and dozens of varieties of pigeons.

Send 25 cents for our instructive booklet, "Management and Care of Pheasants and Other Ornamental Fowl," richly illustrated with handsome engravings. Ornamental birds are a very profitable side line for the poultry keeper. Send 25 cents today to cover postage and mailing on the book.

FAIR OAKS FARM Dept. A, WAUKEGAN, ILL.
P. J. Sexton, Prop., B. E. Rogers, Mgr.



WYCKOFF'S S. C. WHITE LEGHORNS

ACKNOWLEDGED EVERYWHERE THE WORLD'S GREATEST LAYING STRAIN—UNEQUALLED IN STANDARD QUALITIES
Remember that we are the originators and for 35 years specialty breeders of the justly celebrated WYCKOFF Strain of S. C. White Leghorns, the most profitable strain of poultry in America to-day. Place your orders at headquarters and make no mistake.

Eggs for Hatching

from the most carefully selected matings. Our breeding pens this season are made up with the finest lot of stock that we have ever owned. For size, strength, vigor and laying qualities, together with the true Leghorn type, they are unequalled. Place your order early and get in line with the most profitable era ever known in the poultry business. Send for free catalog, giving prices and complete description of the stock, together with testimonials from satisfied customers in all sections of the country.

C. H. WYCKOFF & SON, AURORA, Cayuga Co., N. Y.

the shipments of individual independent plants. The poultry edict is smashing these plants. The packer's agent now on Food Administration is alleged, by Atty. Heney of Federal Trade Commission, to have been an active worker in

smashing small independent concerns. We submit that this is no way to encourage production of poultry, no way to stimulate an increase in chickens hatched and reared during this the 1918 growing season. The ban on sale of

hens helps no one but the big packers and shippers, and later on the whole Nation will suffer from this monumental folly—or worse, this probable monopolistic control of poultry and eggs.

England has tried this sort of thing and failed. She put a price on butter and lost her supply. Now people in France buy butter, where it is fairly plentiful, at \$1 per pound and ship it by registered first-class mail to friends in England. England put a low maximum price on rabbits, and shortly there were no rabbits where there had been plenty before. No one supposes that English rabbits suddenly lost their marvelous fecundity. It simply did not pay at the fixed price to produce rabbits for sale and production ceased.

At its present gait our unwise Food Administration will kill the poultry industry and smash producers in the United States. To secure production it must be made profitable for producers and their business must be unhampered by unwise legislation. It would be better to pay high prices and have food enough for our needs, than to have fixed low prices, restrictions on producers, and food so scarce that most of us cannot get any.

Mr. Hoover talks a lot about "famine" and "food shortage" and he seems to be leading us to it by the quickest route.

"Gas" the Poultry Lice

Declare war upon these destructive, profit-killing vermin. Adopt a policy of "frightfulness." Kill them by wholesale with LICECIL vapor. Merely hang a bottle of LICECIL near the roosts as directed. The vermin-killing "gas" will be delivered constantly in sufficient quantities to exterminate the lice and mites, to keep birds and roosts free from these trouble-makers.



Effective—No Trouble—Little Cost

Not necessary to handle each bird separately to dust or grease. The LICECIL vapor works all the time. No injury to the birds—sure death to vermin. LICECIL evaporates slowly, so treatment is inexpensive.

"We received the two bottles of LICECIL and have tested it thoroughly in the nests and find it a most excellent remedy to eradicate lice and parasites that infest the hens." A. E. MARTZ, Arcadia, Ind., Pres. Great Coliseum Poultry Show, Chicago.

"I have been in the fancy poultry business for 12 years. Have tried all kinds of lice exterminators but have found nothing that will compare with LICECIL as a louse exterminator." D. S. NEWTON, Osawatimie, Kan., Sec. Treas. Miami County Poultry Assn.

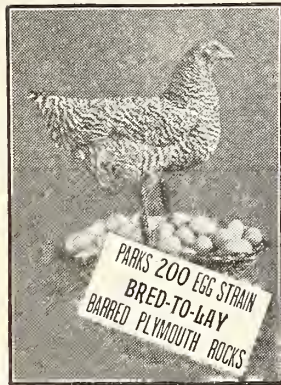
LICECIL will do the same good work on your plant. Price—delivered—1 bottle, 75c; 3 bottles, \$2. Order now—adopt the better way. Circular free. Address nearest office.

LICECIL MANUFACTURING COMPANY

BOX 35, QUINCY, ILL.

BOX 35, GERMANTOWN, PHILA., PA.

Where the Battle Is Thickest, There You Find Parks' Bred-To-Lay Barred Rocks Victorious



Winning the Blue on Eggs, Utility Pens and Exhibition Stock at Johnstown, Pa., State Show, Harrisburg, National Show, Washington, D. C. and Rochester, N. Y.

Since 1889 they have been establishing their great reputation as high normal layers, and their laying qualities are bred in the bone. They are America's Oldest Laying Strain. They easily out-layed the 2600 birds in the five Missouri Laying Contests, officially making them America's Greatest Layers, as these contests were made up of the best layers from 37 states and eight foreign countries. Also winners of the Three Silver Cups for Heaviest Winter Laying—December, January and February. After all it's really the winter laying that counts. The sparrows lay in summer. You've read our advertisements longer than any other bred-to-lay breeders. That hundreds with broader laying claims than ours should come and go seems strange. Yes, Parks' Rocks are now being fed by the third generation of Joes. High normal laying is our stronghold. A flock of 128 averaged 208 eggs in a year. In phenomenal laying they have records up to 290 eggs and the greatest sworn continuous laying record of 148 eggs in 148 days was made by a Parks' Rock.

EGGS Scientifically Packed

CHICKS That Live

Large copyrighted catalog tells all about their breeding, laying contest winnings and customers sayings since 1889. With general utility comments and gossip. It's a dime.

J. W. PARKS

BOX J, ALTOONA, PA.

Partridge Rocks

Send a stamp for either Partridge Rock or Turkey Catalog.

Bronze Turkeys

Again They Win at Madison Square Garden

Where the cream of the highest class fowls of the nation come, in the great preeminent show, Bird Brothers again demonstrate the superiority of their strains by winning as follows:

Partridge Plymouth Rocks 1-2 cock; 1-2 hen; 1-2-3 cockerel; 1-3 pullet; 1 pen. | **Bronze Turkeys** 1-2 cock; 1-2 hen; 1-2-3 cockerel; 1-2-3 pullet.

EGGS, SHOW AND BREEDING STOCK

BIRD BROTHERS

Box "C"

MEYERSDALE, PA.



Fashion Plate Buffs

We have the finest lot of birds mated that we ever owned—this means much to you. \$15 eggs for \$10, \$10 eggs for \$5, \$5 eggs for \$3 per setting of 15; 50 from well mated yards, \$8, 100, \$15. Order direct from this ad. Catalog Free.

A. E. MARTZ Buff Orpington Specialist and Judge Box A, ARCADIA, IND.

Poultry Patents Pay

Your invention if protected and developed may bring big returns. I make a specialty of poultry patents. Submit drawings or model. New booklet, "Pointers about Patents," free on request.

LESTER L. SARGENT
524 Tenth Street
WASHINGTON - D. C.

POULTRY BANDS
Pigeon Bands—Nest Tags

All goods guaranteed to be just as represented.

ALUMINUM BANDS with raised figures, price postpaid, 10-15c, 25-35c, 50-55c, 100-60c.

COLORED CELLULOID, with Aluminum Back. Any color, two large black numbers in each band; price 12-30c, 25-50c, 50-90c, 100-\$1.65.

Please do not send postage stamps

The National Poultry Band Co.
Send for Catalog, NEWPORT, KY.



BURN OIL

The Universal wickless oil burner makes any coal-burning colony brooder or incubator heater a perfect oil burner. Fits any size stove. Instantly installed; no changes necessary.

UNIVERSAL MFG. CO. Harrisonburg, Virginia

ROCKDALE Better Bred for 17 YEARS Wh. Plymouth Rocks

Cockerels and Pullets. A few very nice ones still for sale at reasonable prices. Satisfaction guaranteed. Eggs for Hatching—\$2.50 to \$5.00 per setting. No baby chicks.

DEYOE'S Station 1 DODGEVILLE, WIS.

DON'T FEED MOLDY CORN TO HENS.

Warning by Frank L. Platt, Extension Poultry Husbandman, U. S. Department of Agriculture, Urbana, Ills.

"Aspergillus" is the name of a disease that is fatal to chickens, and is the result of feeding moldy grain.

The condition of the corn crop this year makes it especially important that the farmers and poultry keepers should protect their chickens by giving them as sound and sweet corn as possible.

There is no practical cure for this disease. As the disease develops there is fever, diarrhoea, dropping wings, great depression, suffocation and death. The symptoms are similar to those of tuberculosis, and aspergillus and tuberculosis are both cases of what practical poultrymen often term "going light."

The spores of aspergillus are usually introduced by moldy grain or feeding the grain in moldy litters of straw. The fungus most frequently develops in the respiratory system, mouth and lungs.

One way to safe-guard the flock against this serious disease is to start in the beginning to take the common means of prevention, which at the present time amounts merely to feeding sound, sweet grain. Moldy corn is of particular danger at this time.

Day-Old Chicks by Parcel Post.

On March 8, 1918, an order was issued by the Postmaster-General to the effect that on and after March 15, 1918, day-old chicks would be admitted to the mails. They must be properly packed, and will be accepted only to points where delivery can be made within seventy-two hours, without insurance or C. O. D. privileges.

This order will, without doubt, be of great benefit to the day-old chick industry, and will, we believe, cause the express companies to give more consideration to wants and desires of those

Blatchford's MILK MASH



The complete milk equal for baby chicks.

It's all in the start—start right!

Blatchford's Milk Mash should be every chick's first feed and kept before them constantly until they are three months old.

Save the baby chicks

Push the little chicks forward with a sturdy, natural growth and you will avoid all loss from bowel trouble, leg weakness or white diarrhea.

Blatchford's Milk Mash will do it.

It contains milk, milk substitutes, meat and grains prepared for easy digestion and is the best starting, growing and developing food obtainable.

Grows, matures or fattens

Sold in 100- and 25-lb. bags by progressive feed dealers everywhere.



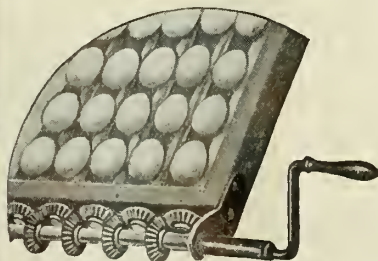
2 1/4 lbs. in 8 weeks!

Manufactured only by
BLATCHFORD
CALF MEAL COMPANY
Dept. A Waukegan, Illinois

ROLLER TRAY INCUBATOR

Endorsed by Most Responsible Authorities

60-100-150 and 200 Egg Sizes



A Turn of Crank Turns Every Egg

All incubators delivered by express. Superior construction. Write for catalogue and testimonials.

ROLLER TRAY INCUBATOR CO.
Grant Avenue Nutley, N. J.



Day-Old Chicks By Parcel Post

AND DUCKLINGS DIRECT TO YOUR HOME

We Furnish Pure Bred Chicks, and of the Finest Quality

We ship only big, strong, healthy BABY CHICKS THAT LIVE, hatched from healthy, vigorous stock. Some fifteen varieties of Poultry raised on different farms. Our WHITE and FAWN and our WHITE INDIAN RUNNER DUCKLINGS are of the best producing strains. We also do Custom Hatching. Write for our FREE ILLUSTRATED CATALOG at once, as this may not appear again; address

J. W. OSSEGE HATCHERY

Dept. 6

GLANDORF, OHIO



Yesterlaid
are money hens

Profit is fixed in the blood of Yesterlaid Leghorns. Their eggs are big and white. Yesterlaid are far superior to average hens—they lay better in Winter and cost less to feed. Three Yesterlaid can be raised at the cost of two ordinary chickens because they are so vigorous and quick growing. Valuable details free.



Lady Romney 180 Eggs

YESTERLAID EGG FARMS COMPANY, Dept. 5, PACIFIC, MO

**SPRAGUE'S
RED EGGS**

The Oldest RHODE ISLAND RED YARDS in the West
Quality Right. Prices Reasonable. Red Book Free
P. H. SPRAGUE - MAYWOOD, ILL.

Madison Square Winners 1917-1918
S. C. Brown Leghorns

I have a few good cocks, hens, cockerels and pullets for sale from \$5 up.

EGGS FOR HATCHING
Also a few prize-winning Indian Runner and Buff Orpington ducks. Write for mating list and catalog.

REV. J. G. TAYLOR 302 Park St. Chatham, Ont., Canada

Boston Chief

2nd and color special Barred Rock cockerel, Boston, and 1st Worcester cockerel, was hatched from a setting of eggs from our yards; \$100 was offered for him at Boston Show. Our 1918 breeding yards are headed by our 1st prize Boston winners; they are stronger than ever. If you want hatching eggs that will produce winners for the largest shows, write us today.

W. W. CARPENTER, East Providence, R. I.

Exhibition R. C. Reds

Nichols' strain. Eggs, \$2.25 per 15. Write for description. TIP MILLS, RED KEY, IND.

engaged in this important branch of the poultry industry.

Mr. Herbert H. Knapp, President International Baby Chick Association, has been untiring in his efforts to get this order thru and is certainly to be congratulated upon the success obtained.

FACE THE TRUTH AND WIN.

In mapping out a campaign, the successful militarist or business man does not worry much over what he shall do in case success crowns his efforts, but he does spend a great deal of time figuring out just what he shall do in case of blockades or difficult situations. By being alert to the possibility of failure he is thus able to successfully combat defeat and win the day.

Napoleon, the most famous militarist of modern times because he was able to transform apparent defeat into success, lived by a rule which many poultrymen would do well to follow. In instructions to his secretary, he said, "Do not bother me when you have any good news to communicate; with that there is no hurry. But when you bring bad news, rouse me instantly, for then there is not a moment to be lost."

Here we have it in a nutshell. In a critical time, good news will keep but when there is anything in the nature of disaster to cope with, not a moment is to be lost. Here is a motto which the poultry press might advantageously take to heart.

Whitewashing conditions in the poultry world just at this time is unfortunate. Bitter pills are not more easily taken by being concealed in chocolate bonbons. They spoil the bonbon and

Collins Poultry EXERCISER and FEEDER

No more wasting high-priced grain; no over-fat, non-laying hens. Rat and bird proof. Attach to leaky metal or wooden pail or tub—you have the best feeder buyable. Only 50c with Sprouter; alone, add 10c for parcels post.



Collins Oat Sprouter

increases egg production; promotes vigorous growth of baby chicks. All metal, fireless, sectional.

Popular size, 8 pans, 11x15..... \$4
Back Yard Flock, 5 pans, 11x15..... 3
Big Breeders, 8 pans, 11x32..... 8
Prepaid, add 50c west of Miss River; \$1 W. of Rockies
Order Sprouter and Feeder today; use 10 days. If not all you expected, return and I'll refund money.

W. H. COLLINS, 206 Harrison St., New York

IMPERIAL "RINGLET" Barred Plymouth Rocks and Mammoth Light Brahmas



Both Matings in Rocks
Pullet Mating..... Eggs \$3 per 15
Cockerel " \$4 " 15
Brahma..... " \$3 " 15
Satisfaction guaranteed. Circular free.

Lackawanna Poultry Farm
North Water Gap Pennsylvania

POULTRY ITEM'S SPECIAL GET-ACQUAINTED OFFER

3 months for 10c for the largest and best poultry magazine in the East. March issue, 100 pages, about worth dollars to you. Regular newsstand price 10 cents single copy. Don't miss this chance to learn how to grow poultry profitably. Send dime today.
POULTRY ITEM, Box A, Sellersville, Pa.
Where the Rooster Crows the Item Goes!



Artistic Homes

—a 1000-page plan book, \$1
All home-loving home-building people need it in their library for style, guide and economy in building. 2000 plans and designs. We sell ready-cut houses.
Herbert C. Chivers, Architect,
Ry. Ex., St. Louis, Mo.



Mention the American Poultry Journal when writing to advertisers.

"A Chick in the Hand is Worth Three in the Shell"

You can buy Chicks this season from the ORIGINAL
SCRANTON S. C. REDS



In response to popular demand and in line with our desire to give our customers fullest measure of satisfaction, we shall offer for the season of 1918 day-old chicks, as well as eggs from twenty superb matings—a real line-bred flock—winners in America's leading shows—producing each year outstanding quality in type, color, size, vigor and laying ability.

CHICKS—\$12 to \$35 per twenty-five, \$20 to \$60 per fifty, \$35 to \$75 per hundred. Ready to start growing lustily and become richly colored exhibition and useful Reds.

EGGS—\$3, \$5 and \$10 per fifteen, \$6, \$8 and \$18 per thirty, \$10, \$15 and \$30 per fifty, \$18 and \$25 per hundred. Everyone guaranteed new-laid and fertile, clears replaced, and if you wish to do your own hatching the surest promise of your ultimate satisfaction.

Our "Red Quills," the original Scranton S. C. Reds, are generally conceded to be the strain that most nearly approaches the desired combination of type, color, size, quick growth and laying ability. A prominent eastern fancier and pioneer breeder of Reds said of them: "It is the one truly line-bred strain in America." Why not stamp these qualities and the ability to reproduce them on your flock? Get your winners the way the other fellow gets his. Take advantage of the world-wide fame of these original Scranton Reds to get your share of the best sales.

Send today for baby chick and egg circular. Better still, get your order booked now direct from this ad and insure prompt and early delivery.

Remember, only the best wins. There is but one best. Get the "Red Quills" original Scranton S. C. Reds and be convinced.

RAU and FRY Route P Box 333-A INDIANAPOLIS, IND.

ROSE COMB TOMPKINS' RHODE ISLAND REDS SINGLE COMB

Make a record win at Madison Square Garden, 1918. 6 first prizes out of a possible 10, including all firsts on cockerels, pullets and pens in both Single and Rose Combs. Best display of Reds in both combs and President's trophy for best display of Reds.

Large stock of fine breeding and show birds to fit any pen or show room, and prices always reasonable. Write your wants fully to

HAROLD TOMPKINS - Box A - CONCORD, MASSACHUSETTS

RUDY'S Perfection White WYANDOTTES

leave the pill in the mouth. No one is fooled but everyone feels duped.

Being alive to the difficulties which confront them is the only way in which poultrymen can weather the storm. Let us not be afraid to face the truth. The difficulties can be put to rout if we have the courage to face the facts. No battle was ever won by patting oneself on the back and refusing to recognize possible disaster, while turning over to take another nap. Every poultrykeeper should be on the alert and quick to note possibility of disaster, for only in this way is he master of the situation. Napoleon only lost when he refused to face the truth.

NEW LIBERTY BONDS.

Knowing that the readers of AMERICAN POULTRY JOURNAL are interested in the new issue of Liberty Bonds and are anxious to do their part towards winning the war, we publish herewith a letter recently received by Mr. Frank B. White, Managing Director of the Agricultural Publishers' Association, from President Wilson:

The White House
Washington, March 8, 1918.

My dear Mr. White:

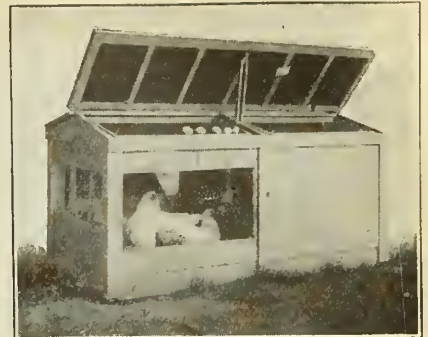
I am very much gratified that you are putting yourself so wholeheartedly back of the new Liberty Loan, and I am glad to send you this word of congratulation. To my own mind, these Loans present themselves as the best possible opportunity to demonstrate the unity,

vigor, and power of the nation in a struggle into which it has entered to sustain its own liberties and the liberties of the world. I cannot imagine a cause more fundamental or more sacred, and I have every confidence that the people of the United States, of all ages and occupations, will give their utmost resources to the Government to support it in this time of supreme crisis. The right must once for all be made triumphant and permanent.

Sincerely yours,
Woodrow Wilson.

The Best Method of Raising Young Chicks.

An egg that is fit for human consumption, if it is fertile and is incubated, will develop in the short period of 21 days into an active, living thing—a baby chick. In order to do this, a wonderful and rapid transformation must take place. The mistakes that are made from the day the egg starts to develop until it is laid and hatched, and the chick is about two months old is the most vital period in its whole existence, even if it should live to be ten years old. This covers a period of only a little more than three months, but the things which are done by a poultryman during these few days, are the things which lay the foundation for his success or failure for the coming year and perhaps for many years to come. You can trace any failure to its ultimate beginning, and you will find that it started with the egg in the breeding stock, during incubation, or during the



Ready-Built Philo System POULTRY HOUSES

Save Time and Money

AS WELL as provide the best possible conditions for the fowls. A trial side by side with old style houses will prove that fowls in the Philo System Coops will mature more quickly, gain more pounds at less cost, lay more eggs, and are freer from disease. Coops come ready to set up; built in complete sections that are quickly screwed together. Cost less than to build old style houses. Sizes from six to 25 hens. Prices \$8.00 to \$35.00.

Send for Free Illustrated Catalog

CYCLE HATCHER COMPANY
1800 Lake Street Elmira, New York
Also manufacturers of the "CYCLE" HATCHER, the best 50-egg all metal, fire-proof incubator. Price \$7.00.



"Superior Strain" Columbian Wyandottes

First Prize Winners, Madison Sq. Garden, '18, Chicago Coliseum, '17-'18

My recent winnings at these largest shows in America are conclusive proof that my strain has everything desired in this beautiful breed. I have also improved the egg production and have individual records well over the 200 mark. As my strains have been bred that way for years, it stands to reason that this quality is inherited by the progeny. My pens are mated and contain the best birds in the United States.

STOCK AND EGGS FOR HATCHING

from the finest matings in the country are now offered to those desiring fowls that are "profit producers." I have just added the entire flock of Columbian Wyandottes of the Wilburtha Farms, Trenton Junction, N. J. All their winners are in my yards. This magnificent strain added to my own gives me the largest and best flock of Columbian Wyandottes in the country.

The Quality is Exceptionally Good. The Prices I Ask Extremely Reasonable.

Send for my free catalog and mating list giving full information.

J. W. GARVEY

Box A

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Champion at Boston, 1917

Hayward's White Plymouth Rocks Are Fashion Plates of White Rockdom

They are noted for superb balance and finish, possessing a distinctive type which appeals strongly to all. As prize winners they have demonstrated their superiority by decisive victories over all competitors at Boston in 1916 and 1917, winning Champion Male and Best Display both times in extra strong competition. Hayward's White Rocks have also won for customers this season at Boston, Madison Square, Montreal and other important shows, proving that the quality of the stock is high and that my customers' interests are well served. May I not have opportunity to serve you? Stock and eggs for sale at reasonable prices. Complete satisfaction guaranteed always. Illustrated booklet free.

W. F. HAYWARD

Box C

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SUNSWICK S. C. BUFF ORPINGTONS

won at the 1917-18 Madison Square Garden Show, 2d, 3d and 5th Cock; 1st, 3d and 4th Cockerel; 2d, 3d and 5th Pullet and 5th Pen. Think what chicks from such Birds would do for your flock.

HATCHING EGGS

\$5, \$10 and \$20 per setting. \$20 per 100 Eggs. 75% fertility guaranteed.

Sunswick Poultry Farm

BABY CHICKS

50c, each for fine, sturdy youngsters. Safe arrival guaranteed.

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BREEDING BIRDS

\$5 and up. Tell us your needs and we will give you personal service in selection.

South Plainfield, N. J.



THIRD PRIZE COCK



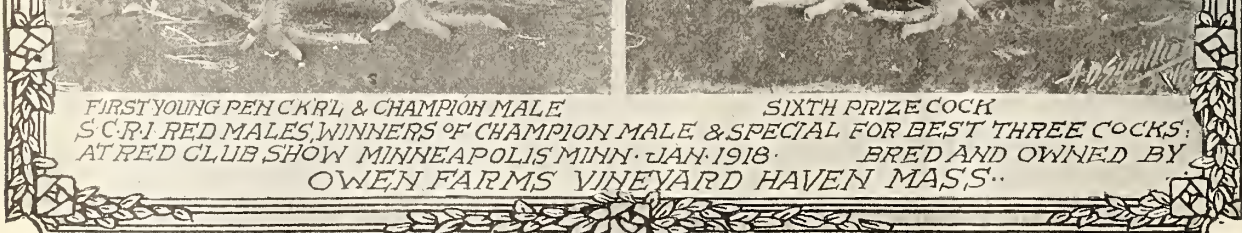
SECOND PRIZE COCK



FIRST YOUNG PEN CKRL & CHAMPION MALE
 S C R I RED MALES, WINNERS OF CHAMPION MALE & SPECIAL FOR BEST THREE COCKS.
 AT RED CLUB SHOW MINNEAPOLIS MINN. JAN. 1918. BRED AND OWNED BY
 OWEN FARMS VINEYARD HAVEN MAS.S.



SIXTH PRIZE COCK



first few days of feeding and brooding the young chicks. Why poultry raisers will drift along and suffer loss of high priced eggs, death in the shell, death from white diarrhoea, loss from improper feeding, loss from wrong methods of brooding and similar mistakes, is more than we can understand, especially when it is just as easy and less expensive to do the right thing.

Some poultry raisers seldom ever lose an egg or a chick. They make money from their flock, while others right by the side of them fail. If anybody else can raise a fine flock of Standard bred chickens in 1918, you can do the same. The secret of success lies only in the use of the right methods.

One of America's greatest poultry experts was born on a Missouri farm. His father died when he was a small boy and he took up poultry raising. His relatives threatened to disinherit him if he did not give it up. His friends said he was wasting his time and money. He stuck to it in spite of every sort of discouragement. He studied, experimented, and applied his knowledge. He succeeded in raising more poultry and better poultry than anyone in his neighborhood or his state. Poultrymen recognized his ability and later on he became Director of the Missouri State Poultry Experiment Station. He has filled many positions of prominence in his own state and in national organizations. We believe that it can be safely said that "Tom" Quisenberry is today sending out helpful advice to more poultry raisers, in more states and in more countries than any other one poultry authority in the world.

He has just issued a bulletin on feeding the baby chicks, the layers and breeding stock, also a book on poultry raising which he offers to send free to every one of our readers. If you will write the

American School of Poultry Husbandry, Box 206, Leavenworth, Kan., and ask for a copy of Prof. Quisenberry's latest

book on poultry, they will be glad to send you a copy at no cost to you whatever.—Adv.

Two Dollars is a small amount to pay to insure your valuable settings

Thousands of eggs are lost daily thru various shocks to your incubator caused by rumbling auto trucks, road dragging, thunder storms, blasting, heavy shooting, gas engines, railroad trains, stamping of horses, etc. These are only a small percentage of the shocks and jars that prove disastrous and costly to many a poultry raiser and which are charged to faulty incubator construction. Our

Incubator Shock Absorbers

have solved the problem. After long and costly experimenting we have perfected a SHOCK ABSORBER for incubators which can be easily attached in a minute's time. They absolutely protect you against losses from shock and a set of these inexpensive appliances on each of your incubators may be the means of saving you much time and money. **YOUR HATCH IS IN DANGER OF BEING RUINED RIGHT NOW.** Don't delay—order today. *When ordering, specify capacity of your incubator.*

Complete outfit for one incubator, \$2 prepaid

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THE STABILIZER CO., 4838 Prairie Ave., Chicago, Ill.

HOUSTONIA SUSSEX WIN AGAIN

at American Egg Laying Contest, Leavenworth, Kansas

First honors on pen, tie for first, second and third individual record for February. Our pens stand second for the four months. Uncle Sam will deliver; we will supply baby chicks, as well as eggs for hatching. Book your order at once. See our ad on page 461.

RED SUSSEX LIGHT SUSSEX

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MAPLESIDE BRED-TO-LAY

BARRED PLYMOUTH ROCKS

Are Known the World Over

They have gone to South Africa, Australia, Hawaiian Islands, Alaska, Canada and Mexico. Why not to you?

EGGS

\$2.....per 15; \$3.50.....per 30.
\$5.....per 50; \$10.....per 100.
Extra Selects—\$3. per 15; \$5. per 30.
Day old chix. Circular free.

O. F. MITTENDORFF Box F LINCOLN, ILLINOIS



MAJESTIC BUFF ORPINGTONS

CHEAPEST STOCK ALL SOLD. A FEW GOOD COCKERELS LEFT AT \$10.00 EACH, REGARDLESS OF FORMER VALUE

Sold C. O. D. and express paid if returned unsatisfactory. Am prepared to fill your wants in chicks and eggs if you order promptly. SEND FOR YOUR COPY OF THE 1918 BUFF ORPINGTON GUIDE BOOK, free. Describes 21 special matings, is fully illustrated, gives prices on stock, eggs and chicks and much valuable information. REMEMBER WE WON GOLD MEDAL FOR BEST DISPLAY AT THE RECENT CHICAGO SHOW AND WE HAVEN'T A DISSATISFIED CUSTOMER IN THE WORLD.

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HIGHEST PEDIGREE

LAYERS IN THE WORLD

WE HAVE THE GREATEST NUMBER OF OFFICIAL 200 EGG HENS OF ANY FARM IN AMERICA

NOTE—I have absolutely the greatest collection of official high record hens and pens of any farm in America. I only do pedigree work and you are assured that you get what you buy. If you want contest winners, profitable commercial poultry and cockerels that improve, come to me. MY RECORDS—Wyandottes, 282, 274, 272, 253, 252. Leghorns, "Lady Storr's" 287; others, 284 to 252. Reds, 273, 247, 243. Buff Rocks, 280, 272; 265, 263—and all official.

MORRIS FARM

R. 4

BRIDGEPORT, CONN.

EGGS BUFF PLYMOUTH ROCKS STOCK

The Old Reliable Breed for Eggs and Meat. They Lay, Weigh and Pay.

WINNINGS: Chicago Coliseum, 1917, 1st cock, 1st young pen, 2nd and 3rd pullet, 3rd cockerel, 3rd hen. Boston Quality Show, 1918, 1st pen, 1st, 2nd and 5th cockerel, 1st, 2nd and 4th pullet, 3rd, 4th and 6th hen, 1st cock. Championship Male, Championship Female and Best Display.

EGGS FOR HATCHING, \$5 PER 15. 25 choice breeding cockerels and pullets for sale, \$5 to \$25.

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CHARLES WEEKS is a born and bred *poultryman* and has the true love of nature in his heart. He believes that the natural life of man is out in the fresh air "with his head in the clouds and his feet in the soil." For fifteen years he has been evolving and perfecting a system of intensified cultivation of the soil, and at last has proven beyond the wildest dreams that the best living can be had from a little land well worked with poultry for income.



The Chas. Weeks' System, the Largest Intensive Poultry Plant in the World.

WRITE FOR CATALOGUE AND ILLUSTRATED LITERATURE

A New Poultry Book Written by

Chas. Weeks

Palo Alto, California

giving his

Fifteen Years' Experience

in

**Producing Market Eggs
In California**

THIS book covers every phase of egg farming and is a revelation in intensified poultry culture. 4500 hens housed on one acre and made to earn \$2.00 each per year.

This book is especially interesting to those who wish to come to the Golden State of California to live and take up some work whereby they can earn a living.

**Price of Book, Including
Blue Print Working Plans,**

\$2.00

CHAS. WEEKS

PALO ALTO, CALIFORNIA

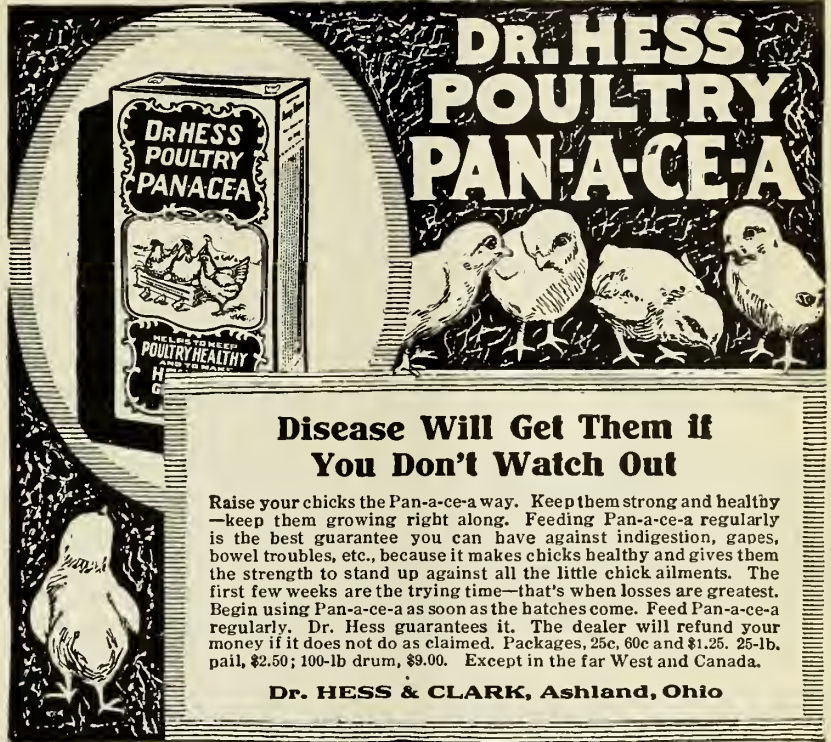
WHY I BREED BUTTERCUPS.

By CHAS. J. LIEBER.

BEING a reader of AMERICAN POULTRY JOURNAL and seeing a great many articles in its columns as to why this one and that one breed their particular kind of fowl and in all of those articles I have not seen anyone say why they breed the Buttercups, I thought I would, in my meager way, tell why I breed Buttercups and why I have stuck to them thru thick and thin.

Being brought up on a farm (a very small one) in a village where farming is the principal business, I spent a great deal of my time in working for different farmers and always took a great fancy to the poultry they had, especially if it was all of one kind and color, but, as most every one knows, farmers used to, more than now, keep all kinds and colors, and they did not appeal to me as much as they would if they had been alike; but one day I was invited to take a long ride thru the country and in making that trip I saw some thorobred birds, and made up my mind that if I ever kept any poultry they would be thorobreds. This idea never got out of my head, but steadily kept growing, until in the spring of 1913 I got the fever so bad that I made up my mind to start, but had not decided upon the breed I would keep, altho at that time the S. C. W. Leghorn was my preference.

After reading the poultry journals and seeing what different breeds were lauded to the skies by their champions, I made up my mind that I would take no one's word but would try out four breeds and satisfy myself, then if I got "stung" I would have no one to blame but myself and so begin to pick out the breeds I wanted to try out and it did not take me long to decide on the first three which were my favorites. I will give them in the order that they appealed to me: First, S. C. W. Leghorn; second, R. C. R. I. Red, and third, the W. F. B. Spanish, and now came the sticker, the fourth choice, but I was not long in deciding, as one evening I was reading a poultry journal and in its advertisements I noticed an ad. offering Buttercup eggs for sale and the name took my fancy, as I had never heard of them before, so I made my fourth choice, and which proved to be my best. I at once wrote the party that I saw their ad. in such a paper and would be glad to have them send their prices of eggs and any other interesting dope they might be able to furnish. In due course of time I received an answer in which they almost said that Buttercups would practically live and lay eggs without any feed or care. This kind of claim sort of put a damper on me, but still I could not give up the idea of wanting to try them out and so kept looking until one day I saw an ad. of a local man who advertised Buttercup eggs for sale and it being only 12 miles from me I made up my mind that I would see what they looked like. The next morning I started for his place and upon arriving and telling him what I was there for he took me out to his hen-house to show me the stock and I can candidly say that the first thought that entered my mind when the door was opened and I got my first look at Buttercups was that it was the prettiest bunch of fowls that I had ever seen in my life. I made up my mind then and there that I would have some of them, if



DR. HESS POULTRY PAN-A-CE-A

Disease Will Get Them if You Don't Watch Out

Raise your chicks the Pan-a-ce-a way. Keep them strong and healthy—keep them growing right along. Feeding Pan-a-ce-a regularly is the best guarantee you can have against indigestion, gapes, bowel troubles, etc., because it makes chicks healthy and gives them the strength to stand up against all the little chick ailments. The first few weeks are the trying time—that's when losses are greatest. Begin using Pan-a-ce-a as soon as the hatches come. Feed Pan-a-ce-a regularly. Dr. Hess guarantees it. The dealer will refund your money if it does not do as claimed. Packages, 25c, 60c and \$1.25. 25-lb. pail, \$2.50; 100-lb drum, \$9.00. Except in the far West and Canada.

Dr. HESS & CLARK, Ashland, Ohio

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Runways	Portable Henneries
Trap Nests	Fireless Brooders
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Write for Our Free Catalog of these coops, nests and many other articles. You will save money and get the best.



Trap Nest

Niemann Bros. Mfg. Co., Box 677 Mt. Olive, Illinois

IF WE ARE GOING TO BE PATRIOTIC Why Not Start Something?



I have 50 Buff Orpington females as good as the one in this ad. now in my breeding pens. They are on big runs with plenty of blue grass and fish worms. They are laying eggs that will hatch, and for 60 days I will make you a war time price on eggs for hatching. **30 Eggs, \$6; 100 Eggs, \$18.** If you want to start now with the best breed that ever wore feathers, here is your chance. This is just about 1/3 the value of eggs and remember, they are from the Indianapolis winners. Now is your chance, order from this ad. and do it today.

THEO. HEWES 2051 Hillside Avenue INDIANAPOLIS, IND.

Moeller's SINGLE COMB Brown Leghorns

again win 12 prizes at the 1917 Chicago Coliseum Show



in hot competition—this with previous winnings at the Coliseum and Indianapolis, Columbus and Milwaukee winnings is ample proof that my "Browns" rank among the best in the country. A choice flock of cockerels (either light or dark mating) for sale at \$5.50, \$8.00 and \$10.00 each; also 50 choice hens at \$3.00, \$5.00 and \$7.50 each. Eggs from six grand matings after February 15th. Write for mating list

H. F. Moeller - Box 137B - La Porte, Ind.

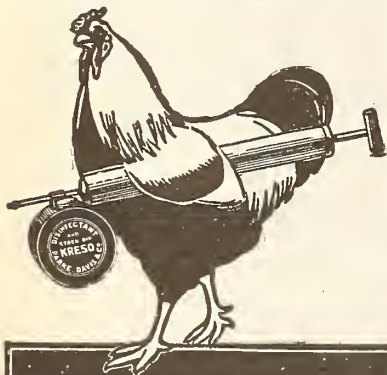
BUFF ROCKS

Madison Square Garden, N. Y. Palace, Chicago, Kansas Grove laid 229 and 201 eggs each. Get my catalog.

Won Every First Prize Offered at Kansas City Show. Pronounced by Judge Drevenstedt best class he ever saw. Cocks, 1, 2, 3, 4, 5; Hens, 1, 4; Cockerels, 1, 2, 3, 4, 5, 6; Pullets, 1, 2, 4; Old Pen, 1; Young Pen, 1; Best Display in entire show. First Prize winners at City, World's Fair. Two pullets at Mountain

C. R. BAKER Box A ABILENE, KANSAS

POULTRY
MUST HELP
FEED THE NATION



KRESO DIP No. 1.

A SANITARY NECESSITY
IN RAISING

HEALTHY POULTRY

KILLS LICE AND MITES.
WILL HELP STOP LOSS FROM DISEASE.

One Gallon
Makes 72 Gallons

of Solution ready for use.

EQUALLY GOOD FOR ALL LIVE STOCK.

Write for Free Descriptive Booklets on
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ANIMAL INDUSTRY DEPARTMENT OF
PARKE, DAVIS & CO.
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"Whatglen"

Single Comb

Black Minorcas

have no superiors in the show room or for utility purposes. Our pens are now mated and are the best we have ever owned.

Stock for Sale
Eggs for Hatching

from our best matings at most reasonable prices. Write for our free catalog, the finest ever issued in the interests of Black Minorcas.

WHATGLEN FARM
FRANK McGRANN, Prop., Box A. Lancaster, Pa.

Baby Chicks

Barred and White Rocks, R. I. Reds, Buff Orpingtons, Brown and White Leghorns.

Good sized healthy chicks from good utility range, and full count, and safe delivery guaranteed.

For further information and prices write

The Greentown Hatchery

CHAS. WARE, Prop. Greentown, Ind.

it was a possible thing to get them. Upon asking him what he would take for the bunch was told that they were not for sale, but that he would sell me some eggs if I wanted them and, believe me, I was not long in bargaining for three settings, but was disappointed when he told me that I would have to wait a few days, as he had three orders to fill, and then I would be next, but I told him to send them when he could.

Now to take you back to the other breeds. I sent to I. F. Rice, of Cortland, and got 30 Leghorn eggs and to another man, who claimed he had Tompkins' strain of Reds, and got 30 of them, and sent to Minnesota and got 30 Spanish eggs. I set them all under hens and when my Buttercup eggs came, the others were all hatched out and I had the following number of chicks: 23 Leghorns, 29 Reds, 12 Spanish.

Well, the man sent me one setting of Buttercups the 3rd day of June and I put them under a hen that night and the other settings (two) came the 13th and 20th of June, and they were likewise put under hens and started on their road to producing chicks. I was anxiously waiting to see what the Buttercup eggs would bring forth and on the morning of the 24th day of June I went to the barn (I had no hen-house at this time) and took the hen off and lo and behold what a beautiful sight met my eyes. There were 14 of the prettiest, plumpest and downiest little chicks that I had ever seen.

On the 4th and 11th of July, respectively, the other hens hatched, and while they did not do as well as the first one did, still they brought out twenty-two more of these little fellows. This made me 99 chicks in all and I succeeded in raising 93 out of the lot. At this time the Leghorns were nearly six weeks old, the Reds about four and the Spanish about three and all were healthy and growing fine, but in my daily care of them I noticed that the Buttercups were not eating as much at the same age as the others had and so thought I would keep a very close watch and see if I could find out the cause and in due course of time I found out the reason, which was this, while the Buttercups were out hunting for bugs and worms and filling themselves with these, the others were lying in the shade or else sunning themselves and the result was that the Buttercups had picked their dinner and the others waited until they were fed.

They all continued to grow and thrive and as soon as they were old enough to tell their sex I separated the cockerels and shut them up and in this way I found that I had as follows: Pullets, 12 Leghorns, 12 Reds, 4 Spanish and 21 Buttercups; cockerels, 9 Leghorns, 17 Reds, 5 Spanish and 14 Buttercups.

I let all the pullets run on free range until the middle of November, when I separated them and put them in their winter quarters, each breed by itself, and got ready for my testing, but was called away and so did not get a satisfactory test, but was getting a good egg yield from all, but I thought the Buttercups were doing a little the best, considering their age, and on April 4th, 1914, I got 18 eggs from the 21 Buttercup pullets that were hatched in June and July.

Well, I had the show fever, so in December I entered a young pen, 2 cockerels and 2 pullets, in the Syracuse show

STILES' COLORED
Leg Bands

FOR BABY CHICKS

Growing stock, layers and breeders. Necessary on every poultry plant, whether large or small. Red, white, blue, green, black and yellow. Mention variety when ordering.

SPECIAL BRAND—Single coil. Made of lighter material and have less lap than Economy brand. 25 for 25c; 50-45c; 100-75c; 250-\$1.70; 500-\$2.75, postpaid.

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THE VICTOR BAND
Large printed numbers, bright clear colors—Red, white, blue, green, yellow. Made of celluloid and aluminum. Adjustable. 12 for 35c; 25-65c; 50-\$1.25; 100-\$2.25; 200-\$4.00. **Victor Sealed Band**—12 for 40c; 25-75c; 50-\$1.50; 100-\$2.75. Pliers 60 cents.

ALUMINUM BANDS

THE CAPITAL BAND
Has raised figures. Adjustable, strong, smooth edges. 12-15c, 25-25c, 50-40c, 100-65c, 250-\$1.50, 500-\$2.75, 1000-\$5.25.

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Poultry Cuts New designs, a complete line. Catalog Sent Free.
Poultry Punch, Price 25 cents.

CHAS. L. STILES

Department 6 COLUMBUS, OHIO

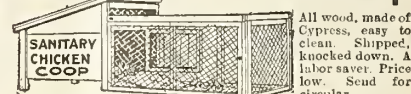
S. C. W. Leghorn
and White Rock

EGGS for HATCHING
AND BABY CHICKS

from America's greatest layers. Trapnest records of 200 to 264 eggs guaranteed. This is not a hatchery, but a real poultry farm and we own and know every fowl and the record and condition of it. Vigor, vitality, full count, safe arrival and absolute satisfaction guaranteed. 40,000 chix for 1918. Orders being booked every day for April, May, June and July deliveries. Order now if you want to get in on this wonderful bargain. Prices—Eggs, \$6 to \$9 per 100. Chix, \$12 to \$18 per 100. Write for free catalog today.

MAPLESIDE POULTRY FARM
U. A. Christensen, Prop. Lost Nation, Iowa

Sanitary Chicken Coop



All wood, made of Cypress, easy to clean. Shipped, knocked down. A labor saver. Price low. Send for circular.

SANITARY CHICKEN COOP CO.
GREENFIELD Box A INDIANA

POULTRY BOOK Latest and best yet; 144 pages, 215 beautiful pictures and color plates. Hatching, rearing, feeding and disease information; describes the busy Poultry Farm handling 58 varieties including Indian Runners. Tells how to properly choose fowls, eggs, incubators, and secure cheap feed. This practical book worth dollars mailed for 10 cents.
Berry's Poultry Farm, Box 116, Clarinda, Iowa

and succeeded in winning 2nd pen and 2nd pullet, in keen competition with a good large class, and I made up my mind that Buttercups were show birds as well as layers.

As I was not thoroly satisfied yet that they were the best, I decided to test them still more, and give a thoro test this time, so in the fall of 1914 I built another house containing four pens, three of them being 6x20 ft. and one 8x20 ft.

I got them into the house the last of November and started in to test out proper. I picked out 12 of each breed and one cock for each pen and there were 6 hens and 6 pullets in each breed and under identically the same conditions, with the same feed and care. From December 1 to July 15 the Buttercups outlayed the Leghorns 10 percent and the Reds 12 percent. Therefore, I decided to discard the Reds, but I could not believe but what the Leghorns would equal the Buttercups, at least, so decided to try them out again, and did the next year. With the same kind of a test the next year the Buttercups came out victorious, so the Leghorns had to go.

Now, the reason why I breed Buttercups is because from actual tests I find that they are as good, if not better, layers than any of the egg laying breeds, are heavier, as the cock weighs 6½ pounds, hen 5 pounds; do not require as much feed to give the same results as other breeds; are hardy, rugged and vigorous; eggs are very high in fertility; the chicks mature very quickly and make the best of broilers; eggs will compare in size to any breed, unless it is the Minorca; they are easily confined, as a five-foot fence will keep them very nicely; they are an excellent show bird and are practically a non-sitting breed, in fact as near one as any, and last but not least, are very tame and will make great pets if given half a chance.

Now, dear reader, I am sure that if you will take the same pains in starting with poultry as I did and will give the Buttercup a fair trial that they will prove to your satisfaction that what I have said is true and you will be for them just as strong as any of the breeders who have bred them for years.

Let me say in closing that I do not believe there is a breed of fowls on earth today that will fill the wants of man, be he farmer, poultryman or fancier, in every respect equal to the Buttercup, and to every person who has a back lot in the city let me say, try out a few of these fowls and see if you cannot help out production for your Uncle Samuel who is helping out "over there" for the sake of justice and humanity.

If you are thinking of taking up poultry do not fail to give Buttercups, the coming breed, a trial.



Smith Standard BABY CHICKS

America must grow more poultry this year. We will help by producing nearly

2,000,000 Chicks in 1918

Big, strong, vigorous chicks of unusual utility value and priced extremely low, quality considered. The great volume of business we do makes low prices possible. Our marvelous

Incubator Holds Forty Tons of Eggs

or 666,000, at once! Largest in America—best system of incubation ever devised. The air in the huge egg-chambers is completely renewed every three minutes and moisture furnished by live steam.

We ship any number of chicks. These breeds:

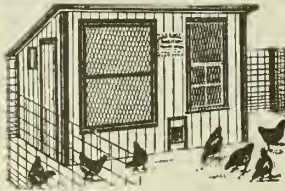
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| Barred Rocks | Black Minorcas |
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Potter "Redybilt" Poultry Houses



A \$39.50 Potter House Portable, open front, fresh air, scratch shed house, equipped with 5-ft. 3-Perch Potter Hennerly Outfit for 30 hens.

Don't Build - It's Cheaper to Buy

An old reliable Potter ready-made henhouse can be purchased for less than it would cost you to build one. They have been used and recommended for over 16 years by thousands of poultry keepers, all over America. A clean sanitary house, nests and roosts mean healthy hens and lots of eggs. Do your part and the hens will do their part.

Roosts, Nests, etc., Ready to Use

For Less Than Cost of Making

Sanitary, portable, inexpensive. You start right when you install Potter outfits—roosts, nests, dross-boards, coops, hoppers, etc. Get rid of makeshift, unsanitary disease-breeding fixtures and make a bigger success of your flock.

Get the Potter Book—it shows over 100 pictures of portable houses, coops, hennerly outfits, etc. Mailed free for two red stamps to cover postage.

POTTER & Co. 56 FOREST AVENUE DOWNERS GROVE, ILL.



A \$6.60 Potter Outfit 6-ft. 3-perch, 10-nest Hennerly Outfit for 30 hens. Same style made in 12 sizes.

S.C.W. Leghorns Light Brahmas Rouen Ducks

A fine lot of cockerels at very reasonable prices. Introduce the best blood into your flock.

A grand lot of birds for sale, both young and old. This grand old breed has both size and productivity.

These beautiful birds are an ornament as well as an asset. They grow like weeds. Finest show specimens.

Hatching Eggs From the Above Varieties

All have free farm range and are well developed. They are all kept on my own farm, under my personal supervision.

C. C. NYE

R. R. 1, Box A

HARRISTOWN, ILL.

Quality White Plymouth Rocks

Strong and vigorous chicks that will do their bit. Do your bit by sending us your order and help win the war. 25 for \$5, 50 for \$10, 100 for \$19. Chicks and eggs from exhibition pens, also several fine cockerels for sale. Orders booked for future delivery for 25 percent of order. Give us your order now and you will not be disappointed by not being able to get them later, as the supply will be short this season.

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ALMY'S REDS

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THE GREAT SENSATION AND RED PRINCE STRAINS

Win at MADISON SQUARE GARDEN, two firsts, two seconds, and three shape specials, etc., etc. In addition to our clean-up at BIG PROVIDENCE SHOW, of 8 firsts, 4 shape, 3 color and 5 gold specials, and display for 10th successive year.

Eggs \$10 per setting of 13, from our finest Ex. matings. Send for Mating and Price List, telling how, or order direct from this ad.

Cockerels

Some elegant breeding cockerels, very low, also Pairs, Trios and Pens.

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Box 100, TIV. 4 COR., RHODE ISLAND

FERRIS HIGHEST QUALITY SUPPLIES
EVERYTHING FOR POULTRY

EGG CARTONS
 3 row cartons, \$1.00 per 100, \$6.50 per 1,000, \$52.00 per 10,000.
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 Printed with your name and address at slight additional cost. Catalog gives full particulars.

PARCEL POST EGG BOXES
 1 dozen size, 25 for \$1.85, 100 for \$6.50. 2 dozen size, 25 for \$2.75, 100 for \$10.50.

CHICK SHIPPING BOXES
 25 chick size \$1.90 doz., \$12.50 per 100. Special prices
 50 chick size, \$2.85 doz., \$18.00 per 100. In 1000 lots
 100 chick size, \$3.95 doz., \$24.00 per 100. or more.

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 15 egg size, \$1.50 doz., \$10.00 per 100. 30 egg size, \$2.15 doz.,
 \$14.00 per 100. 50 egg size, \$3.35 doz., \$24.00 per 100. 100 egg
 size, \$4.25 doz., \$30.00 per 100. Special prices on larger lots.

MARKET CRATES
 Standard size 2 feet by 3 feet. Twelve inches high.
 45c each, \$4.50 per 100.
 See catalog for other sizes and kinds.

FOLDING EGG CRATES
 3, 6, 9, 12, 15 and 30 doz. sizes. Also a complete line of
 market egg cases, fillers and flats at lowest prices.
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BROOD COOPS
 Size 17 x 23 in. Made of heavy galvanized iron. \$2.50 each,
 1 doz. \$19.00, 1 doz. \$25.00. Catalog describes Settling
 Coops, Chick Runways, Colony Coops and all the equip-
 ment you need to raise chicks successfully.

BROODERS
 ALL KINDS
 Fireless, Coal Burning, Oil Burning and Electric.
 Capacities from 50 to 1000 chicks. Prices \$2.75 up.

EGG CANDLERS
 We carry a complete line at all prices from 35c to \$7.50.
 Our Daylight Candles require no dark room.
 Be sure to send for catalog describing them.

LEG BANDS
 For chicks, 10c doz., 50c per 100. For hens, 15c doz., 75c per 100.
 Celluloid, Superior, Double-Clutch, Challenge, Self Locking and
 several other kinds at above prices.

EGG PRESERVATIVE
 \$1.25 per gallon—enough for 60 dozen eggs. Will keep eggs 10 months.

FEED HOPPERS
 We have so many kinds of hoppers, grit and shell boxes, and
 feeding troughs that there isn't space to list them here.

THERMOS FOUNTAINS
 Keep water cool in summer and warm in winter. Three sizes.
 Catalog gives particulars.
 2 gallon crockery fountain, 60c each, \$6.00 per dozen.

CHICK FEEDER
 This is a great feed saver as the chicks cannot get into it.
 Large size, 35c each, \$4.00 per dozen.
 Small size, 20c each, \$2.25 per dozen.

AUTOMATIC FEEDERS
 If you do not have time to feed your birds regularly, you need
 these feeders. Several sizes and kinds from \$1.65 up.

TRAP NEST (front)
 Fastens to orange crate or other box. Price 50c each, \$5.50 doz.
 Wood and metal nests—all kinds.

ROOSTING OUTFITS
 Equip your poultry house with these outfits. Several
 styles. Also lice proof roosts.

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 Grind your oyster shell, grain, etc. in one of these mills.
 Price only \$2.75.

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 Several styles—both hand and power. Properly mixed mash
 gives best results.

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 Several different kinds, from the cauldron cooker as illustrated,
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 Fresh cut bone is better and cheaper than meat scrap. One
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 We carry a complete line of Poultry Books. Over
 50 books listed in catalog. Also Egg Record Cards
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POULTRY REMEDIES
 We handle only the best remedies and guarantee
 them to give good results or your money back.

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 Get our prices before you buy. We
 have several kinds. Our Carbolineum
 Lice Killer at \$1.35 a gallon will keep
 mites away an entire year with one
 application. Lice killing nest eggs, 75c per dozen.

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 No matter what you may need in the line of poultry
 supplies we have it. The items listed above are only a
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 catalog. Our prices are low and we guarantee every-
 thing to give complete satisfaction. If you order any-
 thing that is not just what you want you can return
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 C. O. D. if desired. Send for the catalog now—you
 are sure to need some of the articles described.

GEORGE B. FERRIS
 605 Shirley St., Grand Rapids, Mich.



The year's at the Spring
 And day's at the morn;
 Morning's at seven,
 The hillside's dew-pearled;
 The lark's on the wing,
 The snail's on the thorn—
 God's in His Heaven
 All's right with the world!

—Robert Browning.

* * *

WITH the long cold winter at an end, each day finds us with a few minutes of spring sunshine to the good. A great many things have happened during the season just passed. As heard said the other day, "We have lived thru

The individual, as well as the community and the nation, daily discover valuable resources upon which they have not hitherto drawn.

We must all admit that notwithstanding present conditions thruout the world, the universe itself remains sound and healthy, the atmosphere pure and unpolluted, the sunshine warm, the wind sweet, the sky vast and unmoved by the tragedy enacted beneath it.

It is the custom of the peoples of the earth to place such reliance upon the value of the dollar that most of us have



Laying house and S. C. White Leghorns on Sunlight Poultry Farm, Lynchburg, Ohio.

such trials as not soon to be forgotten."

In living thru any trying experience, the value thereof is always to be determined by what we get out of it, what headway we have made, what progress has marked our journey. If we find the trial has not "tempered our steel," we are losers, not gainers by the experience.

Among any people there always exist vast material and moral resources untouched. A crisis helps to develop them.

altogether lost sight of more valuable assets. We are only beginning to learn how paltry the accumulation of wealth and what a house of cards it has builded. The history of the world is one of selfish greed, of crimes committed under the protection of wealth, of dishonesty and secret pilfering under the name of big business and diplomacy, but we need not be discouraged at its black record. There is hope that a day is



S. C. White Leghorns

BABY CHICKS and HATCHING EGGS

from pure-bred, healthy, vigorous, heavy-laying stock.
 We can deliver Baby Chicks right to your door by Parcel Post.

TRANSPORTATION CHARGES PREPAID
 on both eggs and chicks.

PRICES FOR APRIL

BABY CHICKS		HATCHING EGGS	
100.....	\$20.00	500.....	\$97.50
100.....	\$10.00	500.....	\$47.50

After May 1st, \$2 per 100 less than April Prices

Send 25 percent of the amount and have me book your order or better still send the full amount and deduct 10 percent for cash.

After April 15th orders for chicks must be booked three weeks in advance.

Eight and ten-week old chicks and breeding stock.

CATALOG with prices free.

Sunlight Poultry Farm Box 200 Lynchburg, Ohio

dawning when every child born into the world will have a chance for his daily bread and every man an opportunity to be honest and wholesome, even tho' nowhere may we boast of this condition today.

We have but to read snatches of the illuminating literature as conceived in master minds and given to the world in past and present ages to awaken wonder that we have benefitted so little from the words of wisdom freely given us. Great thoughts and ideas proclaimed to the world sometimes lie fallow for centuries before springing up and bringing forth the inevitable good fruit. Unless we work for their fulfillment good thoughts are as futile as good dreams.

There is nothing more pregnant with hope for the betterment of the world than the discontent among its people. The greater the discontent with the old order of things, the more will coming generations be benefitted. That sincere persons in every corner of the earth are giving time, money and effort toward the establishment of a better social state betokens some great world wide awakening which nations and selfish individuals may attempt to obstruct but which will eventually find outlet.

* * *

If there are men and women among us today with a talent for righting wrong, there is work to do a plenty, and the time ripe for its doing. To sit idly by and complain of unjust conditions is futile. The very poverty of justice in the world is a challenge to you and to me to work for better things—to put our shoulders firmly to the wheel to do all in our power to give humanity the right of way above every other consideration.

The world is weakened for the lack of honor in its public mind. Most of the virtue of which we prate is vice-like—a conventional virtue which relates only to our material welfare. On every hand we find gross injustice and licensed privilege for the few. The food we eat, the very clothing that covers us is not free from the stain of unjust dealing. How can we hope to lift the gigantic wrong which has burdened humanity for centuries, with naught but our two hands and the will to leave the world better than we found it?

Every step of progress since the beginning of time has been the result of a thought in one man's mind, and the determination to work it out into practice. By what right do we eat bread and clutter up the earth with our presence if we contribute naught to the common benefit? The call of every citizen should be toward adding his daily bit in righting the flagrant wrongs of society which confront us on every side.

Nature is engaged in a constant state of repair. Every sunrise sees a new day. Every night casts off the old and furrowed face of yesterday. Thus Nature is ever refreshing, inspirational and good to look upon. Can we not learn a little of living from Nature or must we forever wear the same age-stained cloak and time-marked countenance, which aims to block every step of progress and prevents the dawning of a new and more beautiful day?

* * *

In coming years men looking back upon this age will sigh that they did not live in a time so rich in opportunity for human betterment: "Could I have lived then I might have saved the human race

Stop Hatching Weak Chicks



With Cheap Incubators

Remember it is not how many you hatch that counts, but how many you raise. Chicks that hatch out weak and wobbly, and live but a few days, mean nothing to you except trouble and loss. They make one sick of the poultry business. Most of the chicks you lose in the first two weeks die because they did not hatch out with enough vitality or strength for a good start.

Queen Incubators

Hatch Chicks That Live and Grow

The Queen is accurately regulated—taking care of a temperature variation of 70 degrees without danger. It is built of genuine California Redwood—very scarce in these days of imitation and cheap substitution. Redwood does not absorb the odor from the hatching eggs. Cheaper woods, and pasteboard lining in iron and tin machines, retain the odors, to weaken and kill the hatching chicks.

Start your chicks with a Queen constitution and they will make money for you. The Queen is not a cheap incubator, compared with many of the cheaply constructed machines on the market, but it is cheap in the long run. It will be turning out high percentage hatches years after the cheap machines have been junked. Sold by dealers. Catalog sent free on request.

QUEEN INCUBATOR CO.

No. 14th Street

Lincoln, Neb.

SPECKLED SUSSEX

Winners at New York, Boston, Chicago and Cleveland

DIRECTOR, *America's Champion Sussex Cockerel*

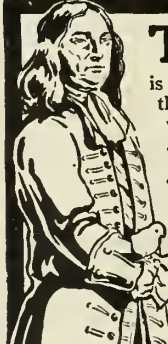
MORAINÉ'S DELIGHT, *America's Champion Sussex Cock*

These superb birds were the **Blue Ribbon** winners at the Club Show, Cleveland, Ohio, 1918, in the greatest quality class of Speckled Sussex ever staged in America.

Judge Rawnsley in the February Reliable Poultry Journal claims *Director* the best Sussex cockerel he has ever handled.

"Think of it" these two great sires are heading two of the finest matings of Sussex in the world. Write today for our free mating list describing these beautiful birds. **YOU WANT THE BEST**, send your order to

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The Penn Hatchery

is located "in the heart of Philadelphia" near both railway terminals, the subway and surface cars and express offices. We offer strong, vigorous, pure-bred

BABY CHICKS Popular Breeds Popular Prices

Visit us if you can. **Inspect the chicks before purchase.** Carry them home without loss or delay. Or mail your order for quick shipment by **direct express**. In either case you will receive big value and the best of service.

Write now for free catalog

THE PENN HATCHERY
1221 A Arch Street, Philadelphia, Pa.

"CLUCK-CLUCK" MORE EGGS

THE HEN'S CALL FOR

CRYS-CO. The Universal Favorite

HARD, SHARP AND CUBICAL YET SOLUBLE GRIT.

99% PURE CARBONATE OF LIME. SAVES BUYING OTHER GRITS.

IN A CLASS BY ITSELF Not to be confused with common Limestone and Marble Grits, which are soft. ASK YOUR DEALER WRITE FOR BOOKLET—W.A. NEUSITZ CO. DEPT. C ST. LOUIS, MO.




LESS COST

You Should Send 25c for Our New Poultry Account Book.

Simplex Midget \$ 1 25 Feather Brooder 1 25 Postpaid

This Midget Brooder is made to fill a gap between the old "cluck" and the large artificial brooders.

We guarantee that this brooder will raise as many chicks as a "cluck" if placed in a living room or warm basement. It is made to accommodate one setting of 15 chicks, but will take care of 25 chicks for the first week.

Uses for this Brooder

Thousands of people buy baby chicks in dozen lots and have no place to properly brood them until they can take care of themselves. This Midget Brooder will take the place of the hen and raise them.

Many times a poor hatch comes out of an incubator or a few weak chicks de-



The feather hover inside can be raised and lowered to suit the size of the chicks.

mand special attention. It is a good deal of trouble to raise a few chicks in a big brooder. Why try, when you can get this Midget Feather Brooder to raise them without trouble?

When the old hen deserts her chicks, that's another time the Midget Feather Brooder is worth its weight in gold.

Construction

The body of this brooder is made of germ proof fibre board; the top and bottom are made of best grade of corrugated board and the feathers are genuine down feathers, the same as used in our larger Simplex Perfection Feather Brooders; and this brooder is guaranteed to raise every chick worth raising.

Send \$1.25 today and let us send you one by parcel post, prepaid. Money will be refunded if you are not satisfied. Also ask for our catalog of larger brooders and other poultry supplies.



Note the thickness of the downy feathers which warm the chicks.

SIMPLEX SUPPLY HOUSE, Pontiac Bldg. Chicago, Ill.

this or that set back—not a century but ten centuries at stake and whole races of people blind to the opportunity it was theirs to grasp." But at this most vital period of history, some of us with inattentive eyes and ears are going about discussing trifles. It is astonishing to observe the lack of interest displayed in matters of the gravest importance. With conditions such on every hand as to fire the heart of every man, woman and child, yet everywhere we find those who are not sufficiently aroused to inform themselves of the meaning of the revolution in Russia or, to come nearer home, the present condition of agriculture in our own country. In the very midst of world wide confusion, they sit contented, interested only in their next month's dividends or the selection of wall paper for the attic chamber. There is no lack of opportunity to learn somewhat of the world's present status and its crying needs, for with the will to know and understand, we can sift the chaff from the wheat in the literature with which we are surfeited.

The test of human worth lies in the breadth of character and extent of honest dealing. There can be no permanent advance of mankind which is built upon the miseries of those less fortunate. Mending the world is only possible by creating a better world, and each has it within his power to do somewhat of this, and no one need be at a loss to know just where to lend his hand. There remains a wide and varied field for those of noble aims. We are living in a world which is about to begin its real work. It is at the starting point rather than at the end of things. Our hopes rise before us, outlining but dimly what we are to be. What is not allowable today shall tomorrow be within our reach, and that which today seems scarcely attainable will tomorrow become a realized fact.

Let us then be bearers of hope. Let us reinforce all mankind with a vision which no temporary blackness can overcast; for the morning of a new day, rich in possibilities is even now illuminating the night surrounding us, and it is time to be awake to its possibilities.

* * *

CORN POPOVERS.

Scald two cups of sweet milk, add a scant tablespoon of chicken fat and stir in a cup of sifted corn meal. Allow to cool and add three well beaten eggs. Have gem pans greased and hot, pour in the mixture and bake in quick oven. These are delicious and a pleasant change from the usual corn muffin.

* * *

SOFT JOHNNY CAKE.

Boil one pint of water to which a teaspoon of salt has been added. Stir in one-half cup of rolled oats and one cup of corn meal and cook ten or fifteen minutes. Pour out in a flat bread pan, cover and bake for twenty minutes. Chopped raisins, currants or dates may be added to the mixture before baking and if a little molasses or sugar is added it will improve the flavor. If a crusty cake is preferred, bake in a thin sheet.

* * *

CORN DODGERS.

Place one cup of corn meal in the upper part of a double boiler, add a half teaspoon salt and gradually one cup of boiling hot milk. Beat smoothly and cook one hour. After frying sausage or bacon for breakfast drop the cornmeal

HOW TO BEAT GERMANY

Feed "OCULUM," the Egg Maker, and Double Profits

Experts like Hawkins and Fishel call "OCULUM" a "Miracle Worker."

I fed "OCULUM" to 48 Leghorns 24 days; eggs jumped from 8 to 42 a day.

H. C. MILLER, Akron O., Judge A. P. A:

"OCULUM" doubled my egg yield in 23 days.—C. E. CORNELL, Tacoma, Wash.

"Oculum" makes Eggs Fertile and Chicks Strong

Bottles, 50c and \$1; Pint \$2. Money back if not satisfactory. SAMPLE, 10c—240 FEEDS
Booklet "All About 'OCULUM'" FREE. Dealers Handle It. This Journal O. K's Us.

"OCULUM" CO. - Box B - SALEM, VA.



Barker's Langshans

Win Again at Chicago Coliseum, Dec., 1917

1st and 2d cock; 2d and 4th hen; 1st, 3d and 5th cockerel
1st, 2d and 4th pullet; 1st and 2d pen. Also

At MADISON SQUARE, N. Y., Dec. 28 to Jan. 1, 1918

Win 1st and 2d cock; 1st and 3d hen; 2d and 3d cockerel;
1st and 2d pullet and 1st pen.

If you have decided that only the BEST will satisfy you, write me.

A few Choice Cockerels for sale
Eggs, choice matings, \$10.00 for 15; new mating list.

M. S. BARKER, Thorntown, Ind.
— Rural Free Delivery Number One —

PRESERVE YOUR EGGS NOW!

30 doz. eggs preserved for 40c prepaid. Absolutely guaranteed. Recommended by U. S. Agri. Colleges and Experimental Stations. Agents wanted.

YANKEE EGG PRESERVER CO.
9754 Winston Ave. (Desk 1) CHICAGO

You can get the American Poultry Journal 3 years for \$1

mixture by spoonfuls into the fat in frying pan and fry a nice brown. Serve hot.

BAKED EGGS.

Into one pint of hot milk add two table-spoons flour and two of butter which have been rubbed together. Add a teaspoon of salt and a little pepper. When the mixture is smooth, pour half of it into a baking dish, and break into this six eggs. Pour the rest of the sauce over the top of eggs. If desired, add a bit of cheese should be grated over the top. Place the baking dish in a pan of hot water and bake in a medium oven about twenty minutes.

MOLASSES DOUGHNUTS.

Beat two eggs and add one-half cup sugar and one-half cup molasses. Add a teaspoon soda to a cup of sour milk, and pour into the mixture, together with one-half teaspoon each of ginger and cinnamon. Sift in enough flour to make a dough that can be handled, adding a teaspoon of cream of tartar to it. Cut in rounds with hole in center or in strips and twist. Fry in smoking hot deep fat. Drain on brown paper.

BARLEY CAKE.

By K. A. B.

Mix one-half cup sugar with one tablespoon chicken fat and add one egg, one teaspoon cinnamon and one-half teaspoon each cloves and nutmeg. Stir in a cup of rich sweet milk and one and one-half cups barley flour, one-half cup rye flour and one and one-half teaspoons baking powder. Bake in a moderate oven.

OYSTER FRITTERS.

By K. A. B.

Make a thin batter, using the liquor from the oysters and an equal quantity of sweet milk, one well beaten egg, one-fourth teaspoon salt and about three tablespoons flour. Chop the oysters, mix with the batter and fry by dropping spoonfuls of the mixture in hot fat. Or the whole oysters may be dipped in the batter singly and fried whole, one oyster and enough batter to make a large spoonful. Fry each side a nice brown and serve at once. They require only a few moments to cook.

ORANGE CHARLOTTE.

By K. A. B.

Soak two level table-spoons granulated gelatine in one-fourth cup cold water until soft, then fill the cup with boiling water. Empty into a bowl and add juice of one lemon, one cup of orange juice and one cup of sugar. Stir well and place in a pan of cold water. When beginning to harden, fold in a cup of whipped cream. Beat with an egg beater and put into sherbet cups ready to serve.

JELLIED PRUNE PUDDING.

By K. A. B.

Wash one pound of prunes and put on to cook in one pint of cold water. When tender remove the seeds and add one cup of sugar. Cut each prune in several pieces. Dissolve one envelope of minute gelatine in two table-spoons of cold water, adding an equal amount of boiling water after the gelatine begins to dissolve. When thoroughly dissolved add to the prunes, together with the juice of one orange. Pour into molds and set aside to harden. Serve with whipped or plain cream.

POTATO CAKES.

By K. A. B.

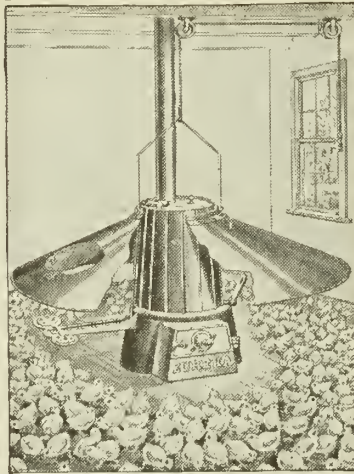
Peel and grate raw potatoes, placing the pulp on a sieve to drain off the liquid or watery part of potato. Add to the grated potato one beaten egg and sufficient flour to make a thick batter and salt to taste. Form into little cakes and fry nice brown in hot fat. Serve hot. These are fine.

PARSNIP CAKES.

By K. A. B.

Parsnips which have been allowed to remain in the ground out of doors all winter are now very delicious plain boiled, fried and in many other ways. We are very fond of parsnip cakes which are made as follows: Boil the parsnips until very tender, drain off the water and mash them thru a colander. Beat two eggs and add them with a cup of rich milk or cream to the mashed parsnip. Salt to taste and sift in enough flour to thicken to form into cakes. Fry golden brown in hot fat, either in fry pan or in deep fat. Sprinkle with chopped parsley and serve hot.

Sold On A Money-Back Guarantee



When you buy a Eureka Brooder you run absolutely no risk. My guarantee is honest, with no strings attached to it. You can try this brooder 30 days. If after that time you are not entirely satisfied with it, return it to me—at my expense—and I will refund the purchase price without a quibble. I also pay the freight both ways. Can anything be more fair than that?

The Eureka Colony Brooder

Price \$17.50 and \$21.50

is a brooder that I have absolute confidence in. I am a large manufacturer of stoves and make every part that goes into it. I eliminate useless expense. This brooder has a corrugated fire pot, is self regulating and is made of solid cast iron, burns hard coal or natural gas as desired. I honestly believe it will raise more chicks and better chicks at a lower cost and with less labor than any other brooder on the market. I have testimonials from many users of the Eureka Colony Brooder and will gladly send them, together with full information about the brooder, if you write today requesting same. Don't forget my honest offer, 30 days' free trial without costing you a penny. Write now for descriptive literature. AGENTS WANTED EVERYWHERE.

JAMES R. WOTHERSPOON
240 N. Front St., PHILADELPHIA, PA.

WHITE ROCKS 1st Cockerel, — 3rd Hen —
Heart of America Show,

KANSAS CITY, MO. Eggs, \$1.50 to \$5.00 per 15. Write for free catalog. - MYRON ALBERSTETT, DAVIS, ILLINOIS

Pure bred BARRON S. C. Wh. Leghorns EGGS and CHICKS from 282 egg stock

EGGS, \$1.50 per 15; \$7.50 per 100. CHICKS, \$15.00 per 100

Every non-fertile egg and damaged chick replaced free. Send us your order now to insure delivery on the date you wish them. No deposit required.

Coleman Miles Egg Farm, Importers and Breeders of Tom Barron's Pedigreed Leghorns. Mt. Carroll, Ill.

Rood's White Leghorns
WIN AT THE GREATER CHICAGO SHOW

At the Greater Chicago Show, January 9 to 15, 1918, I won First and Third Cockerel, Second Young Pen and Sixth Pullet on four entries. Every bird placed. Also won Champion Male and Best shaped Male. My mating list is ready and is yours for the asking. I know it will help you.

TED ROOD 1718 Superior Street WEBSTER CITY, IOWA
QUALITY, BRED-TO-LAY



S. C. White Leghorns
EXCLUSIVELY

Day Old Chicks and Eggs for Hatching. Order now for future delivery. Our prices and quality are right. At least get our catalog and prices before ordering elsewhere.

THE ELLIOTT POULTRY FARM - Route 7, Box 87 - Mansfield, Ohio

WARNER'S S. C. BUFF ORPINGTONS A Mother Hen FREE with every order for 12 or more baby chicks. Deduct \$1.50 from the amount of your order if the mother hen is not wanted.

Chicks from pen matings 50c, 60c, 75c and \$1.00 each.
Eggs from the finest matings \$3.00, \$5.00, \$7.50 and \$10.00 per 15.

OUR BIRDS ARE WINNERS at such shows as Greater Chicago, Illinois State, Peoria, Quincy and Monmouth, Ill. Fine males and females sired by champion and color male and second pen male at Greater Chicago Show, 1918, for sale. Fine trios at a reasonable figure.

D. L. WARNER LITTLE YORK, ILLINOIS

BOOM!!

The bursting shells of American Chickdom presage victory for American arms if you do your bit, for "chickens may win this war."

- Do it NOW by sending in your order QUICK before the great DRIVE is on. Prices for delivery after February 15, 1918, live delivery guaranteed:
- S. C. White or Brown Leghorns, per 100 \$11.50
 - Barred or White Rocks, S. C. or R. C. Reds, White Wyandottes, Black Minorcas and Buff Orpingtons, per 100 13.50
 - Anconas, per 100 12.50
 - Light Brahmans and White Orpingtons, per 100 15.00
 - Golden Campines, Silver Campines, Black Orpingtons, Buttercups, Speckled Sussex, per 100 20.00



Great Brooder Stove Offer. Catalog free. Stamps appreciated. NABOB HATCHERIES, Box A, GAMBIER, O.

FROM THE PACIFIC COAST

IRRIGATION ON THE POULTRY RANCH.

By CHAS. WEEKS, Palo Alto, Cal.

IN LOOKING back over the fourteen years' experience in the poultry business in California, I see so many mistakes, so much useless labor, so much grinding over useless details, that my heart goes out in sympathy to the new beginner, and I feel like saying just what any old poultryman would say to those just starting. The old adage, "Learn to do by doing," holds good in the raising of poultry as in all other things, but the successful men in the world are keen to make use of the accumulated knowledge on their line and thus save years of toil and experimenting.

The man that has the ability to start

in where the other man leaves off is the man that is able to progress. "Learn to do by doing" is the only practical way to become an expert poultryman, but by using the accumulated experience of others we are able to start doing the right thing instead of groping blindly for a right system. There is a way to do the right thing in the right place, and at the right time, and if we can make this "doing" count while we are getting experience, then we save time.

If I were to start over again I would

board. If I could not earn my board, I would pay for the privilege of getting to work with hens until I found out the secret of how to make them pay.

This is the surest way of becoming proficient in the art of making poultry pay. Another way is to start in on a very small scale and accumulate experience in off hours. Perhaps our most successful poultrymen have started in this way. Another way, and a very good way, is to locate in the neighborhood of a group of successful poultrymen and from observation and mingling and enthusiasm engendered at their poultry meetings be carried on to a degree of success otherwise impossible to one alone. A community of poultrymen located on the right soil with plenty of

UTAH LEGHORNS

It is no longer necessary to send East for the best in

S. C. White Leghorns Show and Utility Stock

at \$3.50 to \$25, which will please anyone. They win and they lay.

BABY CHICKS \$15.00 per 100
HATCHING EGGS 2.00 per 15
..... 7.50 per 100

Eight-week old pullets in season.

I have in my breeding yards fifteen daughters of 300-egg hens, stock from these birds a matter of correspondence.

If you don't want to order from this ad, write me your wants and send for catalog.

EDWIN BRICKERT, BEAVER, UTAH



S. C. Rhode Island Red pen which won first place medal for November at the North American International Egg Laying Competition. Owned by Hopewell Farms, Hopewell, N. J.

go to the most successful poultryman I could find, put on my overalls, roll up my sleeves and go to work. If he could not pay me wages I would work for my

cheap water for irrigation and a home market makes ideal conditions for the amateur. The very air is permeated with poultry enthusiasm which carries a man on to a far greater success than he is ever able to accomplish in an isolated district. A community located on poor soil with no cheap water and far away from market will never succeed and only tends to leave an impression of poverty. You must have these three essentials: rich soil and plenty of water to grow green feed and a good home market. Any community of poultry keepers that has not these three essentials must tolerate a large number of failures. There are so many locations with these three essentials that it seems folly to locate in the poultry business without them.

In making my start fourteen years ago I looked long and faithfully for that much talk of "light, gravelly, loamy soil," so necessary for healthy fowls, and finally chose what I thought to be an ideal "soil" for poultry, little dreaming that it is only what the soil produces in the way of green feed for poultry that makes it a good poultry soil. Goodness, gracious! What a mistake I made! The soil was too poor to grow anything, and

Single Comb White Leghorns

WINNERS OF EVERY FIRST PRIZE
PANAMA-PACIFIC EXPOSITION

EXHIBITION AND FOUNDATION STOCK
LINE BRED AND TRAP-NESTED

Cock Birds at reasonable prices,
Breeding Cockerels—strong and vigorous.

Free descriptive Mating List, giving prices on Eggs
for Hatching, now ready. Write for one.

Acknowledged by Judges everywhere to have the
most uniform standard Leghorn type of any
strain in America. Bar none.

RANCHO DEL MARTINO

MRS. E. B. MARTIN

P. O. Box N DOWNEY, CALIFORNIA



FIRST PRIZE COCKEREL AND CHAMPION WHITE LEGHORN MALE
PANAMA-PACIFIC INTERNATIONAL EXPOSITION NOVEMBER 1915
BRED AND BRED EXHIBITED BY MRS. E. B. MARTIN, DOWNEY, CAL.

McCartney Farms S. C. Rhode Island Reds S. C. Black Minorcas

We Breed "Top Notchers." Coliseum Show, Chicago, 1917, won 1st and 4th Cockerel, 1st Hen, 2d and 3d Pullet, 3d and 5th Cock. 1917 won 25 first prizes. Our birds have type, color and vigor. Eggs that will hatch strong, vigorous chicks; chicks and stock for sale. Send for catalogue. It is worth your while.

EGGS McCartney Farms R. F. D. No. 1 Gardena, California



as the hens could not eat the soil and lay eggs, it was absolutely worthless as a poultry proposition. Then I had to lift my water fifty feet for irrigation, and only a little stream at that and any practical man knows that it is impossible to lift water over thirty feet and make it pay in producing vegetation. Five long, hard years I labored on this unproductive soil with little water, and barely earned a subsistence. The trials and tribulations and worries and heartaches of these five years are only a repetition of the experiences of hundreds of others who are so unfortunate as to locate on an unproductive soil with no water for irrigation.

I had set out to make poultry raising my life work. I had dreams. To be balked in the line I loved and had chosen this early in the game was more than I could bear and I was determined to solve the problem of how to make hens pay. I thought at first that my equipment was wrong. I built new houses, only to tear them down and build over again the next year, and so on for several years. I finally discovered that it was only at those brief seasons of the year when I could have succulent green feed that my hens paid. Then common sense began to assert itself and I began to reason that it is impossible to have the hen lay eggs without she has what nature intended she should have to form eggs. And as spring-time conditions always brought eggs, it behooved us to give the hens spring-time conditions all the year around.

These spring-time conditions can be had the year around here in California if you have the fertile soil and cheap water for irrigation.

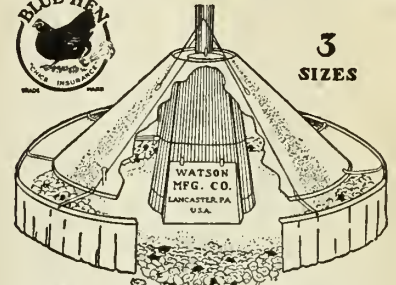
When I made this important discovery that hens must have all the fresh, succulent green feed they can eat every day in the year, I saw very plainly that my location was absolutely worthless as a poultry ranch.

In these five years of endeavor I learned that a rich soil, well watered and near a good market are the necessary attributes to any feasible location for poultry raising. I saw that it was absolutely imperative to choose a new location, and this I did at once, and seven years on this rich soil with abundant water and home market have been as prosperous as the first five were a failure. If you have not these three essentials, sell out at once. You cannot afford to waste a single day without these necessary conditions, and the sooner the change is made the better. All the successful poultrymen that I know have these essentials, and the more quality these essentials have the better the success.

Green beets, green kale, green chard, green barley, green rape, green alfalfa, green every day in the year, cries the hen, and without this fresh, succulent green feed it is absolutely impossible to produce eggs at a profit. To grow these succulent green feeds you must have a large flow of cheap water. A windmill will not do. You must have at least 300 or 400 gallons per minute to be able to irrigate without loss of too much time. I have a centrifugal pump that throws 600 gallons per minute, 36,000 gallons per hour, 360,000 gallons in ten hours, at a cost of twenty cents per hour. My water lift from water level is only ten feet. With my rich soil and this river of water from my sixty-foot well I can raise tons and tons of beets and kale and

WRITE QUICK

For the BLUE HEN FREE BOOK and OFFER



3 SIZES

Capacity 350 Chicks \$17.50
Capacity 500 Chicks \$21.50
Capacity 1000 Chicks \$25.00

Curtain and Thermometer furnished on Nos. 44 and 45 only

Quick action now essential to big production of poultry this season. Prompt shipments guaranteed. Special Get-Acquainted offer enables you to buy now at remarkably low prices. Mail postal or send letter now and begin helping Uncle Sam by producing MORE POULTRY.

BLUE HEN COLONY BROODERS

give ample heat in any weather. Fire can't burn up too high nor down too low. Exclusive curtain arrangement gives fresh air but prevents floor drafts. Size to brood, 100 to 1000 chicks. Only a few minutes a day to operate.

BLUE HEN LAMP INCUBATORS

Double walls. Thick insulation. Even temperature in egg chamber. Refrigerator style doors keep heat in and cold out. Dove-tail, lock-joint construction. Self-regulating and ventilating. Nursery under egg trays. Will last 20 years or more and will make money every year for you.

BLUE HEN HOVERS

for 50 to 100 Chicks. Plenty of room. No. 15 for 50 Chicks, 16 inches in diameter, price \$9. No. 24 for 100 Chicks, 24 inches in diameter, \$12. Heater entirely outside allows more room inside hover for chicks. Heats with 10% to 30% less oil.

WRITE FOR FREE BOOK AND OFFER



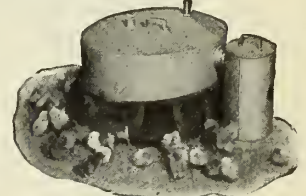
5 Sizes: 65, 80, 160, 260 and 440 Eggs

BLUE HEN Brooders, Incubators and Hovers have proved sensational money-makers for others. Get facts, figures and proofs. DO IT NOW. Special offer to first users in each locality. Write today to the office nearest to you, and we will send our free book, "Making Poultry Pay."

WATSON MFG. CO.

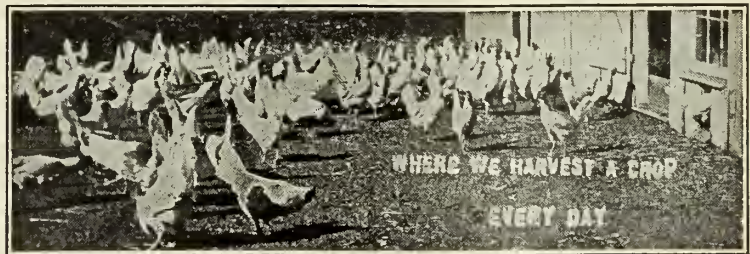
2731 Ann St.
LANCASTER, PA.
or Dept. 2731
1534 Masonic Temple,
CHICAGO

NOTE: Prices slightly higher west of the Mississippi River.



"HOME, SWEET HOME"

You Needn't Board Our Leghorns Free All Winter—THEY LAY EGGS



WHERE WE HARVEST A CROP EVERY DAY

"The Proof of the Pudding is in the Eating"

Best day's laying in WINTER by 400 pullets, 324 eggs; another lot of 200 hens paid \$1,124 profit. They will lay as well for you. TESTED 10 YEARS. If you want the WINTER EGG and BIG PROFIT, buy of the breeder that can give the unquestionable PROOF. 20,000 chick, selected GUARANTEED FERTILE hatching eggs and stock at a LET-LIVE price. Get my big free catalog. Write today OSEE C. FRANTZ FARMS, ROCKY FORD, COLORADO



Here's the Doctor

to help you serve your country and fill your needs
Our "Efficiency" Chicks

Never before in the history of our country has there been such a demand for poultry. Our Allies are calling for more and more food. Our own soldier boys must be fed to keep them in trim to fight our battles. We must raise all the poultry and eggs possible. Our "efficiency" chicks are the kind that meet those needs. Letters from our old patrons tell us how well our stock is doing for them. And our prices are surprisingly low. Ask for our catalog, which tells you all about them and the varieties we supply.


CLYDE CHICK HATCHERY

Box A-21

CLYDE, OHIO

NATIONAL Gets Big Hatches

J. L. Orr, Malden, Mo. writes, "Out of 592 eggs I got 586 thrifty chicks. My first experience with an incubator." **The 1918 National with all latest features and improvements is the greatest incubator bargain ever offered.** It has hot water heat—double wall— asbestos lining—self regulating and ventilating—double glass doors—safety lamp—copper tank, etc. No extras to buy. Strongest, most durable incubator made. **Money cannot buy greater hatching value. A guaranteed hatcher.**



40 DAYS TRIAL
The National Metal Covered Hatcher

165 Egg Incubator & Brooder

Both \$1250

Freight Paid East of Rockies

Take no chances. The National is built on Government specifications. Simple, compact, economical. Contains every modern operating convenience. A proven cold weather hatcher. The World's Greatest Incubator Bargain. Send postal for **Free Catalog and Poultry Book** worth dollars to every poultry raiser—or order direct from this ad and save time. Comes set up ready to run with book of instructions. You take no risk. We deal fair and above board—**no red tape.** Satisfaction guaranteed or money refunded. Order now—start hatches early or send for poultry book today sure. Get big profits from poultry in 1918.

National Incubator Co., Box 162, Racine, Wis.

WHITE LEGHORNS

"With The Lay Bred In Them"

Health—Vigor—Productiveness—Beauty

These important characteristics are strongly inbred in our flocks. Come and see. Or ask our customers. Our Leghorns will please you because they deliver the goods, Cockerels—Fine specimens, the sons of record layers. Bred and priced right.

Hatching Eggs—Big white ones, highly fertile, from real layers. None better.

Baby Chicks—The "livable," profitable kind. Full count and safe delivery assured.

We produce on our own farm everything we sell. That's why we please every purchaser. Write for FREE catalog now.

SPRECHER BROS.
Box 44, Rohrerstown, Pa.

Pagel's Sanitary Non-Freezing Fountain

No Lamps

Keeps water warm in winter and cool in summer. If not at your dealer, send for circular and testimonials from pleased customers.

Manufactured by the Originator

Fred Pagel B22 Rockford, Ill.

The "Best Yet" Aluminum Leg Band

cannot come off. Five sizes, pigeon to turkey. State breed, 12, 15c; 25, 25c; 50, 40c; 100, 75c. **Celluloid Leg Bands**—Red, Green, Amber, Pink, Black, White, Yellow, Light Blue, Dark Blue. Pigeon and Baby Chick sizes—12, 10c; 25, 20c; 50, 35c; 100, 50c. **Poultry sizes, 12, 15c; 25, 30c; 50, 50c; 100, 80c.** Circular free.

Aluminum Marker Works, Dept. J, Beaver Falls, Pa.

RABBITS

Tells all you want to know about Rabbits. Our book: "The Rabbit: How to Select, Breed and Manage the Rabbit and Belgian Hare for Pleasure or Profit," by breeders of long experience with rabbits. Seventh edition, nicely illustrated, enlarged and much improved. Price 25 cents with sample copy of the American Poultry Advocate containing Belgian Hare Dent. **Poultry Advocate Dept. 252 Syracuse, N. Y.**

alfalfa at a minimum cost. I have raised 300 tons of green kale to the acre and 150 tons of mangel wurzel beets. This is the whole secret of my success in poultry farming. Any one can duplicate my success with my environments. A pumping plant for one or two acres need not cost more than \$500 for the well, centrifugal pump, motor and all.

With your own pumping plant and motor you are independent for water and have the motor for your hired men to cut green feed, grind grain, mix feed, do washing, run the emery wheel, and all such work.

The very first essential on a successful poultry ranch then is the pumping plant. You cannot succeed in California without it. Be sure you locate where plenty of water is available at small cost.

I feel like shouting these truths from the house tops after my ordeal of five years' useless labor in the wrong place, and if I can save my fellow poultrymen from making the same mistake I will be glad.

There are three distinct profits derived from feeding a succulent variety of green feed to hens. First, tender, succulent greens keep hens toned up into a healthy condition so that a great saving is made in loss of hens, which adds materially to the profit in large flocks. Second, with a good variety of tender, succulent green feed the hen will not consume so much grain and mill feed and thus a great saving in cash outlay for these expensive feeds. The saving in grain feeds is most surprising and hardly believable. Third, the hen produces far more eggs—in fact, all the profitable eggs produced are made from green feed. We are working for eggs produced over and above the maintenance of the hen, and it is absolutely impossible for the hen to lay enough eggs without green feed to more than pay for her feed. This is a settled fact. With these three profits to the credit of green feed, you can see how essential it is and that success cannot be attained without it.

On that new dream ranch of yours, then, you must first have a pumping plant; then it is only a matter of good soil and application of water in a scientific way that produces this fresh, tender, succulent green feed. Be sure you have plenty of water, fresh greens before you have a single hen on the place—do not get hens first. Get your pumping plant, green feed started, and houses built, and then you start in making a profit from the first day. I am laying down the very laws of success in the poultry business and common sense and reason tells you that this is the sanest procedure.

After you have your pumping plant, green feed growing luxuriantly and houses built, then, and not until then, are you ready for hens. Enthusiasts come to my ranch and are pleased with the system and apparent ease of poultry raising and go away dreaming, make a start and fall down. They start wrong. They order a thousand chicks, put in a brooder and are off. They have started backwards. They should first learn how to raise kale, beets and alfalfa.

I have taken the long road. There is a shorter road and I advise you to be sure you have the right location before embarking in this pleasant healthful vocation.

CHARCOAL FOR POULTRY

Extra fine, fine, medium and coarse \$2.00 per hundred at Ironton. Cash with order.

John Silliman • Ironton, Ohio

POULTRY INDUSTRY REVOLUTIONIZED

MARVEL COLONY BROODER

\$17.50



Coal Burning, Self Regulating. Super-Automatic Check Control. Exclusive Patent Features.

The MARVEL is guaranteed to perform better and to raise more chicks than any other Brooder. Big saving in operating expense. Will brood 50 to 1000 chicks for less than 6 cents per day. Cuts initial cost for equipment to less than one half. Perfect satisfaction guaranteed or money back in 30 days. Send for Circular on "Scientific Brooding."

LIBERTY STOVE COMPANY
102 S. 3rd St. Phila, Pa.

R. C. REDS



OFFICIAL RECORD Meyer's Famous R. C. Reds

Our pen No. 59 in the 1915-16 Missouri National Egg Laying contest has

The Highest Record Ever Made

by a pen of Reds in any laying contest.

Our pen No. 22 in the 1916-17 American Laying Contest was first prize pen in the contest.

This shows that Meyer's Reds are leading all others. They win first year after year in competition with the best blood in this country. If you wish the best, write for free mating list.

RIVERVIEW POULTRY FARM
Hubert Meyer, Prop. Klondike, Mo.



Chicks

100,000

For 1918

Barred and White Rocks, White, Brown and Buff Leghorns, Rhode Island Reds, Broilers, White Wyandottes, Black Minorcas and Anconas. Hatched from pure bred, healthy, heavy laying stock. Lowest Prices. Satisfaction Guaranteed.

Write today—Catalog Free

E. H. UHLE
2061 W. 87th St., CLEVELAND, O.

BABY CHICKS

Orpingtons, Rocks, Reds, Wyandottes, Minorcas, Campines, Anconas and Leghorns, 12 to 15c each. Broilers \$12 per 100. Pound pullets and cockerels a specialty. Chicks ready for delivery in March. Booking orders now. Satisfaction guaranteed.

DELAWARE HATCHERY DELAWARE, OHIO

Poultry Raising in City Limits.

Don't for a moment let limited space dampen your aspirations for raising poultry. Eggs went soaring because so many fanciers quit the business. However, let's get back into line, overcome all difficulties, and raise more than ever this season. Be sure you select pure bred stock, they are quite as easy to raise as the mixed breed, and so much more profitable.

My first experience in the business was on a 50x150 ft. lot. I raised 300 Barred Plymouth Rocks that year, for which I received from \$2.50 to \$10 each, and from \$3 to \$5 a setting for eggs.

Of course, we all know the one great hindrance in this business is vermin. The battle must be royal from beginning to end, or they conquer. However, with new material, that is, new houses, nests, etc., they don't bother much the first year; hence my wonderful success, and by thoroly house cleaning in the late fall, after setting season, then again in spring just before the season begins, they can be materially subdued.

Some have the croneous idea that filth breeds lice. I've had baby chicks hatched in incubators to have them. A friend who was very sensitive about such things, described the symptoms of some chicks and asked what could be the trouble. I hesitatingly replied, "lice, dear;" she flew into a rage and informed me that she didn't have any vermin on her place. Just note the dense ignorance of some people.

The first thing I did was to divide my back yard into four pens, with 8 ft. wire fencing, with 24-inch base boards to prevent cock fighting. In each I built small houses, just large enough to accommodate 10 hens and 1 cock. I arranged the nests on the ground (which is best in warm weather) with planks 3 ft. wide, 3 ft. above for roosts (poles are tiresome to them), 8 inches under these was the solid droppings board, which should be raked off each morning, thereby lessening work. In one corner of each pen fork up deeply 6x6 ft. and enclose with 10-inch plank for scratching pen, which is very important for penned birds. About three or four times a month place 6 or 8 inches of chopped hay or straw into the scratching pen. They delight to scratch in it. All loose feed should be thrown in there. Keep plenty of oyster shell and grit (which is so essential to form egg shells) inside, in small receptacles wired to the fence to prevent upsetting. Vary the daily feeding for eggs, by hot mash in the morning, consisting of one pint of bran and hot water, one-half teaspoonful salt and one tablespoonful of some good poultry tonic. At noon one pint mixed feed (outside birds don't need the noon feed); night one quart of whole corn.

I kept green stuff, such as cabbage, turnip tops, carrots, etc., suspended on wires just high enough up for them to peck, which also gave them exercise. On either sides of two pens were vacant lots, so I arranged slide doors and turned them out in good weather. These days two feeds were sufficient. Bear in mind that penned chicks can't get any of their requirements, therefore you must furnish them. I used one gallon self-feeding galvanized water cans; however they can be improvised at home by using tomato cans. One inch from opening put one 8 penny nail hole on two opposite sides, fill with water and invert in

**Why Keep Hens
Why Not Let Hens Keep You**



The average hen loafs two-thirds of the time. This lack of egg producing efficiency takes all your profit.

What You Want Is Results

In these days of high costs you can't afford to take chances with anything but the proven proposition. Your needs are

**"The Maples" De Luxe Strain
Barred Plymouth Rocks**

This blue blood combines standard qualities, the heaviest egg production, and with its insurance of success you may go to the limit with such breeding for it will make good for you.

EGGS

\$10.00 per Setting Four Settings, \$33.00 100 Eggs, \$60.00

"The Maples" Poultry Yards
Concord Junction Massachusetts

Cut Your Feed Bill

WITH

MACMORE Brand

Wild Seed Squab Feed

BABY CHICKS

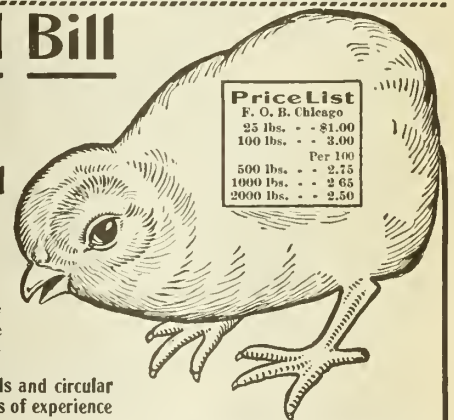
AND

PIGEONS

thrive on it. It is Nature's food, made up of wild grains—the seeds of weeds and native plants same as the poultry picks up on range, and is highly relished by penned fowl.

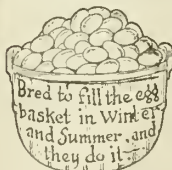
Send \$1.00 for sample bag of 25 pounds and circular telling of results obtained from it in years of experience

MACMORE FARM SEEDS CO.



Price List	
F. O. B. Chicago	
25 lbs. -	\$1.00
100 lbs. -	3.00
Per 100	
500 lbs. -	2.75
1000 lbs. -	2.65
2000 lbs. -	2.50

Dept. A, Harris Trust Bldg., CHICAGO, ILL.



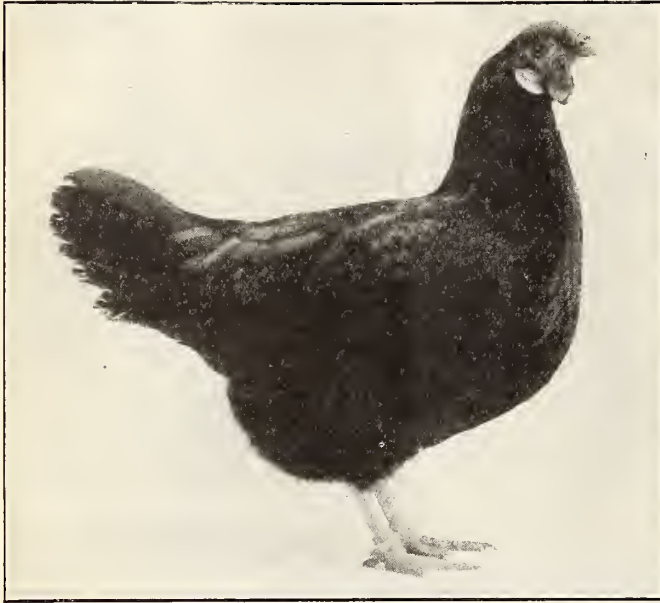
Bred to fill the egg basket in Winter and Summer, and they do it!

Hatching Eggs from 200 to 267 egg record trapnested

S. C. White Leghorns

Our years of trap-nesting and experimenting has produced layers that can't be beat. Our layers have records from 200 to 267 big white eggs in one year. These egg machines are mated to vigorous males bred from 267-egg record hens. A visitor to our farm always means a buyer. They are always singing, scratching and laying big white eggs. It's not the way we feed, it's the way we breed. We will furnish you with hatching eggs at these low prices: Eggs from 200 to 220-egg stock, \$2 per 15, \$10 per 100; from 220 to 267-egg stock, \$3 per 15, \$15 per 100. You need hatching eggs from our stock if you want winter layers. Order now and get your eggs when you want them. Safe arrival guaranteed.

THE PURITAS SPRINGS POULTRY FARM S. J. Schenk, Mgr. WEST PARK, OHIO
MAIL ADDRESS, BOX 104, ROUTE 2, BEREA, OHIO



S. C. Black Minorca hen that won two firsts, two color specials and one silver cup for best female in the show. Owned by John L. Brown, 1515 West 7th St., Anderson, Ind.

First prize S. C. White Leghorn at Greater Chicago Show, January, 1918. Owned by E. J. Rood, Webster City, Iowa.

soup plates it will furnish water all day for 12.

The secret of good setting, in my experience, was in having a separate house for setting purposes, away from the laying hens. You know it doesn't matter how much the setting hen tries to tend her own business, there is always one that will upset her, by laying in the nest with her, that is the reason I conceived

the idea of separating them. Someone says how did you move her if she went to setting? That is easy enough; wait until she has finally concluded to set and has thoroly taken the nest. Then arrange her eggs in the nest, in which she is to set, after dark lift her carefully from one to the other, stroke her gently a few times to show her you meant no harm and right there she will stay.

Around each hen that I set I placed a screen (you can have them made of heavy wire), inside of which leave plenty of room for feed and water; of course, have them high enough to prevent them flying over. Mark your baby chicks in the web of the foot to prevent others claiming them. I prevented serious trouble once by having mine marked. I saw one of my neighbors chasing a good

ANDREWS

New Egg Carrier & Poultry Supplies



Shipping the Nation's Eggs

THE task before the Nation is to save—save coal, save wheat, save sugar, save eggs. Statistics prove that one egg in every four is lost between nest and table and that much of this waste is due to poor shipping facilities. Every poultryman in America knows what that means—more cost in marketing—less profits in return. It's up to you to stop the leak. Here's how I've helped countless others to make more money by losing less eggs.

My new Egg Carrier solves the shipping problem. Each egg is protected and packed in individual boxes that fit tight, preventing jolts and jars. It can be used many times over, always with the same infallible protection of its first trip. To many it has become almost indispensable and the following prices tell why.

Commercial—per doz.	
1 doz. size \$.80	4 doz. size \$1.55
2 doz. size .95	5 doz. size 1.85
3 doz. size 1.25	10 doz. size 3.60
Hatching—per doz.	
15 egg size \$1.10	50 egg size \$2.60
30 egg size 1.95	100 egg size 4.90

HERE are several articles of the famous Dollar making line. Each is a standard of its kind.

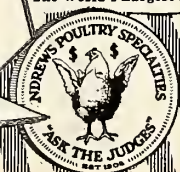
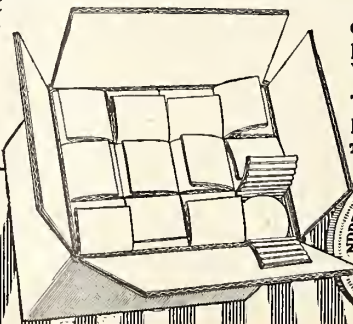
Andrews' Egg Trays—absolutely the most convenient and safest way in the world to collect eggs.

Andrews' Irrigated Apparatus—Guaranteed mite and lice proof. Every poultryman who cares for the life of his birds ought to have this apparatus. You can't beat it.

Andrews' Poultry Remedies—Andrews' Disinfectant and Dip, Andrews' Death Louse, Andrews' Poultry Medicine and Andrews' Obaco. These reliable remedies have saved the lives of many of my finest birds.

We prepay freight on orders of \$10 or over. On smaller orders enclose parcel post charges, otherwise goods will be sent express collect. Address

THE O. B. ANDREWS COMPANY
 Dept. A Chattanooga, Tenn.
 The World's Largest Poultry Specialty Manufacturers



looking Plymouth Rock rooster around and around, finally the chick ducked into my yard. I said, "Mr., that's my rooster." "O no, madam," he replied (just as he caught him), "I bought him at the market house." I said, "How is he marked?" there I had him. After showing my mark, was sure he was trying to steal the chicken.

No doubt many hesitate on account of the price of poultry feed. However, it is a comparatively small matter when you command fancy prices for your stock. Let people know about them by advertising thru the press. Fancy birds are so scarce they will flock to you.

MRS. MATTIE F. SETTLE,
R. F. D. No. 2, Nashville, Tenn.

A Report from New Hampshire.

Editor AMERICAN POULTRY JOURNAL:

In reading your February number, I noticed that another brother reader had sent in an account of his flock of hens for the past year and as you ask for more of these records I take the liberty to send you the following figures from one of my pens of White Plymouth Rocks.

These chickens were hatched April 3, and on September 23 I received my first egg. After selling the cockerels and culling the pullets, I had forty-three birds on hand, which stood me just \$20.50, not figuring labor.

EXPENDITURES.

September 23, 1916.	
43 White Plymouth Rock pullets.....	\$ 20.50
Scratch feed	54.63
Dry mash	21.98
Cabbage and green food.....	4.78
Beef scraps and sour milk.....	2.50
Grit, shells and charcoal.....	2.17

\$106.56

RECEIPTS.

Amount received for eggs to September 23, 1917	\$180.77
Dec. 23, sold pullet	1.00
Jan. 22, sold fourteen pullets (molting) ..	14.10
March 11, lost pullet.....	
April 15, lost pullet.....	
July 30, lost two pullets (severe heat) ..	
Aug. 17, sold one pullet.....	1.00
Sold balance of pen (23 pullets).....	31.24

Total receipts

Total expenditures

Balance

Average price received for eggs for year, 48 cents.

Dover, N. H. ALBERT W. SMITH.

Illinois Living Up to Her Opportunities.

The State of Illinois, thru its State Agricultural Extension Service and State College of Agriculture, has accepted the services of four Extension Poultry Husbandmen of the U. S. Department of Agriculture. Illinois knows the tremendous responsibility that rests upon her as a food producing state and she is doing her part loyally, eagerly and unselfishly to win the war thru service at home as well as service on the fields of battle. The Government poultrymen are here to do a man's work—feel free to call on them.

Poultry Fence

**34 1/2c
A ROD**

KITSELMAN POULTRY FENCE is made of Open Hearth Basic steel wire, drawn annealed and galvanized in our own mill. A strong, durable, closely-woven, RUST RESISTING FENCE that will last for years, requires fewer posts, no base board or top rail. **NOT A FLIMSY NETTING BUT A POULTRY FENCE.** Stretches perfectly and stands up on the posts like a farm fence—does not sag, bag or buckle. You can't beat Kitzelman Fence for quality, and it's **Shipped From Our Factory**

Direct to You and Your Neighbors Too



Our big free Catalog with **Reduced** money-saving prices shows many styles of Poultry, Farm and Lawn Fence at prices that will keep a nice saving in your own pocket where it belongs. It tells how we make wire, why it's better and why **Kitzelman Fence** is the most economical fence to buy. Write today.



KITSELMAN BROS. Box 295 Muncie, Ind.

IT'S FUN TO WORK WITH

**PAPE'S SINGLE COMB
BLACK MINORCAS**



it does you good every day, and think of the satisfaction of producing your own Championship Prize Winners for next Season and having a succession of glorious large white eggs and delicious table fowl. They also offer the foundation for a profitable business.

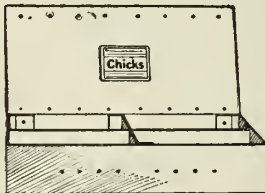
Am offering carefully mated pens (all laying), cockerels that will improve any flock and specialize on **EGGS THAT WILL HATCH** and **CHIX THAT WILL THRIVE** — quality and prices alike will please you. Mating list is free, please state requirements. Safe arrival and a good hatch is guaranteed.

CHARLES G. PAPE, Box B74, Fort Wayne, Indiana, U. S. A.

TARBOX'S Silver Wyandottes, Red and Speckled Sussex

Winners at America's leading shows. This last season at the Illinois, Iowa, Wisconsin and Texas State Fairs and at the Chicago Coliseum, Milwaukee and Cleveland shows, our Wyandottes and Sussex won twice as many firsts as all our competitors combined. We have a fine lot of birds for sale at prices that will please you. Only a few cocks and hens left. **EGGS** at reduced prices. Wyandottes, \$3.00, \$5.00 and \$3.00 per 15; \$35.00, \$20.00 and \$12.00 per 100. Sussex, \$5.00 and \$3.00 per 15; \$20.00 and \$12.00 per 100. Utility matings in either at \$6.00 per 50, \$10.00 per 100. The above prices take the eggs from the same pens as we will hatch from. If you want some of them you better order early, as we are booking many orders now. Write us for what you want and get catalog and mating list.

A. & E. TARBOX - Box A - YORKVILLE, ILLINOIS



Insure Your Chicks—

while enroute by using "Premier" Chick Boxes. Millions of chicks will be shipped in these boxes this season because big shippers recognize "Premier" Box safety, economy and convenience.

Also Egg Boxes, Coops and Baskets direct from factory at manufacturer's prices. **WHOLESALE PRICE LIST FREE.**

WESTERN BOX AND BASKET CO. OMAHA, NEBRASKA

**Orpingtons Buff and Black
Middlemarch Champions**

The Products of My 11 Years Successful Breeding are the Famous

Eggs, \$2.50, \$5.00 and \$10.00 per fifteen. **TEN LIVE CHIX GUARANTEED.** Jessie F. Gordon, Box 535, Spring Valley, Minn.

America's Best Wyandottes

SILVER GOLDEN WHITE

Winners of over 400 premiums at Madison Square Garden, New York, and Chicago. Six firsts at the Greater Chicago Show last month. They won thousands of premiums at all the leading shows for our customers. We have 500 head of very choice exhibition and breeding birds at bargain prices, line-bred for 32 years. They have the size, shape and color. Can fit you out with almost anything you may want in this line. Eggs, \$3 and \$5 per setting. Also Golden Sebrights. Large illustrated circular.

IRA C. KELLER, Brookside Farm - Box 75, Prospect, Ohio

TYPEWRITERS

\$10 and up. All makes. Save \$25 to \$50

on rebuilt at the factory by the well-known "Young Process" Sold for low cash—installment or rented. Rental applies on purchase price. Write for full details and guarantee. Free trial.

YOUNG TYPEWRITER CO. Dept. 534, Chicago





First old pen and first young pen S. C. White Leghorns at Greater Chicago Show, January, 1918. Owned by Wilburtha Farms, Trenton Junction, N. J.

Wants Milk Producers' Association to Help.

Editor AMERICAN POULTRY JOURNAL:
 Educate the farmer as to the cost of egg production. I am not a farmer, but live out on the farm and am in touch with farmers every day. We have very few poultry farms in the neighborhood, but every farmer keeps from 100 to 400 hens, and these furnish the bulk of cold storage eggs.

In the little town in which I trade, the three grocers receive and ship some 150 cases of eggs every week during the heavy laying season. This condition prevails throught this whole territory.

But these farmers have no idea what it costs to produce a dozen eggs, since they raise their own feed and never stop to consider cost of production. Even if I argue with them that egg farming under present feed prices is a losing game, they will admit this to be true because I must buy feed, but it never seems to occur to them that their feed is worth just as much as I pay.

They go on taking the price the grocer offers and seldom complain. Over against the great number of these farmers, the real poultry farms are a small minority and as such powerless to do anything. Therefore I say get next to the farmer and wake him up. Once let him understand that he is losing money on eggs and the egg price will take care of itself.

What makes me believe this? The milk situation. Two or three years ago and before that, the farmer was getting 90 cents to \$1.25 per hundred for his milk and seemed satisfied, never dreaming that that milk price was below cost of production. Then some Experiment Station experts on milk cost and the Milk Producers' Association woke him up. Result: the farmer is receiving \$3.10 for his milk and is asking for more.

If the Milk Producers' Association could be induced to include eggs in their program, the fight for a fair and just price on eggs would be won.

I do not wish to be considered as thinking a union between the milk and egg forces the only solution, if a better way can be found, but do not forget that the majority of milk producers are, in the aggregate, also heavy egg producers. By joining forces with the Milk Producers' Association we egg producers would be able to help kill two flies at one swat. In any event, wake up the farmer. Get in touch with the Milk Producers' Association.

The feed situation is bad here, it's fierce. Right here in the heart of the corn belt no corn. Corn shipped in "don't feed," as the farmers say. It doesn't. Try as I may I cannot get the eggs out of my hens as in other years. Scratch feed is \$4.25 and eggs are 30 cents.

I want to encourage your stand against high record layers. I trapnest and also have hens with records above 200. What of it? In most cases they are freaks and very often their eggs don't hatch. I haven't a chick yet from my highest record hen. The number of 200-eggers is very, very small. Give me the high normal producer—as Parks had it in a recent article—and I don't want a hen with a 265 record. By the way, why so many claims of a record of 265 eggs? There must be some charm in that number, or is the number intended to con-



Help Uncle Sam By Producing More Poultry

Do not waste valuable food by feeding inferior birds at this critical time. If your flock is not producing satisfactory returns you need more vigorous stock. **CUT OUT THE SLACKERS AND GET A FRESH START.** You can depend on Wilburtha Farms to properly supply your needs. We have this season already hatched thousands of sturdy chicks like those illustrated in this advertisement. We know our birds are right as to health, strength and vigor, as well as to their ability to produce blue ribbon winners at the world's great poultry shows and heavy layers in the egg-laying contest. Our 1918 mating list tells the whole story, or you can order from this ad. Right now is the most favorable time of the year to hatch superior birds.

White Leghorn eggs, \$10.00 per hundred eggs.

Rhode Island Red eggs, \$12.50 per one hundred.

White Plymouth Rocks, \$12.50 per one hundred.

Eggs from our best exhibition matings headed by winning birds at New York or Chicago, \$10.00 per fifteen eggs.

Chas. J. Fisk
Owner
M. L. Chapman
Gen. Mgr.

Wilburtha
POULTRY FARMS

27 River Road
Trenton Junction
New Jersey

SIMPLEX FAULTLESS Baby Chick and Growing Stock Feeder

(Also Recommended for Full Grown Birds Being Raised in Low Coops.)
CAPACITY 5 QUARTS—EXCEPTIONALLY USEFUL



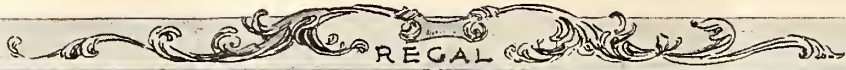
Raising Baby Chicks and instilling vigor into the growing stock depends greatly upon the feeding methods employed by the breeder. Young stock should be fed little but often—you know it's a big job to take care of them properly—then again, the feed they don't eat at once lies on the ground—gets soiled—unfit to eat. The **SIMPLEX FAULTLESS GROWING STOCK FEEDER** will keep the feed sweet and clean. It's always on the job—feeds the chicks when they are hungry—never too little; never too much. It's a pleasure to watch the little fellows work around the feeder and to know that they are being fed just right, that every kernel of feed they consume increases their weight and vitality, thereby producing larger birds with less work on your part.

NOT ONLY FOR BABY CHICKS

This feeder will work equally well if used for feeding full grown birds and is recommended for use in low coops. It holds five quarts, will feed any kind of feed either mixed or separate—it is built on the principle of our larger "FAULTLESS" Feeder and is furnished complete with bracket, which can be attached to the wall or side of a coop at proper height. This feeder is beautifully painted (dark brown) and with ordinary care it will last forever. It is guaranteed to feed your stock perfectly from the time the chicks are able to eat until ready for the axe.

No.	Capacity	Diameter	Hopper Height	Height Over All	Shipping Weight	Price
151A	5 qts.	8 1/2 in.	7 in.	14 in.	4 lbs.	\$1.00

SIMPLEX SUPPLY HOUSE, 1300 Pontiax Bldg., CHICAGO, ILL.



REGAL WINNERS AT SYRACUSE, NEW YORK STATE FAIR, SEPTEMBER, 10-15, 1917
BRED AND OWNED BY JOHN S. MARTIN, DORT DOVER, CANADA.

A PAIR OF PRIZE-WINNING WHITE WYANDOTTE FEMALES.

vey the subconscious thought of 365, or an egg a day the year around?

I hope you will think favorably of suggestion to join forces with the Milk Producers' Association and push it along with might and main.

Evansville, Wis. F. W. WENZEL.

(Note—Mr. Wenzel's suggestion to ask help of the Milk Producers' Association in securing a price for eggs based upon cost of production, is a very good one. We hope our readers will take it up with their local Milk Producers' Association representatives and also push it

with their Experiment Stations. Egg prices need adjustment on a basis of production costs so as to net a "fair and just profit" to producers. Grain and feed grown on the farm, if fed to poultry, should be figured at whatever price it would bring if sold for cash. It is the rankest folly to assume that because a man grows the grain it costs him nothing. If anyone asked him for the grain in these days we do not believe he would figure its cost that way.—Ed.)

Eggs are most necessary for children and invalids. Particularly are they

necessary for nourishing and strengthening our wounded boys in the hospitals "over there" and here at home. Our soldiers and sailors need eggs, more eggs, and yet more eggs, to help to win them back to health and strength. The busy, patriotic American hen will "do her bit" and a very big "bit" it is. All she asks is that Mr. Hoover and the people give her and her owners a square deal and a fair chance to make good.

Pratts

Start Them Right

For the first three weeks, the danger period, feed

Pratts Baby Chick Food

a "baby food for baby chicks." It's "life insurance" for your chicks. Builds bone and muscle—prevents digestive troubles—removes the risk from chick growing

CHICK NECESSITIES

In addition to Pratts Baby Chick Food and Poultry Regulator, you should have on hand for quick use

Pratts White Diarrhea Remedy
to prevent and overcome white diarrhea and other bowel troubles.

Pratts Lice Killers
to exterminate destructive vermin. In three forms—Powdered Lice Killer, Lice Salve and Head Lice Ointment.

Pratts Poultry Disinfectant
to keep brooders and coops sanitary and free from disease germs.

Pratts Red Mite Special
which is sure death to the profit-killing, blood-sucking mites.
"Your Money Back If You Are Not Satisfied"

435 Write for Chick Book—FREE

PRATT FOOD COMPANY
Philadelphia Chicago Toronto

Pratts

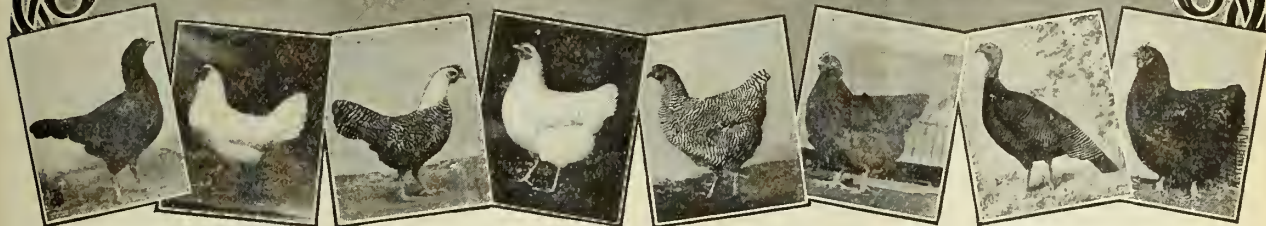
Keep Them Growing

to early, profitable maturity by feeding a good ration with

Pratts Poultry Regulator

Not a food, but a positive tonic and general conditioner. Induces rapid growth and early maturity, which means eggs when eggs are "golden"—in the winter.

CLASSIFIED ADS.



UNDER this heading ads will be inserted for seven cents per word each month for less than three months, or **six cents per word each insertion for three months or longer.** Changes in copy allowed every three months. Numbers and initials count as words. All ads will be inserted under **classified headings.** No ads accepted at less than an average of 60 cents per insertion. Terms, cash with each ad. Count the words carefully to avoid delay in publishing. Write your copy plainly, as upon this the correctness of your ad largely depends. When placing your ads remember that advertisers using Classified Ads get better returns from AMERICAN POULTRY JOURNAL than from any other poultry journal—none excepted. On writing any of these advertisers, mention AMERICAN POULTRY JOURNAL. **All copy for Classified Ads must reach us by the 17th of month preceding the date of issue.**

AMERICAN BREED

NEW AMERICAN BREED — Patriots; color, red, white and blue. Send for circular. Westboro Farms, Westboro, Mass 4-6

ANCONAS.

ANCONAS—BABY CHICKS, 20 cents; hatching eggs, \$1 and \$1.50 per fifteen. Cleve Feuerhaken, Ontarioville, Ill. 3-5

THOMPSON'S MATCHLESS ANCONAS—Champion laying strain of world—331 eggs one year. Mating list free. E. C. Thompson, 4244 Pcnrose St., St. Louis, Mo. 3-5

GIES' ANCONAS ARE winners at New York, Guelph and Toronto. Catalog with official trap-nest egg records up to 272, testimonials with affidavit free. Oscar G. Gies, Bridgeport, Ont., Can. 3-5

ANCONAS—SINGLE COMB. Chicks, eggs and stock. John Biehler, Box A, Strasburg, Ill. 3-6

BUY YOUR SINGLE COMB Ancona eggs for hatching and baby chicks this season from a trap-nested winter laying strain. We have them. Descriptive price list free. H. E. Errett, Box B, Nevada, Mo. 3-5

S. C. ANCONAS bred from Sheppard's famous strain; farm range, best stock; eggs, \$1.25 per 15; \$5 per 100. Mrs. Jerry Brinker, Mt. Erie, Ill. 3-5

S. C. ANCONAS—good dark birds, have won at Illinois and Indiana State Fairs, 1917. Eggs, 15, \$1.25; 100, \$6. Virgil Vaught, Judson, Ind. 3-5

ANCONAS EXCLUSIVELY — Either comb; winners at leading shows; winter layers; mating list now ready. Excellent quality for the prices. Chester C. Miller, Berlin, Neb. 3-5

CARDELL'S PEERLESS STRAIN Single Comb Anconas; eggs, \$2 and \$3 per 15, from 237 to 281-egg hens; mating list. F. L. Cardell, Northfield, Vt. 3-4

S. C. ANCONA eggs, 15, \$2; chicks, 2c. Sheppard strain. Bessie Brinkerhoff, Springfield, Ill. 3-4

S. C. ANCONA eggs, \$2 for 15. Good, vigorous, dark birds. Leonard Cox, Mt. Victory, Ohio. 3-5

A. M. MORTIMER, Wauseon, Ohio, the largest Single Comb Ancona breeder in Northwestern Ohio. Eggs, \$1.50 up per setting. Special price per 100. 3-5

SINGLE COMB ANCONAS—Farm range. Eggs for hatching, \$1.50 per setting, or \$6 per 100. Carl Ebert, Whittemore, Iowa. 3-5

ANCONAS—BOTH COMBS. Send for mating list and winnings. J. C. Saunders, Wauseon, Ohio. 3-5

S. C. ANCONAS—Baby chicks, 30 cents each. Eggs, \$3 per 15. Order early. Live delivery guaranteed. De Queen Hatchery, Hatfield, Minn. 3-5

EGGS — SHEPPARD'S S. C. Anconas. Write S. J. Shadel, Star City, Ind. 3-5

SINGLE COMB ANCONAS — Eggs for hatching; satisfaction guaranteed. Write for circular. The Bradleys, Britton, Mich. 3-4

SHATTO'S ANCONAS — Superior quality. Wonderful laying strain. Eggs reasonable. Satisfaction always. Guy Shatto, Dunkirk, Indiana. 3-5

BRED-TO-LAY all the year Anconas—Eggs, \$2.50 per 15. E. W. Hopkins, Waynesville, Ohio. 3-5

SINGLE COMB ANCONAS—Leading strain. Carefully bred, trapnested and exhibition quality. Eggs, 15, \$3; 30, \$5.50; 100, \$14. Fertility guaranteed. Sunny Brook Poultry Farm, Niles, Mich. 3-5

SINGLE COMB ANCONAS exclusively — Grand, large, dark birds. The very greatest egg producers and winter layers on earth. Eggs for hatching, \$1.50 per 15, or \$7 per 100. Breeding stock for sale. George C. Schwegman, Richmond, Indiana. 3-5

SOUTHARD'S SNOWDROP ANCONAS—Silver cup winners, 1917-18 shows. Eggs, \$2 per 15, \$12 per 100, \$100 per 1,000; finest exhibition, \$5 per 15. Utility chix, 20c each. Frank Southard, Ledford, Ill. 2-7

C. A. KNIGHT, Olena, Ohio, Ancona specialist. Eggs and chicks. Free catalog. Unequaled show record. 3-5

S. C. ANCONAS—Splendid layers. Eggs, \$1.50 per 15; \$2.75 per 30; \$8 per 100. A good hatch guaranteed. Earl Lee, Witt, Ill. 3-5

SINGLE COMB ANCONAS — Sheppard's strain. Also Buff Rocks. Blue ribbon winners Wisconsin, 1918. Heavy laying strain. Eggs, \$2.50 and \$2 per 15. Satisfaction guaranteed. Reinke Bros., Middleton, Wis. 3-5

S. C. ANCONAS — Sheppard Strain, heavy layers. Pen 1, 15 eggs, \$2; 30, \$3.50; 50, \$5. Flock, 15, \$1.50; 100, \$7. Ella Whitwood, Hudson, Ill. 2-5

ANCONAS — SINGLE AND ROSE Comb, prize winners and egg producers, good type and nicely mottled dark stock. Eggs, \$2 per 15. Cockerels, \$3.50 to \$5. E. A. Berkner, Sleepy Eye, Minn. 2-4

HEADQUARTERS FOR TYPICAL Single Comb Anconas, Sheppard Strain. Circular. Edw. W. Meyer, Lawrenceburg, Ind., R. 2. 2-4

S. C. ANCONAS—Baby chix, 30 cents each. Eggs, \$3 per 15. Good stock, fine layers. Miss L. L. Garvin, Rural Box 52, Wheeling, W. Va. 2-5

ANCONAS—IMPROVED stock. Eggs, \$2 per 15; \$10 per 100, delivered; guarantee fertility. Wm. Willenberg, Effingham, Ill. 2-4

BABY CHICKS And hatching eggs from my high egg record Single Comb Anconas. Queen Anne has a record of 292 eggs in one year. Mating list free. Ruten's Ancona Yards, 2207 Vine St., Quincy, Ill. 12-4

SHEPPARD'S FAMOUS ANCONAS —The World's Best. See display ad page 442. Cecil Sheppard, Berea, Ohio. 11-16-1yr

SINGLE COMB ANCONA baby chix, 25 cents; hatching eggs, \$2 per setting; all from 250-egg strain; furnished in any quantity. Address W. R. Vane, Box 75, Mokence, Ill. 2-4

S. C. ANCONAS; headed by Sheppard's \$50 prize male (1st cockerel, 1917, and 1st cock, 1918, Greater Chicago); 200-egg record hens; great winter layers; eggs, chicks and stock for sale. Send for mating list. T. H. Holmes, River Forest, Ill. 2-4

ROSE COMB ANCONAS; blue ribbon winner, Chicago Coliseum, 1917; eggs, \$2.50, \$5, \$10 per 15; satisfaction guaranteed. Dorendorp, 2047 Dayton St., Chicago, Ill. 2-4

BEFORE ORDERING YOUR Single Comb Anconas consider my bred-to-lay strain; eggs \$2 per 15; chicks, 25c each. Jos. Hughes, Irving, Ill. 2-4

ANCONAS—BEST WINTER layers on earth. Eggs for sale. West Side Poultry Farm, Marmouke, Ark. 2-4

EGGS FROM DARK Mottled two-year-old Single Comb Anconas, extra good laying strain, \$1.50 per setting; \$2.50 two settings; \$7 per 100. Julius Stackman, Cameron, Wis. 4-5

ANCONAS — BETTER VALUE for less money; free circular proves it. H. MacKenzie, Sheboygan Falls, Wis. 4-6

EGGS FOR HATCHING—Pure bred S. C. Anconas, grand show birds; \$1.50 per 15 eggs, \$4 per 50, \$7 per 100. Satisfaction guaranteed. Harry Getzelman, Hampshire, Ill. 4

S. C. ANCONAS—Prize winners and splendid winter layers; birds scoring 90 1/2 to 94. Eggs, \$2 and \$3 per 15. Edw. Ripplloh, Minster, Ohio. 3-5

ROSE COMB ANCONAS—Fine trios, \$10. Eggs, \$1.50 for thirteen, \$6 for fifty, \$10 for hundred. Dr. Fiester, Austin, Minn. 4

PRITCHARD'S GENETIC Anconas — Bred with care. Frank P. Pritchard, Naturalist-Breeder, Fairmount, Ill., Route No. A2. 11-17-1yr

SINGLE COMB ANCONA EGGS—\$1.50 per 15, \$6 per 100. Heavy laying strain. Prize winners. Mrs. E. C. Webster, Charles City, Iowa. 4-6

DEL CANTO S. C. ANCONAS—The world's egg producing machines; good type, nicely mottled. They are bred to lay. Eggs, \$2.50 and \$3 per fifteen. Frank del Canto, Stonehouse, N. Y. 4-6

ANCONAS—SHEPPARD STRAIN —Cockerels and pullets, \$2 up. Eggs, 15, \$1.50; 100, \$8. Johnson, 4322 N. Albany Ave., Chicago, Ill. 4-5

WAR! WAR! —GET a setting of Ancona eggs from the world's best laying strain and win. Frank W. Mains, Farmingdale, N. J. 4-5

STOCK AND EGGS —Sheppard's famous Rose Comb Anconas. L. S. Rawson, Brattleboro, Vt. 4-5

GUARANTEED EGGS —Beautiful Single Comb Anconas, record layers; 15, \$3; 100, \$14. Mammoth Pekin ducks, 11, \$2. Circular. Stanley Dillman, Gienbeulah, Wis. 4

S. C. ANCONAS—A real laying strain of show birds. Eggs from first pen, \$2 per 15, \$10 per 100. Baby chicks, 25c each. Satisfaction guaranteed. Harold E. Merchant, Savanna, Ill. 4

S. C. ANCONAS—Sheppard strain. Eggs and baby chicks in season. Circular free. G. Floyd Ward, Rossie, N. Y. 4-5

ANCONAS —Chicks, \$15 per hundred. Eggs, \$9 per hundred. John Timms, Malta, Ohio. 4

ANCONAS—SHEPPARD Strain. Fine dark birds. Splendid layers. Eggs, 15, \$1.50; 50, \$4.00. Mrs. H. M. Buchele, Ada, O. 4

ANDALUSIANS.

BLUE ANDALUSIAN cockerels for sale—Blue ribbon quality price, \$3 to \$5. Eggs for hatching. Herbert Goetsch, Waltham, Minn. 3-4

TRUE BLUE ANDALUSIANS (the beauty breed—the birds that lay and pay) bred from and for prize winners with pure blue and finely laced markings; large, weighty, white eggs and lots of them all year. Settings, first pen, \$2.50; second pen, \$1.50 per fifteen eggs; hundred lots special price. Gus A. Kneuss, Ottawa, Ill. 2-5

BLUE ANDALUSIANS—Eggs, \$1.50 per 15, from blue ribbon winners. Rae Penniman, Dalton, Wis. 4-5

BLUE ANDALUSIANS—Fine markings; bred to lay and win prizes; excellent for table food, and lots of white eggs. Eggs, \$2 and \$3 per fifteen. Frank del Canto, Stonehouse, N. Y. 4-6

ANDALUSIANS—CANADIAN—English egg strains, \$1.50 per 15. Fertility guaranteed. J. Brasser, Lewiston, N. Y. 4-5

BABY CHICKS.

BARRED ROCK BABY CHICKS—Good stock. Rock Range Poultry Yards, Sauk City, Wis. 3-5

BABY CHICKS—S. C. W. Leghorns. Eggland Hatchery, Mt. Vernon, Iowa. 3-6

4,000 RHODE ISLAND RED chicks weekly in March, April, May, June, from novel, evenly heated, 18,000-egg gas hatchery from New England's best winter egg layers at \$18 per 100. Arthur B. Colby, 559 S. Main St., Manchester, N. H. 3-5

REGAL STRAIN WHITE Wyandotte chick—Table use. \$13 per 100; 250-egg line, 25 for \$14.50. Remember these are show birds that will win. We replace dead chick. Mrs. Julius Arp, Okoboji, Iowa. 4

SIX WEEKS OLD chicks, 39c each; pound size, 70c. All varieties. Best strains, 250 eggs. Winter Egg Farm, Hillsboro, Ill. 4

SINGLE COMB WHITE Leghorn day-old chicks. A. F. Tate, Toledo, Ill. 4

BABY CHICKS—Single Comb White Leghorns, from choice selected yearling hens, mated to cockerels bred from 200-egg hens. Also hatching eggs. Prices reasonable. Send for circular. Harry F. Palmer, Box C, Middleport, N. Y. 4

BABY CHICKS—From pure bred, free range stock. Barred Rocks and R. C. Reds, 14c each; White Leghorns, 12c each. Safe delivery guaranteed. Order now. F. M. Pfeiderer, Tiro, Ohio. 4

PURE-BRED CHICKS—Barred Rocks, Buff Rocks, White Wyandottes, White Leghorns and Rhode Island Reds. Write for prices, stating quantity and breed desired. The F. E. Leighton Co., Durand, Mich. 4

WANT LAYERS? Baby chicks from trapped White Wyandottes, 15c each; from special pens containing my best layers, 20c. Unequaled for vigor and laying qualities combined. E. W. Schaperkotter, Valley Park, Mo. 1-4

BETTER BABY CHIX—Rocks, Reds, Wyandottes, Leghorns, \$16 per 100. C. W. Zelle, Appleton, Wis. 4-5

200,000 CHICKS for sale at very reasonable prices. White Leghorns, Brown Leghorns and Anconas, the best stock in the country. Catalog free. Wyngarden Hatchery, Zeeland, Michigan. 4-6

"SUNBEAM HATCHERY"—Baby Chicks for sale from leading varieties, including Rocks, R. I. Reds, Leghorns, Anconas, Wyandottes, etc.; reliable service guaranteed; order now for early delivery. H. B. Tippin, 2433 S. Main St., Findlay, Ohio. 4-18-1f

BARRON-WYCKOFF, HIGH producing Single Comb White Leghorns; Hogan tested; free range stock; safe delivery; \$15 per 100. Linesville Pullet Hatchery, Linesville, Pa. 3-5

DAY-OLD CHICKS from large winter laying S. C. White Leghorn yearling hens. Also Barred Rock, Rhode Island Reds and several other popular varieties of chicks. Booklet free. Richard Schwartz Lomira, Wis. 3-5

BABY CHIX—\$15 per 100, from healthful, selected, yearling hens, mated to males out of 200 to 249 egg record dams. Eggs for hatching from same only \$7.50 per 100. Write for mating list. Dr. Prudhomme, Thurmont, Md. 3-5

BABY CHICKS—20 leading varieties. Safe delivery guaranteed. Price list free. Largest hatchery in Middle West. Miller Poultry Farm, Box T, Lancaster, Missouri. 3-5

50,000 BABY CHICKS—Two and four weeks chicks. S. C. White, Brown Leghorns, Black Minorcas, Barred Rocks; hatching eggs. Catalog, stamp. Falling Poultry Farm, La Fargeville, N. Y. 3-7

BABY CHICKS—Standard bred. The better kind. Leading varieties. See ad in this issue. Seneca Poultry Farm, Box 4, Tiffin, Ohio. 3-5

PURE BARRON LEGHORN chicks—278-egg imported stock. G. L. Poole, Garrettsville, Ohio. 3-5

20,000 BRED-TO-LAY White Leghorn chick—\$15 per 100. Free catalog. A. H. Schlosser & Son, Box B, Bettendorf, Iowa. 3-4

BABY CHIX—YOUNG'S strain S. C. W. Leghorns and B. P. Rocks; free range stock; safe delivery guaranteed; catalog free. Knoll's Hatchery, Holland, Mich, Rt. 3. 3-5

SINGLE AND ROSE COMB Rhode Island Red baby chicks from heavy laying strain. Mrs. Ray Marr, Chatsworth, Ill. 3-4

CHICKS—200,000 BARRED Rocks, Rhode Island Reds, and S. C. White Leghorns. Nittany Valley Poultry Farm, Mingoville, Pa. 3-5

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BABY CHICKS—Orpingtons, Rocks, Reds, Wyandottes, Minorcas, Campines, Anconas and Leghorns, 12c to 15c each. Broilers, \$12 per 100. Pound pullets and cockerels a specialty. Chicks ready for delivery in March. Booking orders now. Satisfaction guaranteed. Delaware Hatchery, Delaware, Ohio. 3-6

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BUCKEYES—WINNERS TWELVE years. Eggs. Mayradon Poultry Yards, Carey, O. 4

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BUCKEYES—PENS HEADED by prize winners. Mahon's strain. Eggs, \$2 and \$3 per fifteen. Order now. Chas. F. Ellis, Sycamore, Ohio. 4

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SICILIAN BUTTERCUPS, excellent layers; 15 eggs, \$1.50. Hazel Whitwood, Hudson, Ill. 3-5

BUTTERCUPS—HATCHING EGGS, \$2.00 for 15. A. Lillis, 445 N. Saginaw St., Pontiac, Mich. 3-5

BUTTERCUPS—ALVINIAN Strain from hens laying from 260 to 309 eggs, and prize-winners; stock and eggs. Sahler & Sons, Harlingen, N. J. 1-4

GOLD COIN BUTTERCUPS—See page 441 O. B. Disenroth, Lawrence, Mich. 1-18-1yr

QUEEN QUALITY BUTTERCUPS win the blue at every show exhibited—Chicago, Syracuse and Oxford, New York. Only Western breeder winning in the East. If you want eggs from birds bred to win and lay, write for my catalog. H. Court, Kankakee, Ill. 2-4

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BUTTERCUPS—HATTIE REED cockerel and splendid females. Setting, \$3. McPherrin, Buttercup Specialist, 1016 24th, Des Moines, Iowa. 4

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CAMPINES—GOLDEN AND SILVER; hatching eggs from my best, \$5 for fifteen; large catalog with beautiful colored plates and history for ten cents. J. Fred N. Kennedy, Birchcliffe, Ont., Can. 3-5

SILVER CAMPINES for eggs in winter. Eggs, \$1.50 per 15. E. C. Aderhold, Plymouth, Wis. 3-5

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YOU WILL NEED new blood this year. Try my strain Golden Campines. Catalog. Dr. Prudhomme, Thurmont, Md. 4

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BUFF AND PARTRIDGE Cochins, winners Iowa, Illinois state shows. Eggs reasonable. Herman Weinrich Cambridge, Ill. 3-5

BREEDING BUFF COCHIN cocks and cockerels, \$1.50 each. Gold Leaf Bantam Yards, Maspeth, New York. 4

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DARK CORNISH COCKERELS, \$5 each; pullets, \$3 each. Two prize winning cock birds, \$10 each. Eggs, \$3 per fifteen. These birds were all raised from imported stock. John Blanchard, Columbus, Wis. 3-18-1f

DARK CORNISH since 1896. Stock and eggs. L. Madsen, Gardner, Ill. 2-4

WHITE CORNISH FIRST prize, New York. Providence, Syracuse, Hartford; eggs, \$3 for 15, \$5 for 30. L. J. Smith, Deep River, Conn. 2-4

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I HAVE THE BEST Dark Cornish in the Northwest. My show record at Chicago Coliseum, Greater Chicago, Milwaukee, Minneapolis, St. Paul, proves it. Mating list Feb. 15. Stock for sale. Geo. Garbisch, Waltham, Minn. 2-4

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DARK CORNISH—Many firsts and specials. Handsome booklet. Carl W. Beck, Table Rock, Neb. 4-6

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BREEDING QUALITY FOWLS for over thirty years, American Dominiques. Some fine birds for sale. Harry B. Daniels, St. Johnsbury, Vt. 3-4

AMERICAN DOMINIKES — Eggs for hatching of my prize winning stock, \$2 per 15. W. F. Gernetzky, Columbus, Wis. 2-4

MY DOMINIKES WON more first prizes in competition than any other strain in the Northwest at the leading state shows. Eggs for hatching, \$2 for fifteen; \$10 per hundred. Lawrence Holsten, Columbus, Wis. 3-5

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WESTFALL'S CHAMPION SILVER Dorkings—A combination of wonderful beauty and greatest market value; bred to weigh, lay and pay. These are chicks that grow two pounds at two months. More first prizes, silver cups and specials at New York, Boston and Buffalo than all competitors combined. Few birds to spare. No baby chicks. Eggs from best matings, \$4 per 13; \$7 per 26. Watson Westfall, Sayre, Pa. 2-18-1yr

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EGGS \$2.00 PER 13—Black Breasted Reds, Silver Duckwings, Red Pyle, Games. Circular for stamp. Clark Price, Rochester, Mich. 3-4

EGGS FROM CHOICE pen Invader B. B. Red Pit Games at \$1.50 per 13. Box 347, Gary, Ind. 4-6

EGGS \$2 PER 15, Irish Gray Games, prepaid. Vincent F. Sebold, Route 1, Box 177, Latrobe, Pa. 4

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GOLDEN PENCILED HAMBURGS—I have the finest matings I have ever had in this variety. My birds have won the highest honors at Madison Square Garden, Boston, and the Palace, Syracuse. A limited number of eggs will be sold; \$10 for 13, and special matings \$15 for 13. John A. Gamewell, Box No. 1, Little Silver, N. J. 4-5

HAMBURGS.

SILVER SPANGLED HAMBURG eggs, \$1.50 per 15. Matt Koch, Golconda, Ill. 3-4

SILVER SPANGLED HAMBURGS, Black Diamond strain. Highest honors at Madison Square and leading shows of America. Eggs, \$3.00 and \$5.00 per 15. If you want the best and birds that can win in any competition, you should order stock or eggs from Will L. Clark, Sullivan, Ohio. 3-16tf

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PRIZE WINNING SILVER Spangled Hamburg eggs, \$1.25 per 15. Christian King, Bosobel, Wis. 2-4

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JIMCRACK HOUDANS—Supreme in Canada; consistent winners and layers; choice stock and eggs. Jimcrack Houdan Farm, Valentia, Ont., Can. 3-5

EXTRA GOOD STOCK for sale; eggs, \$2.50 per setting. W. L. Eby, 2310 Admiral Blvd., Tulsa, Okla. 3-4

HOUDANS—278-egg strain Silver Spangled Hamburgs; trapnested 7 years; eggs, chicks; circular. Fred Brenon, 122 N. Pleasant St., Watertown, N. Y. 4

HOUDAN AND SILVER Grey Dorking eggs, \$2 per 13. H. Merriam, Ashburnham, Mass. 4-6

WHITE HOUDANS—After April 1 I will spare a few eggs for hatching at \$3 per fifteen. Robt. Shirley, Waterloo, N. Y. 4

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HOUDANS—WINNING STRAIN—1st, 2nd cockerel, 1st, 2nd pullet, 1st hen at Minneapolis; 1st cockerel, 1st, 2nd pullet, 1st hen at Milwaukee National Auditorium Show, 1918. Eggs, \$3. W. H. Hunt, River Falls, Wis. 4-6

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HOUDANS AS THEY should be; all firsts; best display Madison Square; my strain always wins the blue; eggs, stock, circular. H. Dunne, Silver Spring, Md. 2-5

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BAST'S HOUDANS—Champions of America. Hill Crest Poultry Place, W. F. Bast, Proprietor, Phillipsburg, New Jersey. 2-4

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LAKENVELDERS — EGGS for hatching from famous layers. Catalog. C. E. Patterson, Cardington, Ohio. 4-6

LAKENVELDERS—FINE young stock at reduced prices. Dr. C. J. Chamberlin, West Chester, Ohio. 3-5

LAKENVELDERS—GREAT PRODUCERS of eggs, mature early, remarkable plumage; eggs, \$3. Write for circular. Darby Moore, 534 Ontario, Toronto, Ont., Can. 3-4

LAKENVELDER EGGS, \$1.50 per 15; extra selected, \$2 per 15. Alma Eichelmann, Route 4, Waterloo, Ill. 3-5

LAKENVELDERS — EVERLASTING layers, supremely beautiful; eggs, \$2 for 15. Hermitage Farm, Millersburg, Ohio. 3-4

LAKENVELDERS — STOCK and eggs. Rosemere Fruit and Poultry Farms, Eaton Rapids, Mich. 4-5

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WHITE LANGSHANS of quality. Stock and eggs for sale. Alonzo Tyner, Greenfield, Ind. 3-5

BLACK LANGSHAN baby chicks, fancy or utility, from heavy laying strain. Mrs. Ray Marr, Chatsworth, Ill. 3-4

BLACK LANGSHANS—Eggs from prize winners, \$2 per 15. Chas. Zahn, Hagers-town, Md. 3-4

BLACK LANGSHANS from a prize winning, trapnested, heavy winter laying strain. Pen 1, 15 eggs, \$3; 30, \$5; 50, \$8. Flock, 15, \$1.50; 50, \$4; 100, \$7. Ella Whitwood, Hudson, Ill. 2-5

ROBINSON'S LANGSHANS win; Syracuse, Buffalo, Brockton, Providence, Philadelphia, Boston, New York have each yielded blue ribbons; excellent layers; write for mating list. J. F. Robinson, South Weymouth, Mass. 2-4

TRAPNESTED BLACK LANGSHANS — 200-egg strain. Guaranteed 6 months. Catalog. Lorenz Co., Perryville, Mo. 1-5

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BLACK LANGSHAN EGGS—\$1.50 for 15. Order early. Mrs. John Henderson, Leland, Ill. 4

BLACK LANGSHANS—Hagerstown winners. Breeding stock and eggs for sale. Levi Fishel, Dillsburg, Pa. 4

FOR SALE—WHITE Langshan stock; also eggs, \$6 per 100; baby chicks, \$15 per 100. Fred Wallace, Maryville, Mo., R. R. 3. 4

BROWN'S "NONE BETTER" Black Langshans. At last Chicago Show on 3 birds, 1 first, 2 seconds. Championship and shape special. Horace R. Brown, Princeton, Ill. 4

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SHARP'S BLACK LANGSHANS—Hatching eggs from happy combinations of my two great strains—"World's Fair" and "Sharp's Model." Fertility guaranteed. Price list free. T. Warren Sharp, 216 1/2 South 6th, Springfield, Ill. 4

S. C. WHITE LEGHORNS

BARRON-YOUNG-SMITH S. C. White Leghorns. Cockerels, \$2 and \$3 each. Yearling hens, \$2 each; hatching eggs, \$6 per 100. Satisfaction guaranteed. Sunny Acre Leghorn Farm, Sandwich, Ill. 11-4

SINGLE COMB WHITE LEGHORN eggs, from blue ribbon winners; large, blue-white quilled, heavy layers, scoring to 95%. \$2.50 per 15; fine flock eggs, \$1.25 per 15, \$7 per 100. Sadie Sunderland, Jerseyville, Ill. 3-5

SINGLE COMB WHITE Leghorns with records up to 245 eggs. Eggs, 15, \$1.25 to \$4. All males are bred from hens with records of 200 or better. Circular free. J. O. Pierce, Mohawk, Tenn. 3-5

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SINGLE COMB WHITE Leghorns—Young's direct from Madison Square winners; pure white (no brass); heavy winter layers; eggs, \$1.50 per 15; \$6, 100; fertility guaranteed; 1,000 layers' chicks, 12c; catalog free. Hedgewood Farm, Tiffin, Ohio. 3-5

HELP SWAT THE KAISER with Tom Barron Single Comb White Leghorns; all male birds have an egg record of more than 260 eggs in one year. Eggs, \$1.50 per 15; \$6 per hundred. Geo. Morrison, Batavia, Iowa. 3-5

SINGLE COMB WHITE Leghorn eggs from trapnested stock, \$2 per 15. L. P. Bradley, Virden, Ill. 3-5

DAY-OLD CHIX and hatching eggs from trapnested S. C. White Leghorns. Send for circular. Maple City Poultry Sales Co., 34 Adams Ave., Ogdensburg, N. Y. 3-4

SINGLE COMB WHITE Leghorn hatching eggs. Standard-bred, great layers, \$1.25 per 15, \$6 per 100. Oscar Polster, Wheaton, Ill. 3-5

EGGS FOR HATCHING—Single Comb White Leghorn chicks. Buckeye Egg Farm, Sherodsville, Ohio. 3-5

WYCKOFF S. C. WHITE Leghorns—65 acres range. Trapnested, high record hen chicks, from large white eggs, \$25. Supply limited. Book early. 25 percent with order; no catalog. Inwood Farm, Middleburg, Pa. 3-5

30,000 BRED-TO-LAY White Leghorn chix and eggs. Chix, \$15 per 100; eggs, \$7 per 100. Free catalog. A. H. Schlosser & Son, Bettendorf, Ia., Box A. 3-4

ENGLISH WHITE LEGHORNS—Barron strain; eggs for hatching, \$2 per 15. Circular free. White Leghorn Yards, Nelsonville, Ohio. 3-5

S. C. WHITE LEGHORN eggs, \$2 per 15; \$10 per 100. C. O. Tankersley, Lewisburg, Tenn. 3-5

SINGLE COMB WHITE Leghorns—Large sized; 295-egg record; eggs, \$2 per 15; \$6 per 100; \$10 per 200; chicks, 15 cents each; prepaid. Mrs. E. R. Dees, Waltonville, Ill. 3

TOM BARRON STRAIN S. C. White Leghorns—We are booking orders for eggs and baby chicks. Send for circular. Seneca Fancy Table Egg Farm, Tiffin, Ohio. 3-5

S. C. W. LEGHORN hatching eggs from 264-egg strain hens, mated to one of Lord Farm's best cockerels. He is a fine bird from high egg strain, \$3 per 15; range stock, \$2 per 15, \$10 per 100. Joe S. Troutman, Salem, Iowa. 3-5

S. C. W. PEDIGREED Leghorns—Come from stock that won first at Missouri Egg-Laying Contest. Satisfaction guaranteed. Eggs, 15, \$1.25; 50, \$4; 100, \$7. A. L. Ackerman, Rich Hill, Mo. 3-5

YOUNG'S STRAIN SINGLE Comb White Leghorns—Flock average, 140. Eggs from two-year-old hens, \$2 per 15, \$8 per 100. West Side Poultry Yards, Reedsburg, Wis. 3-5

SINGLE COMB WHITE LEGHORNS—Ferris 230 to 260-egg strain. Great winter layers. Eggs, \$3 per 15, \$5.50 per 30. Chas. E. Rodgers, Montgomery, Mich. 3-5

SINGLE COMB WHITE LEGHORNS—"Chic-Haven" strain. Hatching eggs, one dollar and fifty cents for 15; eight dollars per hundred. Baby chicks, twenty cents each. D. F. Swindell & Co., St. Joseph, Mich. 3-5

STOCK AND EGGS from beautiful, snowy Single Comb White Leghorns, 100, \$5. Also bred-to-lay Barred Plymouth Rock eggs. Carefully packed. Mrs. R. A. Homer, Box 95, Smithfield, Ill. 3-5

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SINGLE COMB WHITE LEGHORN eggs—Proposition something new. Hillside Poultry Farm, Council Bluffs, Iowa. 3-5

S. C. WHITE LEGHORNS from a heavy laying strain. Eggs, \$1.75 per 15; \$5.50 per 50; \$10 per 100. 80 percent guaranteed fertile. R. A. Zimmermann Mayville, Wis. 3-4

STANDARD-BRED SINGLE Comb White Leghorns; cockerels, \$1.50 each; 100 eggs, \$5. Bearden Poultry Farm, Thayer, Ia. 3-5

S. C. WHITE LEGHORNS—Farm range; 500 layers. Large white eggs, \$6, 100; \$55, 1,000. Chicks, \$14, 100; \$135, 1,000. E. H. Burcham, Medora, Ind. 3-5

SINGLE COMB WHITE Leghorn eggs for hatching. Pen headed by Wyckoff strain direct. \$1.50 per 15, postpaid. H. C. Harris, Stillman Valley, Ill. 3-5

WHITE LEGHORNS THAT lay and win. Birds and eggs at low prices. J. A. Shine-man, Canajoharie, N. Y. 3-5

S. C. WHITE LEGHORNS—Selected and bred by Hogan System. Score, 250 eggs, 3/4-inch in prepenity. Granview Poultry Farm, Geneva, Ohio. 3-5

S. C. WHITE LEGHORNS—Baby chicks, 20c each; and pullets, \$2. Barron strain. Bred to lay; large, long bodied birds. Forty-acre apple orchard for range. Folly Cove Farm, Holland, Mich., F. E. Brummer, Mgr. 3-5

S. C. W. LEGHORN 200-egg stock and eggs for sale. M. Stockley, Winnetka, Ill. 2-4

YOUNG'S AND BARRON'S strains Single Comb White Leghorns on two different farms; eggs from farm range stock hatch better and are thrifty eggs, \$6 hundred. O. B. Williams, Tuscola, Ill., Route 5. 2-5

FOR BARGAINS in Leghorns and reliable information on all varieties, consult The Leghorn World, Box 12, Waverly, Iowa; 12 big issues at half price, 25c. 2-4

TOM BARRON WHITE Leghorn eggs, \$5 per hundred. Senator strawberry plants, \$1 per hundred. Vinecrest Farm, Emerson, Iowa. 2-4

MY S. C. W. LEGHORNS are the best money can buy, being direct from Young's winning pens, Boston, New York, in 1915; get in the first line trenches by ordering eggs and chicks now; satisfaction guaranteed. Arthur Pyle, Redkey, Ind. 2-4

IMPROVED BARRON SINGLE Comb White Leghorns; trapnested, 200-egg cockerels; baby chicks; hatching eggs; guaranteed. Nelson Dewey, Middleport, N. Y. 2-4

SINGLE COMB WHITE Leghorn; Young's strain direct; eggs of great layers, \$1, 15; \$3, 50; \$6, 100; \$12, 200; \$18, 300; order filled promptly. Henry Heitkamp, New Bremen, Ohio. 2-4

SINGLE COMB WHITE LEGHORN eggs for hatching, \$7 per 100; baby chicks, hens and pullets for sale. Geo. C. Sayres, Cincinnati, Iowa. 2-5

SINGLE COMB WHITE Leghorns—230 to 264 Ferris egg strain. \$3 per 15 eggs. Other pens with lower egg records, \$1.50 per 15 eggs. Baby chicks in season. Satisfaction guaranteed. Harry C. Hanson, 5344 48th Ave. So., Minneapolis, Minn. 4

FULL-BLOODED BARRON cockerels, chicks, eggs; 240-egg strain; heavy winter layers; contest winners; mating list. Devries' Leghorn Farms & Hatchery, Zeeland, Mich., Box 222. 2-4

S. C. WHITE LEGHORNS—Mountain View strain of bred-to-lay stock; mating and price list free. M. G. Sanger & Son, Mt. Solon, Va., R. 2A. 2-4

SINGLE COMB WHITE Leghorn eggs from prize winning stock, \$1 per 15, \$5 per hundred. Henry Gausman, Batesville, Ind., Route 4. 2-5

S. C. WHITE LEGHORN eggs for hatching, \$2, \$3 or \$5 per 15; \$7.50 per 100. Ten grand pens. Stoffer's Poultry Farm, West Allis, Wis., R. 4, Box B. 2-4

TRY THE FAIRVIEW Heights Strain of S. C. White Leghorns. Free range; heavy layers. Chicks, \$14 per 100. Eggs, \$7 per 100. Satisfaction guaranteed. T. M. Jackson, Blanchester, Ohio. 2-4

\$3.25 PER 100 EGGS—Welday's English-American S. C. White Leghorns; world's leading layers; catalog. Welday, Seville, Ohio. 2-4

TOM BARRON Single Comb White Leghorns. Free catalog shows lifelike pictures of our long, deep bodied, big combed thoroughbreds from Barron's 1914 Storrs contest prize pen mated to imported 278-282 egg pedigree males; positively the highest egg record Leghorns he ever sent to America. Hatching eggs, \$7; chicks, \$15 per hundred. Northland Leghorn Yards, Grand Rapids, Mich. 4

S. C. W. LEGHORNS—Eggs for sale, \$5 per 100. Wm. Teuscher, Fisher, Ill. 4-6

BLANCHARD-WYCKOFF-BARRON White Leghorns. Heavy layers. Prize winners. 30 eggs, \$1.90; 100 eggs, \$5.50; 100 chicks, \$14. Catalog. Write. W. A. Albers, Lombard, Ill. 4

S. C. WHITE LEGHORNS—Large, vigorous, healthy and pure white, 230-egg bred. Eggs, 15, \$2; 100, \$7. Chicks, 15c; 6 weeks old, 60c. J. S. Woods, Wilmington, O. 4

SMITH STRAIN SINGLE Comb White Leghorns. Eggs, \$1.50 setting. Baby chicks, \$15 per 100. Best display at Huntington and Charleston, W. Va. Write for mating list. McKee Poultry Farm, Greenup, Ky. 4-5

S. C. WHITE LEGHORN hatching eggs from yearling hens, mated with Blanchard cockerels, \$2.50 per fifteen. Waynesboro Poultry Farm, Waynesboro, Va. 4

I'M STILL ABLE to hold on, because I got the layers. English White Leghorns. Every hen trapnested. Eggs, \$1.50 for 15; \$4.50 for 50; \$8 per hundred. All infertile eggs replaced. Baby chicks, 20c. N. B. Benson, 7136 S. Lincoln St., Chicago, Ill. 4

HOPKINS' SINGLE COMB White Leghorns—83 winners, including 10 grand championships at Iowa State, Davenport and Osgo Shows. 100 eggs, \$7 up; 100 chicks, \$15 up. Mating list. C. R. Hopkins, Route G2, Osage, Iowa. 4-5

BARRON-ENGLISH WHITE Leghorn hatching eggs and chicks, the big kind; up to 288 eggs (official) pedigree stock. Trapnested for large winter eggs. Circular. L. W. Ranker, Box A, Tiffin, Ohio. 4-6

BARRON'S STRAIN S. C. White Leghorn eggs, 15, \$1.25; 100, \$5.50. Wawbeek Poultry Farm, Kilbourn, Wis. 4

\$\$\$\$\$—HIGH CLASS S. C. White Leghorns. Wyckoff-Yesterlaid strains direct. Male is son of hen that laid 205 eggs in her pullet year. Eggs, \$2 per 15. W. Foss Litter, Dunkirk, Ind. 4

SINGLE COMB WHITE Leghorn eggs, \$1.50 per 15; bred to lay stock. E. Jacobs, Hessville, Ind. 4-5

HATCHING EGGS—Heavy laying White Leghorns; also Anconas. J. C. Stuchel, New Brighton, Pa. 4

WINEWOOD UTILITY STRAIN Single Comb White Leghorns are bred for winter layers. Baby chicks and eggs for hatching. Winewood Poultry Farm, Highland Park, Ill. 4-6

HATCHING EGGS—Genuine S. C. White Leghorns. Tom Barron strain. 5,875 eggs from 20 hens in 1917. \$7 per 100; \$1.50 per 15. Mrs. Lizzie Gray, Keithsburg, Ill. 4-5

S. C. W. LEGHORNS—I made \$1,200 profit from 400 hens. Eggs for hatching from this profitable strain, \$3 to \$10 per 15. Order from this ad or send for mating list. Breed-in-hens and cockerels for sale. Emory H. Bartlett, Box 19, Enfield, Mass. 4

TOM BARRON GUARANTEES that the English Leghorns I imported have pedigrees of 258-282. Circular free. Eggs \$2.00 for 15, \$3.50 for 30, \$5.00 for 50. Paul Frederickson, Holland, Mich. 4-5

SINGLE COMB WHITE LEGHORNS. (Young's). Pure white low-tailed cockerels, \$7.50. Fifteen eggs, \$2.50. Fifty for \$7.00. Fifty chicks, \$14.00. Egg record, 274. Meadow Farm, Coulterville, Ill. 4

BARRON LEGHORNS. Stock and eggs. Best blood obtainable. Prices moderate. Edwin Pattee, South Bend, Indiana. 4

SINGLE COMB WHITE LEGHORNS. Eggs from winter layers, \$1.00 per 15; \$5.00 per 100. Ludwig Schirvitz, Commerce, Mo. 4-5

SINGLE COMB WHITE Leghorns, glistening white, 236-egg bred. If you want delicious quick-maturing fryers, persistent layers and handsome breeders and be satisfied as an army of old customers are, order my hatchable eggs, livable chicks, thrifty two-months-old pullets, 80 cents. Write B. J. Woodmansee, Highland, Ohio, today for folder and buy superior stock. 4

AUSTRALIAN LEGHORNS — World's champions for 30 years. Strain: 315 hen record, 279 average pen record. Cocks, \$5; cockerels, \$4; settings, \$4. White Ranch, direct importer, South Haven, Mich. 4

SINGLE COMB WHITE Leghorns. Grand quality eggs from selected matings, \$2 per 15. Special Exhibition Mating, \$3. Valentine Petzold, Bridgman, Mich. 4-6

EGGS FROM BARRON STRAIN, free range, Hogan tested White Leghorns. The kind that has broken many world's records. 15 eggs \$1.25; 30 eggs \$2.10; 4 dozen and up 90c per doz. Prepaid to destination by parcel post. Geo. Wiltzie, Route 1, Escanaba, Mich. 4-6

EGGS FOR HATCHING—S. C. White Leghorns, exclusive free range Cornell stock, large eggs. Satisfaction guaranteed, \$5 per hundred. Large orders a specialty. H. D. Salton, Walton, N. Y. 4

BARON'S WHITE LEGHORNS — Special mated pens headed by males from heavy laying dams. All females trapnested from first day of laying. Mating list free, explaining all. F. W. James, Waukegan, Ill. 4-5

WYCKOFF SINGLE COMB White Leghorn Eggs from heavy layers, \$1.50 for 15; \$6.00 per 100; chicks, 15c each. C. D. Griffin, Roussell, Crystal Lake, Ill. 4-5

S. C. WHITE LEGHORNS—Young's strain, heavy layers, free range. Eggs, 15, \$1; 30, \$1.75; 50, \$2.75; 100, \$5; 200, \$10. Satisfaction. William Ax, Martinsville, Ill. 3-5

YOUNG AND FERRIS Strains S. C. White Leghorns. Eggs for hatching, \$2 for 15; \$11.00 for 100. Rawls' Poultry Farm, R. F. D. No. 3, Suffolk, Va. 2-4

BEFORE YOU PLACE your order for White Leghorn eggs or chicks, don't fail to get my prices; circular. Dr. Frudhomme, Thurmont, Md. 4

R. C. WHITE LEGHORNS

NO FROZEN COMBS if they're Rose Comb White Leghorns; 15 eggs, \$1.50; 30, \$2.50; 100, \$5.50. S. F. Heavlin, Seville, O. 2-4

MADISON SQUARE GARDEN winners; all firsts. 1918 mating list free. Wm. E. Anderson, Box C, Rush City, Minn. 3-5

EGGS, \$1.00 PER 15, \$6.00 per 100, from our bred-to-day and bred-to-win Rose Comb White Leghorns. George Rigler, Bentonsport, Iowa. 3-5

R. C. W. LEGHORNS—\$1 per 15. Mrs. Hy. Eckmans, Uniontown, Ky. 3-4

ROSE COMB WHITE Leghorns. Elephant strain. Good tails, color, layers, winners. 30 eggs, \$3.50; 100, \$6 and \$8. Guarantee, testimonials, circular. Rogers Ranch, Pleasanton, Iowa. 4-5

ROSE COMB WHITE LEGHORNS—Winners, layers; eggs reasonable; hatch guaranteed. Folder free. Harry Alken, Chaseburg, Wis. 3-5

S. C. BROWN LEGHORNS

\$3.50 PER 100 EGGS—Welday's 256-egg record Single Comb Brown Leghorns; world's leading breeder; catalog. Welday, Seville, Ohio. 2-4

HATCHING EGGS FROM my bred-to-day Single Comb Brown Leghorns, 15, \$1.75; 100, \$6. Satisfaction guaranteed. Also hens for sale. David Stoneburner, Quaker City, Ohio. 3-4

S. C. BROWN LEGHORNS—Farm range; 256-egg stock, the kind that win and lay. Eggs for hatching, 15, \$1.25; 50, \$3.50; 100, \$6.50. Bert Pennington, R. 6, Cisne, Ill. 2-4

BUY EGGS FROM pure-bred Single Comb Brown Leghorns that lay summer and winter; \$2, 15; \$10, 100. Maplelawn Poultry Yards, Brighton, Tenn. 3-5

SINGLE COMB BROWN LEGHORNS—Kulp and Russell's strain; eggs from farm range flock, \$6 per hundred. Mrs. Geo. W. Lohman, Osborn, Mo. 3-5

FIFTEEN EGGS FROM VIGOROUS, healthy free range, winter laying, light Brown Leghorns; \$2, parcel post prepaid. T. W. Hubbard, Knob Fork, W. Va. 3-5

EGGS FROM MY large 266 record line; large eggs. Catalog. W. W. Kulp, Box 70, Pottstown, Pa. 3-5

S. C. BROWN LEGHORN eggs, 15, \$1.50. Bessie Brinkerhoff, Springfield, Ill. 3-4

SINGLE COMB LIGHT Brown Leghorns—Hatching eggs, \$2.50 and \$5 for fifteen. John B. Sheets, Hagerstown, Md. 3-4

S. C. BROWN LEGHORNS—Both lines. Eggs from 10 choice matings. Send for catalog. Geo. L. Hornbrook, Box B, Decatur, Ill. 3-5

8,000 EGGS—DARK Single Comb Browns; rich color, strong striping; \$6, 100; \$2.50, 30. Murl Edwards, Rockbridge, Ill. 3-4

SINGLE COMB BROWN Leghorn eggs—15, \$1; 100, \$4. Mrs. John Morse, Avon, Ill. 3-5

S. C. BROWN Leghorn Eggs, 30, \$2.50. Parcel post, 100, \$5.00, express. J. K. Etheridge, Fairfield, Ill. 4

WERNER'S QUALITY S. C. Brown Leghorns. Both lines. Utility, eggs, \$2, \$3; Exhibition, \$5 per 15, guaranteed. Wm. B. Werner, Box K, Winamac, Ind. 4-6

S. C. BROWN Leghorns. J. T. Alexander, 1814 Darrow, Evanston, Ill. 4-6

R. C. BROWN LEGHORNS

HERSEY'S SILVER CUP Strain. Single Comb Brown Leghorns, Rose Comb Brown Leghorns. Line bred for 30 years. Winners of 25 cups, 10 medals in best shows. Eggs \$2 per 15; \$10 per 100. Hersey's Poultry Farms, Parkersburg, Iowa. 4-6

ROSE COMB BROWN LEGHORNS—Early hatched; cockerels and pullets. J. W. Cook, Bluffton, Ind. 1-4

\$3.50 PER 100 EGGS—Welday's 242-egg Rose Comb Brown Leghorns; greatest winter layers known; catalog. Welday, Seville, Ohio. 2-4

ROSE COMB BROWN Leghorns—Eggs from Standard-bred stock, 100, \$6. Pirtle Poultry Farm, Bloomfield, Iowa. 2-4

COCKERELS OF 254 record hen, \$7 and \$10; other cockerels, \$3 up. Eggs, \$2 to \$7 per 15. Catalog. Testimonial: "I raised the best layers I ever saw." W. W. Kulp, Box 70, Pottstown, Pa. 3-5

S. C. BUFF LEGHORNS

PRIDE'S S. C. BUFF Leghorns in 4 shows win more blue ribbons than all competitors combined; 2 sweepstakes at Marion, Jan. 1st to 5th; mating list Feb. 1st for asking. Dewitt Pride, Marion, Ill. 2-4

S. C. BUFF LEGHORN Eggs from best pen in South; few cockerels. W. W. Pitts, Lewisburg, Tenn. 2-5

SINGLE COMB BUFF Leghorns—First and third cockerel, third pullet, Madison Square, 1917; folder. Glenwood Poultry Yards, Rutherford, N. J. 2-4

S. C. BUFF LEGHORNS—Good, healthy, farm range stock; fine layers. Eggs, 15, \$1.50; 100, \$6. Well packed. Edmond Berkshire, Depauw, Ind. 3-5

SINGLE COMB BUFF Leghorns—Cockerels; eggs, \$6 per 100; circular free. Ell Rosenberger, Tiffin, Ohio, R. 9, Box 26. 2-5

BUSINESS BEAUTY BUFF Leghorns from large eggs from mature, typical, robust, prolific hens. Both combs. Out-bred, pedigreed. Catalog. Joseph Benedict, Chevy Chase, Md. 1-18-1f

SINGLE COMB BUFF Leghorn eggs and chicks. G. D. Bush, Elyria, Ohio. 2-4

S. C. BUFF LEGHORNS, bred 20 years for heavy egg production; winners in America's greatest shows; stock and eggs for sale; mating list free. L. E. Merihew, Marathon, N. Y. 2-4

S. C. BUFF LEGHORNS—They win, they lay eggs; prices reasonable. Mrs. H. Hoskins, Fairfield, Iowa. 3-5

S. C. BUFF LEGHORN and Barred Rock Eggs—Baby chicks in season. Prices right. M. M. Omick, Batavia, Ill. 3-5

S. C. BUFF LEGHORNS—Bred to lay and winners; eggs and chicks. Henry Michel, Sublette, Ill. 3-5

EGGS FROM CLEVELAND, Buffalo, Rochester blue ribbon winners, \$3 and \$5. Interpark Poultry Yards, Buffalo, N. Y. 3-5

SINGLE COMB BUFF Leghorns. 100 eggs, \$6; 300, \$15. Stock for sale, free circular. F. J. Rosenberger, Tiffin, Ohio. 4-6

LEITNER SINGLE COMB Buff Leghorns. Chicago, St. Louis, Rochester, Kansas City, Milwaukee and Canada winners. Catalog free. C. H. Leitner, Box 8, Elgin, Ill. 4

SINGLE COMB BUFF Leghorn eggs from 3 well mated pens. Hatch guaranteed. Write for prices. Jack Stumpe, Pinckneyville, Ill. 4-5

S. C. BUFF LEGHORNS from my Kansas City, St. Louis, Indianapolis, Pittsburgh, New York City winners. E. Cartwright, Box J, Richmond, Ind. 4

EGGS! EGGS! EGGS! S. C. Buff Leghorns. Heavy winter layers and prize winners. Ball Bros., Judson, Ind. 4

R. C. BUFF LEGHORNS

15 CHOICE ROSE Comb Buff Leghorn cockerels for sale; 7 at \$3; 5 at \$5; 3 at \$7; \$55 takes all; egg orders booked; setting, \$3. Fred Luebke, Watertown, Wis. 1-4

ROSE COMB BUFF Leghorns—Winners; great layers. Eggs, fowls. Write. Harry G. Crumbling, Mt. Holly Springs, Cumb. Co. Pa. 4-6

BUSINESS BEAUTY — See Single Comb class. 1-18-1f

ROSE COMB BUFF LEGHORNS—Stock and eggs. Catalog. Howard J. Fisk, Falconer, N. Y. 3-18-1yr

BLACK LEGHORNS

SUPERIOR QUALITY BLACK Leghorns—Eggs and chicks very reasonable; circular free. Van Driest Farms, Box R, Cedar Grove, Wis. 2-5

S. C. BLACK LEGHORNS—Winter layers, genuine egg machines. Pen 1, 15 eggs, \$2; 30, \$3.50; 50, \$5. Flock, 15, \$1; 50, \$3; 100, \$5. Ella Whitwood, Hudson, Ill. 2-5

BLACK LEGHORNS — Breeding stock. Eggs and chicks from selected prize winning matings. Circular and mating list. Scott Long, Carey, Ohio. 2-4

BLACK LEGHORNS — Cockerels, eggs from heavy laying winners; reasonable. Hatch guaranteed. Folder free. Harry Aiken, Chaseburg, Wis. 3-5

FOR SALE—BLACK Leghorn eggs. Good stock; fine winter egg layers. Also some pullets to sell. Joseph Kegel, Freeport, Ill. 3-5

IMPORTED S. C. BLACK Leghorns—220-egg strain; deep bodies, late molters, sure money-makers. Write Holland Bros., Mystic, Iowa. 3-5

EGGS FROM BLUE RIBBON Single Comb Black Leghorns \$1 per 15. Glen Echo Poultry Farm, 6500 Hamburger Ave., Wellston, Mo. 4

S. C. RED LEGHORNS

WONDERFUL NEW S. C. Red Leghorns; coming breed; catalog free. Welday (Originator-Introducer), Seville, Ohio. 2-4

S. C. RED LEGHORNS—Color and type excellent; no Sussex blood. Eggs, \$3 per 15. H. Christiansen, Elma Center, N. Y. 3-5

LEGHORNS—SEVERAL VARIETIES

50,000 LEGHORNS. Single Comb White and Brown. Stock Eggs. Day-old to four weeks chicks. Catalogue stamp. Falling Poultry Farm, Lafargeville, N. Y. 4-7

SINGLE AND ROSE COMB White Leghorns. Tom Barron's Strain, Imported Direct. Weighing 5 to 7 lbs. each. Extra large comb. Winners in all the national laying contests. Eggs, \$2 per 15; \$10 per 100. Hersey's Poultry Farms, Parkersburg, Ia. 4-6

BLACK MINORCAS

ROSE COMB BLACK Minorcas. Exhibition and utility stock, and eggs for hatching at all times. Send for our large catalogue. G. A. Clark, Seymour, Ind. 6-17-1yl

ROSE COMB BLACK MINORCAS—Trapped; Indianapolis winners; eggs, \$2 setting. O. M. Allen, Butlerville, Ind. 2-4

ROSE COMB BLACK MINORCAS exclusively; stock; eggs. Beller's Minorca Farm, Killbuck, Ohio. 2-4

GIANT S. C. BLACK MINORCAS—Good stock, heavy laying strain. Pen 1, 15 eggs, \$3; 30, \$5; 50, \$8. Flock, 15, \$1.50; 50, \$4; 100, \$7. Ella Whitwood, Hudson, Ill. 2-5

CHAMPIONSHIP ROSE COMB BLACK MINORCAS. Stock and eggs. Reliable Poultry Farm, Springfield, Minn. 2-4

BLACK MINORCA EGGS for hatching, from large, strong, vigorous stock; heavy layers. Henry Wallis, Delavan, Wis. 3-5

HATCHING EGGS—MY first prize pen, S. C. Black Minorcas; setting, \$1.50; 100, \$8. Stock guaranteed. F. P. Werner, Sleepy Eye, Minn. 3-5

WINNERS AT PANAMA and official 200-egg strain, National egg-laying contest, Missouri, up to 272. H. A. Kultz, Burlington, Wis. 2-18-1yr

DEYO'S MINORCA FARM—Single Comb Black Minorcas, bred 22 years exclusively; 15 eggs, \$1.50; \$8 per 100. B. C. Deyo, New Paltz, N. Y. 3-5

SINGLE COMB BLACK MINORCAS exclusively. Eggs for hatching from winners at Grand Palace, Pittsburgh and Chicago. Write for mating list. A. T. Renner, Coshocton, Ohio. 3-5

R. C. BLACK MINORCA EGGS. Catalog free. Consistent show winners. Great laying strain. Jay Beswick, Berea, Ohio. 3-5

SINGLE COMB BLACK MINORCAS. Hatchings eggs from phenomenal layers. Setting, \$3; Hundred, \$15. L. D. Cox, Lascelles St., Syracuse, N. Y. 4

S. C. BLACK MINORCA EGGS for hatching; excellent stock. Eggs, \$1.25 per 15; \$3.50 per 50; \$6.50 per 100. Address M. Pelton, Alexander, N. Y. 4-5

S. C. BLACK MINORCA EGGS. \$1.50, 15; \$2.50, 30. Arnold Krahmer, Fairmont, Minn. 4

S. C. BLACK MINORCAS. Eggs and stock for sale. Eggs, \$2, \$3 and \$5 per setting; \$12 per 100. Send for mating list. Onondaga Minorca Yards, J. G. Kren, Prop., Syracuse, N. Y. 4-6

HUTSON'S SINGLE-COMB BLACK MINORCAS. Eggs, \$2 and \$5 per 15. Albert Hutson, Oneonta, N. Y. 4-5

ROSE COMB BLACK MINORCAS exclusively. Northrup strain. Eggs, \$2 per 15; \$10 per 100. J. R. W. Deyo, New Paltz, N. Y. 4

ROSE COMB BLACK MINORCAS. Eggs for hatching from my choice matings. Good layers of large white eggs, and exhibition qualities. War time prices. Philip J. Minch, Route 4, Painesville, Ohio. 4-6

EXTRA LARGE SINGLE COMB BLACK MINORCAS. Eggs for hatching, \$3.00 per 15. Benj. F. Shute, 30 Moore St., West Somerville, Mass. 4

SINGLE COMB BLACK MINORCA EGGS for hatching, \$2.00 setting. W. W. Gardner, Scottsville, Ky. 4-6

SINGLE COMB BLACK MINORCA EGGS from three grand pens. Write Edwin F. Smith, Stockton, Ohio, for mating list. Satisfaction guaranteed. 4

BUFF MINORCAS

BUFF MINORCAS—See display ad page 426. Walhalla Poultry Farm. 3-18-1f

BUFF MINORCAS, SPECIALS, pens, \$15 and \$20; eggs, \$2, \$3 and \$5 per setting; chicks, 25c and up; Coliseum winners. William Williams, 1102-A West 52, Los Angeles, Calif. 2-4

EGGS FOR HATCHING—Buff Minorcas, \$10 and \$5 per 15. Utility, \$2 and \$3.50 per 15. Mrs. S. M. Applegate, 1502 S. Presa, San Antonio, Tex. 3-5

SINGLE COMB BUFF MINORCAS. Good winter layers of extra large white eggs. 15 eggs for \$2.00. Fred P. Dietz, Mt. Vernon, Ind. 3-5

BUFF MINORCAS from Lindgren Brothers, originators. Satisfaction guaranteed. Ida J. Rambo, De Long, Ill. 4

WHITE MINORCAS

ROSE COMB WHITE MINORCAS; winners of blue ribbons at the Chicago Coliseum, 1917; eggs for hatching. W. E. Haase, Omro, Wis. 2-4

SINGLE COMB WHITE MINORCA EGGS—Special quality mating, including prize winners, \$3 per 15. Farm flock, \$1.50 per 15, \$7 per 100. Fred C. Hacke, Lone Tree, Iowa. 3-5

ROSE COMB WHITE MINORCAS—Size, shape and color; mating list. F. W. Schmidt, Princeton, Wis. 2-4

RICKLAND POULTRY YARD, Waynesville, North Carolina, single comb White Minorcas exclusively; eggs, \$2; cockerels, 1-4

SINGLE COMB WHITE MINORCAS for quality and beauty; splendid layers, large white eggs. Eggs, \$1.75 per 15, \$4.50 per 50. E. H. Wisen, Homer, Neb. 3-5

SINGLE COMB WHITE MINORCAS exclusively. My stock has free range of farm. Eggs for hatching, \$2.50 per 15; \$4 per 30; \$10 per 100. A. L. Buzzard, Metamora, Ill. 3-5

SINGLE COMB WHITE MINORCAS—18 years a breeder. Eggs for hatching; also cockerels. State what you want. Harry Leibold, Delaware, Ohio. 3-5

WELLS' STRAIN SINGLE COMB WHITE MINORCAS—Eggs from our Madison Square, Coliseum and State Show winners, ready to ship. Fertility guaranteed. Wells & Wells, Box 1250, Muskogee, Okla. 3-5

MEISELBACH'S SINGLE AND ROSE COMB WHITE MINORCAS; won at the great Coliseum show, 1917, 5 first, one third prize. Choice stock and eggs. Harry Meiselbach, Melrose Park, Ill. 4-5

BLUE ORPINGTONS

BLUE ORPINGTONS—Dubuque, Ia., winners. Robert S. Lampert, Lena, Ill. 2-4

BLACK ORPINGTONS

BLACK ORPINGTONS—The big winter layers; 15 eggs, \$1.50. Juanita Whitwood, Hudson, Ill. 3-5

BUFF ORPINGTONS

BUFF ORPINGTONS—Seventeen years a breeder. Best Exhibition Egg Producing Strain. Eggs or Baby Chicks. Circular free. Will Schadt, Goshen, Ind. 1-4

SUPERIOR QUALITY BUFF ORPINGTONS, win at the largest shows. I am conducting a \$5 cockerel sale that will interest you; also eggs for hatching. Write. Howard Schultz, Michigan City, Ind. 2-4

EGGS FROM MY STRAIN of Fashion Plate Buff Orpingtons of fine exhibition color, correct type, winter laying habits, and large size at \$8 per hundred or \$3 per 15. E. B. Douglass, Lexington, Ill. 3-4

QUALITY SINGLE COMB BUFF ORPINGTONS, the kind that please; grown stock; guaranteed eggs, \$2, \$3, \$5 per fifteen. William Schneider, Rutland Road, Freeport, Long Island. 3-5

S. C. BUFF ORPINGTONS—Consistent winners at Quincy, Ill., and Illinois State Shows, 1914-1918. Eggs from three grand pens, \$3, \$5 and \$7.50 per 15. Satisfaction guaranteed. Mating list free. A. F. Burger, Keokuk, Iowa. 3-5

SINGLE COMB BUFF ORPINGTONS bred from imported stock. Eggs, \$2 to \$5 per setting. Get my 1918 mating list. L. B. Crew, Creighton, Neb. 3-5

BUFF ORPINGTONS—The hens that lay and pay, bred from prize winning stock. Large eggs; heavy winter layers; excellent table birds. Settings, first pen, \$2.50; second pen, \$1.50 per 15. Hundred lots special price. Order early. Henry Robinson, Wyandot, Ill. 3-5

SINGLE COMB BUFF ORPINGTONS—Owen strain. Large, well shaped, good laying strain. Eggs, 15, \$1; 30, \$2.50; 50, \$3. Charlie McGrath, Scioto Mills, Ill. 4-6

S. C. BUFF ORPINGTONS. Eggs: 15, \$1.50; 50, \$3.50; 100, \$6.00. Hens, \$2.50. Frank Myers, Oakwood, Ohio. 4-5

SINGLE COMB BUFF ORPINGTON COCKERELS. Martz strain, \$5. Eggs, \$2.50 per setting. John W. Fagan, Frederick, Ill. 4-6

S. C. BUFF ORPINGTON EGGS from hens that lay, weigh and pay. I paid \$20 for 13 eggs. My price from No. 1 pen, 15 eggs, \$5. No. 2 pen, 15 eggs, \$2. No. 3 pen, 15 eggs, \$1. All orders filled promptly after March 15th. Mrs. Lizzie Roebuck, Ft. Wayne, Ind., R. F. D. 14 3-5

BUFF ORPINGTONS from New York and Chicago prize winners. Eggs, \$2, \$3, \$5 per 15. Mating list. C. S. Wells, Delaware, Ohio. 4

BUFF ORPINGTON EGGS from choice stock. \$1.50 per 15, or \$7 per 100. H. F. Streepy, Fredonia, N. D. 4

BUFF ORPINGTONS—Hatching eggs from winners of best display at Utica, Jan., 1918. Send for mating list. Lynn A. Wollaber, Mohawk, N. Y. 4-5

S. C. BUFF ORPINGTONS. Pen No. 1, \$3 per 15. Pen No. 2, \$1.50. Mrs. R. E. Nylie, R. 2, Peebles, Ohio. 4

BUFF ORPINGTONS—Cook strain, eggs, \$2 and \$3 per 15; chicks, \$22 per 100. S. C. Buff Orpington Farms, South Milford, Ind. 4

WHITE ORPINGTONS

SINGLE COMB WHITE ORPINGTONS, White Leghorns and Rhode Island Reds; stock and eggs of quality. A. G. Davison, Box APJ, Grand River, Iowa. 2-5

SINGLE COMB WHITE ORPINGTONS—Winners at Quincy, Ill., show, 1917; eggs for hatching; send for mating list. Hermann J. Wulfmeyer, Quincy, Ill. 2-4

WHITE ORPINGTON EGGS—Write for catalog. Elm Grove Poultry Farm, Glen Ellyn, Ill. 2-4

WHITE ORPINGTONS—WINNERS at Tri-Cities and Iowa State shows; choice pullets and other stock for sale; hatching eggs after Feb. 15; satisfaction guaranteed. L. H. DeFrates, Fancier and Breeder, Route 1, Davenport, Iowa. 2-5

ALDRICH'S ORPINGTONS—Eggs, \$2, \$3, \$5. Mrs. Amos, Kendallville, Ind. 2-4

CRYSTAL WHITE ORPINGTONS—Bred for laying and size. Satisfactory hatch guaranteed. Safe delivery of chicks guaranteed. Eggs, \$3 per setting. Chicks, 20 cents each. Book your order early and secure sturdy chicks from winners. H. E. Hussey, Cedarhurst Farm, Princeton, Ill., R. 8. 2-4

QUALITY WHITE ORPINGTONS—Aldrich and S. B. Strains. Eggs, females and choice cockerels for sale. Laying or exhibition strains. Mating list. S. B. Brennan, 3140 Irving Ave., Berwyn, Ill. 2-4

CHICAGO COLISEUM WINNERS—Champion pen, Proviso, \$45. Winning cocks, \$8 up. 20 hens and 5 cocks, \$3 and \$5. Settings, \$3 and \$5. Alfred Engling, Elmhurst, Ill. 2-4

WHITE ORPINGTON EGGS, \$2. Have one pen of all blue ribbon winners. Free list. N. Roy Bowman, Albany, Wis. 2-4

ALDRICH'S STRAIN WHITE ORPINGTON EGGS, \$1.50, 15; \$7, 100. Circular. Miss Deillah M. Moon, Route 2, Martinsville, Ohio. 3-5

SINGLE COMB WHITE ORPINGTONS—Great, large, low down, massive type, extremely white, grand winter layers, grow like weeds. Eggs, 15, \$1.50; 50, \$4.00; 100, \$7.00. Lee W. Morgan, Independence, Ind. 3-5

EGGS! EGGS! EGGS!—Strongly fertile, big, brown and fresh from the nest; 200 to 261-egg bred White Orpingtons. Fill your incubator, set your hens. Selected eggs, 15 cents each, \$12.50 hundred. Prompt shipment. T. P. Dougherty, Route A-102, Tyrone, Pa. 3

QUALITY WHITE ORPINGTONS—High egg record strain. Eggs, \$3. Geo. Layman, Greenville, Ill. 3-5

QUALITY WHITE ORPINGTONS—Bred to lay with quality to win at Northwest largest shows. Guaranteed eggs, \$2 to \$5 per fifteen. Write for mating list and winnings. W. R. Williams, Box L-646, Lake Crystal, Minn. 3-5

EGGS—PEN headed by Champion Male, White Orpington Rochester Show. Dr. Chas. Switzer, Norwich, N. Y. 4

ALDRICH AND BYERS STRAINS S. C. WHITE ORPINGTONS. Eggs for hatching, \$2, \$5 and \$7 per setting. Write for mating list. A few good cockerels left. R. W. Miller, Morton, Ill. 3-4

SINGLE COMB WHITE ORPINGTON EGGS from my famous winter layers, \$2.50 per 15. Joseph Stokes, Route 6, Canton, Ill. 3-4

PARKER'S PEDIGREED WHITE ORPINGTONS. Trapped 200-egg hens; 310-egg male. Catalog. J. S. Parker, Route 4-J, Plain City, Ohio. 3-4

HATCHING EGGS FROM Aldrich Strain White Orpingtons, which won all first, special cockerel and silver medal at Official State Show, 1917, \$3 and \$5 per 15. Mrs. Raymond Rouelle, Wallingford, Conn. 4-6

PRIZE WINNING SINGLE Comb White Orpingtons; great layers; eggs, \$1.50 to \$5; chicks, 25 for \$5; cockerels for sale. W. A. Burris, Bluffton, Ind. 4-6

WHITE ORPINGTONS, Aldrich strain; Indianapolis Show Winners, 15 eggs, \$2.50. Fred Bilyen, Campbellsburg, Ind. 4

WHITE ORPINGTON EGGS from my show winners, \$1.50 and \$5.00 per 15. Will Radschlag, Sioux City, Iowa. 4

WHITE ORPINGTONS—As good as the best, better than most. Illustrated catalog free. Sunnyfields Farm, Wallingford, Conn. 4-6

SINGLE COMB WHITE Orpington Eggs from vigorous, healthy stock. Splendid type and color. \$2, 15; \$7, 100. Mrs. E. C. Webster, Charles City, Iowa. 4-6

MASSIVE SNOW WHITE Orpingtons that lay eggs in the winter time. Mating list free. A. R. Smith, Alma, Mich. 4

OWEN FARMS White Orpingtons; heavy laying strain Buttercup. Hatching eggs. Grace Roe, Sherburne, N. Y. 4

KELLERSTRASS STRAIN SINGLE Comb White Orpingtons. Large boned, well shaped birds. \$3 per 15 eggs. Charlie McGrath, Scioto Mills, Ill. 4-6

ALDRICH-OWEN FARMS White Orpingtons. Prize winners. For Sale—Hens, Pullets, Eggs. Choice matings. \$2, 15; \$7.50, 100. Closely culled range flock, \$6, 100. Sunnyside Flock, Sandwich, Ill. 2-4

CLOSING OUT SALE. 8 Fine White Orpington hens and rooster, Aldrich strain, \$25. Sunflower Poultry Yds., Grafton, Ill. 4

WHITE ORPINGTONS—Aldrich strain; 15 eggs, \$3; 30 eggs, \$4. G. W. Wieneke, Route 3, Fieldon, Ill. 3-5

S. C. WHITE ORPINGTON Baby Chicks, \$20 per 100. Eggs, \$10 per 100. Good healthy stock. Mrs. Mary Sawtell, Colo, Iowa. 4-5

ORPINGTONS—SEVERAL VARIETIES

SINGLE COMB ORPINGTON Eggs—Blacks of real good quality. Whites of genuine Aldrich Strain. Prices, \$2, \$2.50 and \$3 for fifteen. No stock. Cauble's Poultry Farm, Phenix, Mo. 2-4

LONG'S ORPINGTONS—Buff, Black, White. None better. Winners everywhere. Specialty thirteen years. Eggs, \$10 per 100 and upward. Stock for sale; reasonable. E. M. Long, Box A, Osceola, Ind. 2-4

BLUE AND BUFF Orpingtons—Stock and eggs for sale. Prices reasonable. Jess Jessen, Strawberry Point, Iowa. 3-5

ORPINGTONS—S. C. BUFF and White; first white hen. Wisconsin State Fair, 1917. Owen Farms Buff eggs, 15, \$2; 30, \$3.50. Bert Shaw, Elizabeth, Ill. 4-5

MAMMOTH STRAIN WHITE, Black and Buff Orpingtons. Eggs, \$2 per 15; \$10 per 100, from exhibition stock. Hersey's Poultry Farms, Parkersburg, Iowa. 4-6

POLISH.

WHITE CRESTED BLACK Polish and **White Crested Plain White Polish**. Write for circular. Rev. Charles Pfeiffer, Melrose, Minn., Route 3. 3-5

WHITE CRESTED BLACK, Silver and Buff Polish. Prize winners for 20 years. Stock and eggs reasonable. Kakuska, Berwyn, Ill. 4-6

TWO AND THREE DOLLARS, fifteen; seven varieties Polish eggs, postpaid. L. Leavitt, Smithfield, Ill. 4-6

RED CAPS.

RED CAPS—From prize winners. Sam Jones, Church Creek, Maryland. 4

ENGLISH RED CAPS exclusively—Sixteenth year. Fifteen eggs for hatching, \$3.00; thirty eggs, \$5.00. Larger orders at lower rates. Stock for sale. Satisfaction guaranteed. H. G. Weldenfeller, Mineral Point, Wis. 3-5

ENGLISH REDCAPS—A few eggs for sale from personally Imported Foundation Stock. All stock full size, fine color, with very large, well-worked combs. E. A. Frank, Augusta, Ga. 4

RHODE ISLAND REDS

ROSE COMB RHODE Island Reds—Poor-man's 200-egg laying strain; farm raised, vigorous stock; eggs, \$2 per 15, \$8 per 100; chicks, \$20 per 100. Mrs. J. A. Brown, Route 6, Creston, Iowa. 2-4

\$4 PER 100 EGGS—Welday's 220-egg record, real red S. C. Reds; none better; catalog. Welday, Seville, Ohio. 2-4

REDS, BOTH COMBS, eggs, chicks, breeders; catalog free. Riverdale Poultry Farm, Riverdale, N. J. 2-4

BUY HATCHING EGGS from tried-out pens bred for exhibition, laying, breeding; Winnebago Reds led their variety in 1917 year's contest, Leavenworth, Kansas. Write us for prices. Winnebago Poultry Yards, Omro, Wis. 2-4

HIGH-CLASS SINGLE COMB Red eggs. Chas. Sherman, Freeport, Ill. 2-5

SINGLE COMB REDS, stock and eggs. Frank J. Martin, Mineral Point, Wis. 2-4

S. C. REDS—Good stock and the best of winter layers. 15 eggs, \$2; 30, \$3.50; 50, \$5; 100, \$8. Ella Whitwood, Hudson, Ill. 2-5

S. C. R. I. REDS—Good breeding males, Scranton Strain line-bred for last ten years, win wherever shown. Eggs in season. Setting, \$15. Satisfaction guaranteed. H. Vandepels, Zeeland, Mich. 2-4

SINGLE COMB REDS—Hatching eggs from large uniformly dark red stock, bred for winter laying. Vibert-Owens cross. \$2 per 15. Satisfaction guaranteed. O. G. L. Lewis, Paoli, Penn. 2-4

S. C. REDS—Quality stock only, of size, color and type; winners and layers. Eggs, \$3. R. N. King, Kendallville, Ind. 3

R. I. RED EGGS, \$3 to \$5 per sitting. special prices on hundred lots. John G. Richardson, Elliott, Ill. 3-5

S. C. REDS—Wymore and Hickman winners. Stanley Kaura, Wymore, Neb. 3-5

LONG'S SINGLE COMB REDS—Winners at Sioux City, Des Moines, Omaha; foundation stock direct from Scranton; ten pens mated; egg prices reasonable. Write for mating list. B. S. Long, Little Sioux, Iowa. 3-5

EGGS FROM PRIZE WINNING Rose Comb Reds; 3 grand matings; true Reds; \$2, \$3 and \$5 per sitting. Geo. J. Seifert, Mt. Vernon, Ind., Route 7. 3-5

SINGLE COMB REDS—Hatching eggs, \$2 for fifteen. John B. Sheets, Hagerstown, Md. 3-4

S. C. REDS of quality. Large-boned range raised winners and layers. Eggs, \$2 per 15. Robert Bolton, Virden, Ill. 3-5

SINGLE COMB REDS—Pure-bred, dark red; setting of 15, \$1.50. Indian Runner duck eggs; setting, \$1.50. Mrs. Edgar Beach, Stillman Valley, Ill. 3-5

SINGLE COMB REDS—Bean strain; large bone, dark red. Eggs, \$2 for 15. Henry R. Snapp, Greeneville, Tenn. 3-5

ROSE COMB Red eggs, Longfield strain; recent winnings, first cock Greater Chicago. Free circular. Thomas J. Britton, Kentland, Ind. 3-4

SINGLE COMB R. I. REDS—Farm reared, with that rich red color, from best blood lines. Eggs, \$3 per 15. Order from this ad. Curt Dorendorp, 2047 Dayton St., Chicago, Ill. 3-5

ROSE AND SINGLE COMB brilliant dark Reds that are fine layers. Geo. A. Kersten, Washburn Park, Minneapolis, Minn. 3-4

SINGLE COMB REDS—Eggs from my best mating, 15, \$2; 30, \$3.50; 50, \$5; 100, \$9. Fred G. Keller, Miltersport, Ohio. 3-5

TOMPKINS' MAMMOTH S. C. Reds—Healthy, rich, brilliant red; excellent layers. Eggs that hatch, 100, \$8; 50, \$4.50; 30, \$3; 15, \$2. Strong, vigorous chicks, 100, \$16; less than 50, 18 cents each. Albert Bonsall, R. 4, Salem, Ohio. 3-5

240-EGG STRAIN Rhode Island Reds—Both combs. 21 years a breeder. Stock and eggs for sale. Stamp for reply. E. S. Piper, Bay View Farm, North Haven, Maine. 3-5

S. C. REDS—Won every first at three shows. Mating list free. S. R. Engstrand, Steger, Ill. 3-5

SINGLE COMB REDS—Won championship cup, Chicago, 1916. Special. 15 eggs, \$2.50. George Lemlow, Elgin, Ill. 4

ROSE COMB REDS—Eggs at \$1.25, \$1.50 and \$2.50 for 15. Satisfaction guaranteed. Thomas N. Hadden, Pringhar, Iowa. 4-5

ROSE COMB REDS—Fine quality stock. Excellent winter layers. Eggs, \$1.50, \$3 and \$3.50 per 15. \$7 per 100. Jean Weerts, Foolsland, Ill. 4-5

R. C. RED EGGS—Exhibition and heavy laying strain. Eggs, \$3 per 15; \$5 per 30. August H. Pfaffum, Elgin, Ill. 4

ROSE COMB REDS—Eggs from three grand pens. Write for Mating List. J. M. Hoyt, Marshalltown, Iowa. 4-6

ROSE COMB REDS—Kaufmann and Windheim American Beauty strain; large brown eggs from healthy, vigorous hens having farm range. \$2 per 15; \$10 per 100. Edward Glendening, Delhi, N. Y. 4-5

EGGS—ROSE AND SINGLE Comb Reds. Each on separate range. Infertile eggs replaced. Carefully packed, six dollars a hundred. Eggs in season. Mary Hamilton, Brocton, Ill. 4

"MAHOGANY" STRAIN SINGLE Comb Reds—Carefully bred to produce handsome strong birds. None better in the country. Eggs, \$2, \$2.50 and \$3 per 15. W. E. Howard, Ottawa, Ill. 3-5

ROSE COMB RED EGGS from carefully mated pens, bred for laying for 15 years. Winners wherever shown. Busy Bee Hennery, Bridgman, Mich. 4-6

ROSE AND S. C. REDS—Size and color that will please the eye. Proven winners and breeders in any competition. Eggs, \$2 per 15; \$10 per 100. Hersey's Poultry Farms, Parkersburg, Iowa. 4-6

ROSE COMB REDS—Eggs from trap-nested heavy laying females. Special mated pens, mated to produce show quality as well as utility. Headed by males from high yield dams. Mating list free. Few good cockerels, \$3, \$4 and \$5 each. F. W. James, Waukegan, Ill. 4-5

INCREASE YOUR EGG Production. Buy eggs and day-old chickens from stock backed with a known Trap-nested Record. No guess work about the laying qualities of our Trap-nested Single Comb Reds. Prices reasonable. Free Mating List. Deer Brook Poultry Farm, Short Falls, N. H. 4-5

RHODE ISLAND WHITES

ORDER EGGS AND CHICKS from hens that lay thru zero weather; Cook's Paramount strain R. I. Whites are bred that way; both combs. Mrs. Ernest Cook, Route 8, Cecilia, Ky. 2-4

EXCELSIOR RHODE ISLAND Whites—The oldest and best line bred strain in the world. Great winter layers and exhibition birds; literature free. Mrs. C. M. Vertrees, Box C, Cecilia, Ky. 2-4

HEADQUARTERS FOR ROSE Comb Rhode Island Whites. I am the oldest Breeder of this breed. Eggs and stock for sale from this wonderful laying strain. Catalog free. C. A. Foster, Colonial Poultry Yards, Akron, Ohio. 1-6

SINGLE COMB RHODE Island Whites—Eggs from pen of famous layers. Mid-winter records 23 to 28 eggs in 30 days. \$2 per 15. O. G. L. Lewis, Paoli, Penn. 2-4

EGGS AND BABY CHICKS from trap-nested Rhode Island Whites, winners at Chicago, Madison Square Garden, Panama Exposition, Pittsburgh, Buffalo, Palace shows. G. S. Boller, Little Valley, N. Y. 3-4

THE GREAT RHODE ISLAND White farm, Rose and Single Comb eggs, \$1.50 per 15 and up. Also chicks. Catalog free. Henry Eichelmann, R. 4, Waterloo, Ill. 3-5

ROSE COMB RHODE ISLAND White cockerels, hens and pullets, \$2, \$3, \$5 each, from prize winning strains. Eggs, 15, \$2; 50, \$5; 100, \$9. Col. Warren Russell, Winfield, Kan. 3-6

VERTRESS ROSE COMB Rhode Island Whites—Eggs, \$2, 15; \$5, 50; \$8, 100. Oak Grove Farm, Route 34, Box A, Peoria, Ill. 3-5

PATRICK'S ROSE COMB Rhode Island Whites won another great victory at the recent Club Show at St. Louis, Mo. Write for circular. J. T. Patrick, R. 4, N. Vernon, Ind. 4-5

SINGLE COMB RHODE Island Whites—Heavy winter layers; standard weight; snow white plumage; \$2 for 15 eggs. Mrs. Fred Baynes, Salem, Ind. 4

"WHITE QUEEN" HEAVY laying strain Rhode Island Whites, rose and single combs. 15 eggs, \$2; 30, \$3.50; 50, \$4.90; 100, \$8.50. Cockerels, \$3, \$5 and up. Rose Comb hens, \$2. Fred Havig, Route 2AA, Osage, Ia. 4

BARRED PLYMOUTH ROCKS.

BARRED ROCKS EXCLUSIVELY—Heavy laying strain, Park's direct; 15 eggs, \$2; 50 eggs, \$5, and 100 eggs, \$9. Mrs. E. Glabe, Chatsworth, Ill. 2-4

BARRED ROCK EGGS for hatching. Bradley and Parks Strains. Harry Hough, Hartford, Mich. 2-4

PARK'S STRAIN BRED-TO-LAY Barred Rocks exclusively; direct from Park's best pedigreed pens; free range raised; large, vigorous, heavy-laying birds. Eggs, 15, \$2; 30, \$3.50; 50, \$5; 100, \$9; satisfaction guaranteed. M. W. Weaver, Dillsburg, Pa. 2-4

BARRED ROCKS, 200-egg strain, hatching eggs, \$1.50 for fifteen; \$7 per 100; cockerels, \$5 each. Winterlaid Egg Farm, Dahlgren, Ill. 2-4

\$4 PER 100 EGGS—Welday's Laymore Barred Rocks; catalog. Welday, Seville, Ohio. 2-4

RINGLET BARRED ROCK Chicks—14 cents. Paul Bickel, 32 Tompkins St., Columbus, Ohio. 2-4

FAIRFIELD'S BIRDS WON Storrs International egg-laying contest with 2,119 eggs; won state cup, 1917 and 1918. 1,000 trap-nested breeders mated to pedigreed males line bred for eggs and beauty. Hatching eggs and chicks; illustrated circular free. Fairfields Farms, Short Falls, N. H. 2-4

EGGS FROM E. B. THOMPSON'S Imperial Barred Rock strain, 15 for \$2; 100 for \$10; satisfaction guaranteed; good cockerels reasonable. W. H. Settle, Gridley, Ill. 2-5

E. B. THOMPSON'S "RINGLETS" direct; extra choice cockerels, females, eggs; big, vigorous stock, bred from winners; best New York winning blood from proven breeders. Have spared neither pains nor money. William Huckle, Waverly, N. Y. 2-4

PARK'S BRED-TO-LAY Barred Rocks—Get eggs from winter layers; fertility guaranteed; 15, \$2; 30, \$3.50. A. Hoffmeyer, Route G, Box 28, Indianapolis, Ind. 2-4

WYLLMACROFT BARRED Rocks are money makers. Reared on free range for size and heavy egg production. Do you want producers? Book orders for eggs now. Mrs. Will Bugg, Assumption, Ill. 2-4

EGGS FOR HATCHING—Parks' bred-to-lay strain. Pine stock, 15, \$2; 30, \$3.50; 50, \$5.50; 100, \$10. A. Amidon, 6041 South Winchester Ave., Chicago, Ill. 2-4

RINGLET ROCK EGGS, \$1.25 to \$5 per 15; 100, \$6; both matings and flock farm raised. V. I. Hostetler, Route 5, Napanee, Ind. 3-5

BARRED ROCK EGGS for hatching, \$1.50 per 15, \$10 per hundred. Mrs. Henry Glafka, Walnut, Ill. 3-5

BARRED ROCKS — LARGE, vigorous, clearly barred, yellow legs and beak from Parks' heavy laying strain; eggs, 15, \$1.50; 50, \$4; 100, \$7. B. F. Morgan, Independence, Ind. 3-5

BRADLEY-PARKS' STRAIN — Beauty, size, egg machines; eggs, \$2 per 15. Norval Lewis, Carrsville, Ky. 3-4

BAYER'S PREMIER BARRED Rocks—Eggs, \$5 per 15, \$25 per 100. The winning male line only. Chas. Bayer, Urbana, Ohio. 3-5

BARRED ROCK EGGS for hatching from birds that took every first prize in exhibition class, silver cup, best display, and specials at Lafayette, Ind., January, 1918. Martia Lind, Crawfordville, Ind. 3-5

E. B. THOMPSON'S STRAIN Barred Rock eggs, \$1.50, 15; \$7, 100. Circular. Miss Delilah M. Moon, Rt. 2, Martinsville, O. 3-5

BARRED ROCKS—Special mating; eggs, \$3 per 15; exhibition, \$5 per 15; utility, \$1.50 per 15, \$8 per 100. Perl Baughn, "Lone Oak" Farm, Washington C. H., Ohio. 3-5

QUALITY BARRED ROCK eggs, Thompson strain; 15 eggs, \$2; forty-five, \$5; fertility guaranteed. Hazel Eaton, Ottawa, Ill., Route 31. 3-4

BARRED ROCK EGGS that will produce winners. Write T. A. Somdal, 1430 Carolina Ave., Springfield, Ill. 3-5

EGGS—270-EGG LINE—None better. Catalog. W. W. Kulp, Box 70, Pottstown, Pa. 3-5

EGGS FROM HEAVY laying utility stock, \$5 per 100; prompt shipments. Tyrone Poultry Farm, Fenton, Mich. 3-5

BOWERS' PREMIUM BARRED ROCKS—Winners at Chicago Coliseum show, 1914-1915-1917; Milwaukee, 1916; Indianapolis, 1917. Stock sold on approval; eggs for hatching; cockerel mating only. Fred Bowers, Woodstock, Ill. 3-4

EGGS FREE — Hall's famous Barred Plymouth Rocks. In order to induce more poultry, I am going to reduce the price of eggs from my famous winning line of cockerel-bred Barred Rocks, including World's Fair and champion Chicago winners, to \$5 per 15 eggs. With every order of \$5 I will give free five eggs from the daughters of "Liberty," egg record 294 eggs in one year. Several of those yards are headed by 12-lb. cocks, sons of champion female, Chicago Coliseum. I have formerly sold at \$10 to \$20 per 15. Everything goes this spring after March 1st, \$5 per 15, with five free eggs, giving you 20 eggs in all. 19 years line-breeding on my farm for size, eggs, production and exhibition quality has produced a line unexcelled by any breeder in America. We are prepared to take care of thousands of orders promptly. You may order any amount you wish; price is the same; with every \$5 sent for eggs I will send free five eggs. Catalog free. Luther J. Hall, Box 7, Kenney, Ill. 3-5

RINGLET BARRED ROCKS—Eggs, 15, \$1.25; 30, \$2.50; 50, \$3; 100, \$5. E. P. Churchill, Allerton, Iowa. 3-5

BARRED ROCKS — E. B. Thompson's "Ringlets" direct; eggs from my best matings, 15, \$2; 30, \$3.50; 50, \$5; 100, \$9. Fred G. Keller, Millersport, Ohio. 3-5

BARRED ROCKS—Vigorous, heavy laying breeders on range. Eggs, 15, \$1.50. Mont Lockart, Vandalia, Ill. 3-5

WRIGHT'S LAYING STRAIN Barred Rocks, trap-nested, vigorous, carefully selected; eggs for hatching, \$2 for 15. Wright Poultry Yard, Peebles, Ohio. 3-4

BARRED ROCK HATCHING eggs from farm range flock; \$1.25, 15; \$6, 100; thousand rates. Also baby chicks. W. H. Hassebrock, St. Peter, Ill. 3-5

BARRED ROCKS—BRADLEY strain; free range, \$5 per 100, not prepaid; 15 eggs, \$1.25, prepaid. Mrs. Ella Hiel, Avon, Ill. 3-5

BARRED ROCKS—RINGLET strain, 1918 record at Milwaukee Auditorium show, 1st and 4th cockerel; Oconomowoc, 1st and 2d, only two birds entered. Exhibition and breeding cockerels for sale. Eggs, \$3 per 15 or \$5 per 30. All stock guaranteed; if not satisfactory, return at our expense. Ed Martin, Oconomowoc, Wis. 3-5

RINGLET BARRED ROCK eggs from special exhibition matings; birds of great size and quality. Pens 1 and 2, 15, \$5; 3 and 4, 15, \$3; 30, \$5. Mating list. Mrs. J. M. Kemp, Kenney, Ill. 3-5

BARRED ROCK EGGS from stock with size, shape and color. Good laying strain; 15, \$1.50; 50, \$4.00. E. B. Murphy, Box 4, Carmel, Ind. 3-5

PROLIFIC BARRED ROCKS — Large brown eggs from valuable matings; \$1.50 per 15; \$6 per 100. C. A. Newcomb, Celina, Ohio. 3-5

B. P. ROCK EGGS, \$1.50 per 15. Matt Koch, Golconda, Ill. 3-4

RINGLET BARRED ROCK eggs cheap. Dixie Poultry Yards, Beaumont, Texas. 3-4

EGGS—\$6 PER 100, \$1.25 per setting. Mammoth Barred Rock chickens, have had them weigh to 16 lbs. Howard Irvin, Folo, Ill. 4-7

IMPERIAL RINGLET Barred Rocks—Large heavy boned stock. Eggs, 15, \$2; 30, \$4. Charlie McGrath, Scioto Mills, Ill. 4-6

LARGE, BEAUTIFUL, VIGOROUS Bred-To-Lay Barred Rocks, Park's strain exclusively (from best pens direct). Heavy winter layers. Eggs: 15, \$2; 30, \$3.50; 50, \$5; 100, \$9. W. G. Meradith, Danvers, Ill. 4-6

BARRED PLYMOUTH ROCKS—E. B. Thompson Ringlet strain, direct. 15 eggs, \$3; 30 eggs, \$5; prepaid. Chas. Woodfill, Madison, Ind. 4-6

RINGLET BARRED ROCKS—Eggs for hatching, \$2 per 15; \$3.50 per 30. Wm. P. Klemm, Lombard, Ill. 4-5

BARRED ROCK BABY Chicks—12 cents; eggs, \$1 per 15; \$6 per 100. Elmer Lindstrom, Clinton, Mo. 4

RINGLET BARRED ROCKS—Show birds that lay eggs in the winter. Mating list free. A. R. Smith, Alma, Mich. 4

HEINRICHSMER'S PULLET-BRED Barred Plymouth Rocks awarded seventeen blue ribbons and two cups past three seasons. Eggs, \$2, \$4 per 15. Geo. Heinrichsmeier, Macon, Ill. 4

BARRED ROCK HATCHING Eggs. Bancroft Heinlein, Dover, Mass. 4

FOR SALE—STOCK and eggs from Ringlet Barred Rocks. Eggs, \$2 per 15. Henry Hilberg, East Moline, Ill. 4

GRIM'S BARRED ROCKS—Myers' Lady Beautiful strain direct, and Ringlets. Prize stock, heavy layers. Eggs, \$2.25 and \$3 fifteen. Frank C. Grim, Staunton, Va. 4

EGGS FOR HATCHING from pure-bred Barred Plymouth Rocks (Park's strain) and bred to lay; \$2 per 15. Edwin F. May, Bainbridge, Ohio. 4-5

E. B. THOMPSON'S RINGLET Strain Direct, Pullet Matings. Eggs, 15, \$1.75; 50, \$4.50; 100, \$8. Amos A. Hieser, Fisher, Ill. 4-5

BARRED ROCK EGGS for Hatching—15, \$2; 100, \$7; satisfaction guaranteed. J. W. Beck, Queen City, Mo. 4

BRED-TO-LAY BARRED ROCKS—Park's strain direct. 15 eggs, \$1; 100, \$6. J. C. Scrivner, Dahlgren, Ill. 4-6

BARRED ROCKS—Bred from America's leading strains in both light and dark matings. Eggs, \$3 and \$2 per 15. Shipped prepaid. Order from this adv. or write for further particulars. J. E. Davenport, 6940 Bradley Ave., St. Louis, Mo. 4

PARK'S BARRED ROCKS—Prize winning 210-egg bred. If you want delicious, meaty, quick maturing fryers, persistent layers and handsome breeders and be satisfied as an army of old customers are, order my hatchable eggs and livable chicks. Write Elizabeth Woodmansee, Highland, Ohio, today for folder and buy superior stock. 4

HATCHING EGGS—Quality product at utility prices. Send for circular. Chilson's Poultry Yards, Northampton, Mass. 4-5

BUFF PLYMOUTH ROCKS

BUFF ROCKS OF QUALITY—Stock and eggs. Moore & Son, Holland, Mich. 3

BUFF ROCK BREEDERS—Improve your flock with one of our bred-to-lay cockerels; winners at Boston, Madison Square; cocks, hens, pullets. Field, Somers, Conn. 2-4

BUFF ROCKS—A few fine cockerels left at \$2. Eggs from select pens, \$1.50 and \$2 for 15. Mrs. H. T. Price, Route 6, Elkhorn, Wisconsin. 2-4

BUFF ROCKS—LAYERS, winners. Eggs from pens headed by first cock and first cockerel, champion male, at Greater Chicago show, Jan., 1918. Reasonable. Circular free. W. E. Russell, Wautoma, Wis. 3-5

BUFF ROCKS—BEST pens of selected layers; fifteen eggs for \$1. H. G. Liddle, Wever, Iowa. 2-7

BUFF ROCKS—WINNERS at Wisconsin Poultry Show, first, second, third pullet, third cockerel. Eggs, \$2.50 per 15. H. Vitense, 628 Oakridge, Madison, Wis. 3-5

BUFF AND COLUMBIAN Plymouth Rocks—Good color, type, etc.; good layers. Eggs, \$3 per 15. James W. Elliott, Decatur, Ill. 3-5

BUFF ROCK EGGS—Farm range, large; great laying strain; \$1.50 per 15; \$4.50 per 50; \$8 per 100. Mrs. W. Vickerman Riggs, Franklin, Ind. 3-5

ASTLE'S QUALITY BUFF Rocks—Chicago winning strain. Trap-nested layers. Eggs, \$2 and \$3 per 15. Milan C. Astle, Box A, Mokenca, Ill. 4

DUCCLOS BUFF ROCKS win again at Boston, 1918: Cock 4th, hens 1st and 5th, cockerel 6th, pullets 3rd and 6th—three selected pens; eggs, \$4 per 15. B. N. Duclos, Lenox, Mass. 4-6

KRAMER'S BUFF ROCKS win best display at recent Chicago Coliseum and Milwaukee shows. If desirous of obtaining eggs from the best Buff Rocks and at very reasonable prices, send for my free illustrated catalog. Frank W. Kramer, Fort Atkinson, Wis. 4

COLUMBIAN PLYMOUTH ROCKS

IF YOU WANT proven 200-egg strain Columbian Rocks that are fit to show, write J. M. Jones, Hornerstown, N. J. 2-4

COLUMBIAN PLYMOUTH ROCKS—Farm raised stock and eggs for sale. Oren Anthony, Louisville, Ohio. 3

COLUMBIAN ROCKS—200-egg strain and New York Garden winners. Write for prices—eggs and stock. T. J. Enslin, Hackettstown, N. J. 4-5

PARTRIDGE PLYMOUTH ROCKS

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 474. 5-15-16

EGGS FROM HIGH-CLASS Partridge Rocks. Paul Wurtzel, Freeport, Ill. 2-5

PARTRIDGE ROCKS for sale—Noftzger Strain. Good cockerels and eggs. Write for mating list and prices. Geo. Miller, Napanee, Ind. 2-4

PARTRIDGE PLYMOUTH ROCKS—"Winners in five states." Eggs for hatching, \$2, \$3, \$5 per 15; baby chicks, 25c. Mammoth Poultry Yards, Box A-31, Tahlequah, Okla. 2-4

PARTRIDGE ROCKS—Priced reasonable. State Fair winners five years. Frank Neudecker, Sleepy Eye, Minn. 3-5

OWN-LAND FARM'S American Beauty Partridge Rocks—Boston winners, 1918. South Hammond, New York. 4-6

ILLINOIS STATE SHOW Winners—Eggs, \$2.50 per 15, prepaid. Special price this month, pullets, 2 for \$5. Catalog free. John Hacker, Dept. A, Marissa, Ill. 4-6

WHITE PLYMOUTH ROCKS

WHITE ROCK COCKERELS, direct from Poorman's trapnested, 200-egg strain, \$3 to \$5; eggs, \$2 per 15; chicks, 25 cents each. Mrs. Earl Frost, Route 2, Palatine, Ill. 2-4

WHITE ROCKS—A few cocks left; eggs for hatching. Geo. F. Conrad, Amanda, Ohio. 2-4

LANDIS WHITE ROCKS, winners at Indianapolis, Chicago, for past twenty years; extra fine show and breeding birds at fair prices; mention what you want from this ad; none better; must please; four select pens; eggs, \$5 per 15. John Landis, Edinburg, Ind. 2-7

WHITE ROCKS—U. R. Fishel strain direct; eggs of great layers, \$1.50, 15; \$3, 30; \$4, 50; \$8, 100; \$16, 200. Orders filled promptly. Henry Heitkamp, New Bremen, Ohio. 2-4

WHITE ROCKS—Eggs from large, vigorous, pure stock, \$2 per fifteen; satisfaction guaranteed. Bert Rhody, Royal Centre, Ind. 3-4

WHITE ROCKS—EGGS for hatching that will hatch. One price only. Free circular. Guaranteed service. Hoch & Frederick, Box O, Chambersburg, Pa. 3-6

NUZUM'S WHITE PLYMOUTH Rocks are good winter layers. Fifteen eggs for hatching for two dollars. M. M. Nuzum, Anderson, Ind. 3-5

WHITE ROCKS — Owen Farms Strain. Free range. Eggs, \$2 per fifteen. A. E. LeGendre, Meriden, Conn. 3-4

WHITE ROCKS—FISHEL strain. Eggs, \$1.25 per 15. Elmer Schumaker, Tamalco, Ill. 3-5

EGGS, \$1.00 PER 15; \$6.00 per 100, from our bred-to-lay and bred-to-win White Rocks. George Rigler, Bentonsport, Ia. 3-5

FIVE TO TEN DOLLAR Value—White Rock Eggs, (as others charge) \$3 per 15. Size, laying and exhibition qualities considered. George Lawrence, Manchester, Vt. 4-5

WHITE ROCKS — Farm raised. None others kept, thus insuring them absolutely pure. Large yards keeping them clean and healthy. Eggs, \$2 and \$3 per 15. A. W. Harvey, Stonington, Conn. 4-6

HALBACH WHITE ROCKS—Fine stock, \$3. Johnson, 4322 N. Albany Ave., Chicago, Ill. 4-5

WHITE PLYMOUTH ROCKS — Owen Farms strain pure. Few settings of eggs for sale from high-class matings. Send for mating list. Frank E. Palmer, Sparta, Ill. 4

WHITE ROCKS — POORMAN'S Class A cockerel mated to choice Fishel stock. Eggs, 15 cents each, \$10 per 100; pullets, \$2 each. W. H. Barnfield, Charleston, Ill. 4-5

WHITE ROCKS—Fishel direct; large, free range; eggs, \$1 per 15; \$6 per 100. John Brauer, St. Peter, Ill. 4

WHITE ROCKS—Halbach's strain. Eggs, \$1.50 for 15; \$5 for 50; \$7 per 100. Satisfaction guaranteed. C. D. Griffin, Crystal Lake, Ill., Route 1. 4-5

PLYMOUTH ROCKS—SEVERAL VAR.

EGGS FROM LARGE high-scoring Barred, Buff and White Plymouth Rocks. Eggs, \$1 per 15; \$2.50 per 50. A. Matthews, Mt. Union, Iowa. 4-6

SILKIES

SILKIES — 14 FEMALES, 9 males, \$40. Lucy Bailey, Albion, Ill. 2-4

BEAUTIFUL WHITE JAPANESE Silkies—Panama-Pacific winners. Eggs, 15 cents each. Ella Wiley, Carthage, Ill., R. 5. 4

SPANISH

WHITE FACED BLACK SPANISH cockerels for sale; winners Chicago Coliseum. Tyrone Poultry Farm, Fenton, Mich. 2-4

FOR SALE—WHITE FACED Black Spanish eggs, 15 for \$1.50; 30 for \$2.75; 100 for \$6. Good stock. Lonella E. Jaqna, Port and, Indiana. 2-4

WHITE FACED BLACK Spanish—Stock and eggs. Winners Indiana shows—Newcastle, 1913; Marion, 1914; Goshen, 1915; Logansport, Marion, 1916; Indiana State Fair, 1916, 1917; Greater Chicago Show, 1918. J. R. Galloway, Elwood, Ind. 2-5

EGGS—COLISEUM WINNERS, \$3 per 15, delivered; other pens, 10c per egg. Tyrone Poultry Farm, Fenton, Mich. 3-5

WHITE FACED BLACK Spanish—Great layers. Eggs for hatching. Also Buff Orpingtons. Write F. T. Walker, Blanchester, Ohio. 3-5

WHITE FACED BLACK Spanish — From prize winners. Sam Jones, Church Creek, Md. 4

RED SUSSEX

HATCHING EGGS from extra nice Red Sussex chickens; great layers. E. H. Hayward, Fairbank, Iowa. 3-5

RED SUSSEX—Ideal dual purpose fowl. Eggs from exhibition and utility matings. Catalog. Sebree Red Sussex Yards, Olney, Ill. 4

SPECKLED SUSSEX

SPECKLED SUSSEX — Stock and eggs. Sparling Sisters, Garden Grove, Iowa. 2-4

SPECKLED SUSSEX—Quick growers; fine for broilers and roasters; 15 eggs for \$2. Rockhorn Farm, Wheaton, Ill. 3-5

FIELD'S SUSSEX — CHICAGO winners. Stock, eggs. Field Bros., Sandwich, Ill. 3-5

MADISON SQUARE GARDEN, 1917-1918, 1st cockerel, 3d cock; Palace, 1916, 2d cockerel, 2d hen. Three pens mated to produce more winners. Eggs, \$3 per 15. Joseph Preece, Fort Washington, Pa. 4-6

SPECKLED SUSSEX—Sired by Tommy Atkins, undefeated champion of the world. Eggs, \$5 per 15. C. S. Wells, Delaware, O. 4

EGGS FOR HATCHING from imported Speckled Sussex at \$3 per 15. Henry Hilberg, East Moline, Ill. 4

BLACK WYANDOTTES.

BLACK WYANDOTTE EGGS, \$2 per sitting. R. E. Hickman, Girdletree, Md. 3-5

BUFF WYANDOTTES

BUFF WYANDOTTES—267 egg record; proof; write for circular and contest record. Layers; winners. J. J. Dansro, N. Clarendon, Vt. 2-4

BUFF WYANDOTTES—Have purchased the entire stock of F. L. Waterman Buff Wyandottes and will sell a few choice cockerels and cocks at reasonable prices. Also booking orders for hatching eggs from prize winning stock. Write for prices to Alfred W. Hobeln, Barrington, Ill. 3-4

BUFF WYANDOTTES OF quality—Eggs from silver cup winners. Send for free mating list. William E. Woolley, Sidney, Ohio, Route 5. 3-5

GOLDEN MODEL BUFF Wyandottes—Winners at Chicago, Columbus and Cleveland. Stock and eggs. B. M. Owens, Shiloh, Ohio. 3-4

LANGE'S BUFF WYANDOTTES—Winners, layers, payers. Two shows, 16 entries, 11 ribbons. Breeders or sale. Eggs, \$3 per 15, 30 for \$5. J. Y. Lange, 1191 Scotten Ave., Detroit, Mich. 3-5

BUFF WYANDOTTES—Sanborn strain, wonderful layers; winners. Eggs, \$1.50 per 15; 100, \$8. Ben Threlkeld, Ewing, Ill. 3-5

BUFF WYANDOTTES of high egg record ancestry; \$3 per 15. Ralph M. Smale, Pottstown, Pa., Route 2. 3-5

BUFF WYANDOTTE Eggs—Contest strain. Mrs. S. H. Brooks, Salem, Ind. 4

COLUMBIAN WYANDOTTES

BRED-TO-LAY COLUMBIAN Wyandottes, 15 eggs, \$1.50; 100, \$8. L. S. Spafford, Martville, N. Y. 3-5

COLUMBIAN WYANDOTTES—Bred to lay but prize winners; exhibition mating eggs, \$3 for 15; yard eggs, no inbreeding, no culls, \$1 for 15. Ira Parrack, Santa Anna, Texas. 2-4

TENTH ANNIVERSARY SALE—Breeding cockerels a specialty; vigorous, trapnested stock; winners always. Boston, New York. (No eggs or chickens.) Write needs. Address Ralph Woodward, Box J, Grafton, Mass. 2-4

COLUMBIAN WYANDOTTES—Hatching eggs and baby chicks, from range raised, bred-to-lay stock of exhibition quality; prices reasonable, quality considered. Chris. Hendricks, Glasco, N. Y. 2-5

COLUMBIAN WYANDOTTE cockerels—Exhibition and utility; bargains if taken at once. Write Frank Male, Gardner, Ill. 3-5

MICHIGAN'S CHAMPION COLUMBIAN Wyandottes, greatest of all layers; established their reputation by the show-room records they attained from coast to coast. Eggs from six grand exhibition matings, selected for size, markings and vigor. Fertility and satisfaction guaranteed. Arthur Schaack, 605 Rohns Ave., Detroit, Mich. 3-4

COLUMBIAN WYANDOTTE EGGS that produce chicks that pay if feed is high. S. M. Watkins, Walnut, Ill. 3-5

COLUMBIAN WYANDOTTES that have always been winners at Chicago, Minneapolis and Minnesota State Fair. Geo. A. Kersten, Washburn Park, Minneapolis, Minn. 3-4

SUPERIOR STRAIN WINS again at Boston, 3 pullet, 4 cock, 3 pen. Choice breeders, reasonable. Hatching eggs from as good as the best. Gilbert Poultry Farm, Whittier Road, Haverhill, Mass. 3-5

COLUMBIAN WYANDOTTES—Wilburtha strain. Baby chicks, hatching eggs. Fordham Poultry Yards, Sayre, Pa. 4

SUPERIOR STRAIN WINS again at Boston. Special sale of choice breeding cockerels. Hatching eggs from pens headed by winners, \$5 and \$2.50 per 15. Gilbert Poultry Farm, Whittier Road, Haverhill, Mass. 4

GOLDEN WYANDOTTES

GOLDEN WYANDOTTES, bred for exhibition and utility; stock and eggs. R. Dick, Brunswick, Me. 2-4

GOLDEN WYANDOTTES — Fancy and utility; Batesville, Chicago, Indianapolis winners. Eggs, \$2, \$3 and \$5 per 15. Chas. Dieckmann, Batesville, Ind., R. 2. 3-4

GOLDEN WYANDOTTES—Choice cockerels, pullets and eggs from prize winning stock. F. C. Liles, Collins, Ohio. 3-4

GOLDEN WYANDOTTES—First and second prize winners at St. Louis Coliseum. Hatching eggs, first pen, \$3 per 15, \$5.50 per 30. Second pen, \$2.50 per 15, \$4 per 30. Circular free. Sunflower Poultry Farm, Guss C. Goeddell, Waterloo, Ill. 4-5

PARTRIDGE WYANDOTTES

PARTRIDGE WYANDOTTES—Eggs from Premiers, \$1.50 per 15; 50, \$3.50. Fertility guaranteed. E. H. Casey, Ewing, Ill. 2-4

PREMIER PARTRIDGE Wyandotte Eggs from excellent matings. Lloyd Caldwell, Neoga, Ill. 4

PREMIER PARTRIDGE WYANDOTTES —Won 1st cock, 1st hen, 1st-2d cockerel, 1st-2d pullet, 1st pen, champion sweepstakes cock, at great St. Louis Coliseum show. Eggs, \$2.50 per 15 up. Chicks, 30c each. Folder free. A. Louis Keim, Box 93, Waterloo, Ill. 3-5

SILVER LACED WYANDOTTES

S. L. WYANDOTTE hens and cockerels scored and unscored; Tarbox and Steinmesch strain; eggs in season. Mrs. C. W. Whitham, Fairfield, Iowa. 1-4

SILVER WYANDOTTES—Prize winners; eggs for sale; circular. H. O. Giese, Princeton, Wis. 2-4

SILVER WYANDOTTE EGGS—Prices reasonable; exhibition matings. Every first. Eastern Illinois show. Roy McCracken, Paxton, Ill. 3-5

SILVER WYANDOTTES — Hundreds of choice breeders and exhibition birds; also eggs from trapnested hens. Circular free. Chas. Schroeder, St. Peter, Ill. 3-4

SILVER LACED WYANDOTTE Eggs—\$2, \$3 and \$5 per 15. Splendid breeding pullets for sale. Circular free. Satisfaction guaranteed. B. A. Romich, Creston, O. 4

SILVER LACED WYANDOTTE eggs for hatching. Also baby chicks. Mrs. Gertrude Whitten, Elmwood, Ill. 3-4

FOR SILVER LACED Wyandottes, the kind that win and lay, address Helfrich Brothers, Hammond, Platt Co., Ill. 3-4

EGGS FROM HEAVY layers, direct from winners. Breeding Tarbox strain. Louis H. Eickmeyer, R. 8, Watertown, Wis. 4-6

SILVER LACED WYANDOTTES—Have my pens mated to produce quality and layers; eggs, \$1.50 and \$2.50 per 15. E. S. Northrup, Reading, Mich. 4-5

SILVER WYANDOTTES—From prize winners. Sam Jones, Church Creek, Md. 4

SILVER WYANDOTTE EGGS at \$4 per 50, \$7 per 100. Let me know your wants. J. L. Harms, Route 2, Box 38, Fairbury, Neb. 4-5

SILVER WYANDOTTE EGGS, \$2 per setting. From layers and show birds. M. Guy Eby, Cassopolis, Mich. 4-6

SPANGLED WYANDOTTES

SPANGLED WYANDOTTES—The new, ideal breed; stock and eggs. L. Cook, Originator, Oakville, Iowa. 2-4

WHITE WYANDOTTES

"REGAL" WHITE WYANDOTTES—\$3 up; eggs, \$1.25 up. Write for circular and winnings. Satisfaction guaranteed. Hugh Barnes, Trenton, Mo. 1-4

WHITE WYANDOTTES exclusively—Stock and hatching eggs for sale. Orchard Poultry Yard, St. Peter, Ill. 12-16-17

WHITE WYANDOTTES—Hatching eggs; order now; satisfaction guaranteed; mating list. Edw. C. Wiesenborn, Grand Chain, Ill. 2-4

ST. CLAIR'S WHITE WYANDOTTES—Year-round layers; bred for years for egg production, vitality and beauty; hatching eggs, \$2.50 for 15; \$10 for 100; satisfaction guaranteed. St. Clair's Wyandotte Farm, Downing, Mo. 2-4

\$4.25 PER 100 EGGS—Welday's Laymore White Wyandottes; quality unequalled; catalog. Welday, Seville, Ohio. 2-4

MARTIN'S WHITE WYANDOTTES—Eggs, chicks, breeders; catalog free. Riverdale Poultry Farm, Riverdale, N. J. 2-4

WILSON'S WHITE WYANDOTTES—Regal Dorcas strain; they win and lay; 15 choice cockerels, \$5, \$8 and \$10 each; eggs, \$3 for 15; write for list of winnings and mating list. James C. Wilson, Peoli, Ohio. 2-4

WHITE WYANDOTTES—Stock and eggs for sale; write for price list. Earnest Massey, Mystic, Iowa. 2-18-17

TOM BARRON EGG-BRED White Wyandottes. Eggs, \$2 for 15. Chicks, 20c each. J. A. Shott, New Wilmington, Pa. 2-4

WELLS' WHITE WYANDOTTES—Line-bred. Prize winners. Splendid layers. Eggs from choice matings of exhibition quality, \$3 per 15; \$5 per 30; \$12 per 100. M. G. Wells, Sellersburg, Ind. 2-4

TOM BARRON STRAIN White Wyandottes. Eggs from selected trap-nested hens, \$3 per 15. Infertiles replaced free. Bracksieck Bros., Hardin, Ill. 3-5

WHITE WYANDOTTES—Eggs from big heavy layers; satisfaction guaranteed. Fred Stoler, Alexandria, Ind. 2-4

BUSINESS-BRED, VIGOROUS White Wyandottes. They're real beauties and big producers. Eggs from special dual-purpose matings, 15c each. E. Sweet, Pierre, South Dakota. 3-4

ENGLISH WHITE WYANDOTTE hatching eggs. Imported stock. Geo. Hynick, 322 East Grant Ave., Altoona, Pa. 3-4

WORLD'S RECORD LAYING strain White Wyandottes. Limited number of settings for sale from record producing birds of English origin. An exceptional opportunity to secure blood from private flock of prolific layers. Each egg guaranteed. Prices, 25 cents per egg. Any size setting desired. Order at once. Gordon Kingsbury, St. Clair, Mich. 1

WHITE WYANDOTTES. S. C. Ancona eggs, \$5 per 100. O. J. Austin, Pana, Ill. 3-5

WHITE WYANDOTTES—Martin, extra fine, mature stock; pure white, heavy layers; winners St. Louis, Indianapolis, Marion; best pens, 15 eggs, \$3; 50, \$7; fine range flock, 15 eggs, \$1.25; 50, \$3.50; 100, \$6.50. Cockerels, \$2 to \$10. Herbert Smith, Route 8, Bluffton, Ind. 3-4

EXHIBITION REGALS—EACH bird is up to or above Standard in weight, pure white, orange yellow legs, with broad and full breast, and they come from prize winning parents, too. Also have a grand pen of breeders with records from 203 to 223, headed by Federal Cecile, whose mother's official record was 224 and grandmother's official record was 265 eggs. Will spare a few eggs from either pen, 50c each; from our vigorous utility matings, \$1.50 per setting. Federal Poultry and Stock Farm, Federalburg, Md. 3

WHITE WYANDOTTES—Hatching eggs, \$2 for fifteen. John B. Sheets, Hagerstown, Md. 3-4

WHITE WYANDOTTES—Eggs from stock with breeding equal to any in America. Please write for prices and description of matings. I guarantee satisfaction. J. F. Garrison, Mt. Vernon, Ill. 3

WHITE WYANDOTTES—Blue ribbon winners. Pen eggs, two, three and five dollars per fifteen. Utility, nine dollars per hundred. Regal strain direct. Send for mating list. Ivor Jones, Bourbon, Ill. 3-5

WHITE WYANDOTTE EGGS—Two pens, \$2 per fifteen; two pens, \$1.50. Ye Quill and Apple Yards, Sanders Bros., Ottawa, Ill. 3-4

WHITE WYANDOTTE eggs from Chicago winners, \$3 and \$5 per 15. Send for catalog. A. J. Shannon, Appleton, Wis. 3-5

JOHN BRUHN, HOMER, ILL., breeder of Ideal White Wyandottes. Guaranteed eggs from choice flock, \$1.50 per 15; \$7.50 per 100. 3-5

REGAL-DORCAS WHITE Wyandottes—Stock, eggs, chicks. Acme White Poultry Farm, Brookline, Vt. 3-5

WHITE WYANDOTTE EGGS—\$7.50 per 100. Good stock. Russell Simpson, Palmer, Ill. 3-5

WHITE WYANDOTTES exclusively—Several years' breeding, fine layers, snow white. Eggs, 15, \$1.50; 50, \$3.50; 100, \$6. Geo. Tuiss, Fredonia, Kan. 3-5

WHITE WYANDOTTES—Eggs from blue ribbon winners, also heavy layers; a great bargain, \$3 per fifteen. Warner & Aderhold, Plymouth, Wis. 3-5

YOU WANT WINTER LAYERS?—Get Miller's White Wyandottes, bred with blood from best laying strains in America. Hatching eggs, 15, \$1.50; 50, \$3.50; 100, \$6. Alfred H. Miller, Prescott, Wis. 3-5

EGGS FROM 2 CHOICE exhibition quality pens of Regal White Wyandottes, \$3 per 15. Edouard Nicollier, Monroe, Wis. 3-5

WHITE WYANDOTTES—RUDY'S Perfection strain. Eggs for hatching; reasonable. S. Martin Nelson, Momenca, Ill. 3-5

WHITE WYANDOTTE COCKERELS and pullets. Show qualities and eggs. Trapped ten years. Won first on show, also on eggs. Hatching eggs and day-old chicks. Miss Marion I. Moore, Hamburg, N. Y. 4-6

WHITE WYANDOTTES—Excellent winter layers. Utility Mating, \$7 per one hundred. Special Mating, \$1.50 per 15. Berthora Stock and Poultry Farm, Streator, Ill., R. 7, Box 69. 4

REGAL WHITE WYANDOTTE eggs, \$1.50. Fox Terrier pups. Walter Stubbs, Route 10, Kalamazoo, Mich. 4-5

WHITE WYANDOTTES—Eggs from exhibition stock, \$1.50 to \$3 per 15. L. A. Pollock, Batavia, Ill. 4-5

WHITE WYANDOTTE Eggs for hatching from prize winning stock. Send for mating list. Orchard Poultry Yards, A. A. Hauser, Prop., Hartford, Wis. 4

WHITE WYANDOTTES—Fishes strain. Pen A, 7-lb. hens trap-nested, winter layers. \$2.50 per 15. Others same strain \$1.50 per 15; \$8.50, 100. Shell Lake Poultry Farm, Shell Lake, Wis. 4

WHITE WYANDOTTES—"Keeler's" Aristocrats, 15 eggs, postpaid, \$1.50. Nick Fleck, Plymouth, Ind. 4-6

OWN-LAND FARMS' White Wyandottes (Regal-Dorcas)—Winners, Rochester, etc., since 1911. Proven prolific layers. Let us tell you more. South Hammond, N. Y. 4-6

WHITE WYANDOTTES—MARTIN strain. Pen 1, Regal matings, \$4 per 15; pen 2, Dorcas matings, \$3.50 per 15; utility eggs, \$6 per 100, \$1.50 per 15. C. R. Moses, Lake Crystal, Minn. 3-5

EGGS FROM PURE White Wyandottes—\$6 per 100. Mrs. C. C. Calhoun, Dow, Ill. 4-6

REGAL WHITE WYANDOTTES—Eggs from selected breeders and layers. Lloya Caldwell, Neoga, Ill. 4

FARM RAISED, FREE range White Wyandottes—Eggs, \$3 per 50; chicks, \$4 per 25. Emile Burnier, Assumption, Ill. 4-6

EGGS FROM PURE BRED White Wyandottes—\$2 per 15. N. S. Gifford, Johnsonville, N. Y. 4

WHITE WYANDOTTE—REGAL Dorcas strain. Bred to lay and win. Won wherever shown. Eggs, special matings, \$2, 15; \$3, 30. Utility, \$1.25, 15; \$3.50, 50; \$6.50, 100. Frank Hardwidge, Poneto, Ind. 4-5

FOR SALE—WHITE Wyandotte Hatching eggs, \$2 per 15. Robson, 340 W. 61st St., Chicago. 4

FOR SALE—SIX REGAL hens, yearlings, Cockerel, high-scoring. Tested better than two hundred eggs in pullet year. J. J. Schwetika, Canton, Minn. 4

EGGS—\$3.50 PER 15; chicks, 30 cents each, from trap-nested hens, pen average 187. C. W. Zelig, Appleton, Wis. 4-5

EGGS FROM WHITE Wyandottes—A strain which I have been improving for eight years, for both beauty and egg production. Watch the shows next fall. Eggs, \$2, \$3 and \$5 per 15; also chicks, April and May. Mrs. Julius Arp, Okoboji, Iowa. 4-5

WYANDOTTES—SEVERAL VARIETIES

LAKEVIEW WYANDOTTE YARDS—A splendid lot of healthy, vigorous birds bred from prize winners. We breed all varieties of Wyandottes. Cockerels now ready for sale delivery. We also have Black-Tailed White Japanese Bantams; limited stock for sale. Eggs in season; prices on application. R. C. Sanders, Prop., Pierre, S. D. 2-4

SILVER AND PARTRIDGE Wyandottes—If you want some of the best birds raised on Pacific Coast, write me your needs. Eggs, \$3.50 per setting. Guarantee satisfaction. The Idle Hour Poultry Farm, McCoy, Ore. 4-6

DISPERSAL SALE—Columbian and Silver Penciled Wyandottes. Prize winners. Prices reasonable. Harry Paynter, McGregor, Minn. 4

SEVERAL BREEDS

WYANDOTTES—ENGLISH; absolutely the highest official pedigree stock in America. Also Leghorns, Buff Rocks, Reds, Wyandottes, 282 eggs official; Lady Storr's, 287 eggs; Rocks, 280; Reds, 273. Morris Farm, Bridgeport, Conn. 2-4

STOCK, EGGS AND BABY chicks, Buff and Silver Penciled Rocks; Black, White and Partridge Wyandottes; Blue Orpingtons, White Houdans, Rose Comb White Minorcas, Buff Laced Polish, White Guineaes, Silver Sbright and Partridge Cochins Bantams. James G. Bailie, Platteville, Wis. 2-4

S. C. W. ORPINGTONS and **S. C. Ancona** eggs and baby chicks from choice stock; satisfaction guaranteed. G. V. Dieter, Knapp, Wis. 2-4

ENGLISH WYANDOTTES and Leghorns, Sheppard Anconas; write for list. David Walmer, Jonestown, Pa. 2-4

SALMON FAVOROLLES, Millefleur Bantams, Erect White Runner ducks; extra fine. N. G. Buxten, Johnstown, Ohio. 3-5

EGGS—Two Pens prize-winning R. C. R. I. Reds. Stock from champion Coliseum Show, 1916. R. C. R. I. Whites, pullets laying at 4½ months. All eggs, \$2 and \$3 for 15. John H. Wolgast, Danforth, Ill. 2-4

WHITE WYANDOTTES. S. C. Black Minorcas, S. C. Buff Orpingtons, White Guineaes; best stock; eggs cheap. Elmer Patterson, Dix, Ill. 2-5

BUFF ROCKS, CRESCENT strain; White Rocks, Fishel strain, and White Orpington, Aldrich strain; eggs; Buff baby chicks. Rachel Sheppard, Route 1, Pearl, Ill. 2-5

NICE TOULOUSE GESE, \$6 per pair. Stock and eggs. 40 breeds land and water fowls. Won 470 prizes at Indiana and Illinois State Fairs, 1917. Catalog, 3c. Chas. Smiley, R. 14, Judson, Ind. 2-4

FOR SALE—35 BREEDS poultry, turkeys, ducks and geese. Hatching eggs. Incubators and brooders in 3 sizes. Price list free. Poland-China Hog and Poultry Farm, Mankato, Minn. 2-4

BREEDER OF 20 VARIETIES of poultry, 15 varieties of Bantams. Stock and eggs for sale. The home of blue ribbon winners. Plain View Poultry Farm, New Knoxville, Ohio. 3-5

AMERICAN DOMINQUES—Black Javas, Dark Cornish, Light and Buff Brahmas. Circulars. Dr. Harwood, Malone, N. Y. 2-4

ROYAL W. WYANDOTTES, R. C. Rhode Island Reds. Extra quality pens headed direct from Chicago winners. Heavy layers. Reasonable prices; satisfaction guaranteed. Write for mating list. Lester Barkman, Ohio, Ill. 3-5

ROSE COMB ANCONAS and American Dominiques. Ask for circular. Miss Helen Hoppe, Melrose, Minn., Route 3. 3-5

EGGS, 13 FOR 1, 30 for \$2. Thorbred Rocks, Wyandottes, Reds, Leghorns, Hamburgs; 19 varieties; 36 years. Catalog. S. K. Mohr, Coopersburg, Pa. 3-5

S. C. BLACK MINORCA and Golden Campine eggs from thorbred stock, \$1.50 per setting; \$10 per hundred. Wm. S. Dupre, Antioch, Illinois. 2-4

BOURBON RED TURKEY eggs—Old hens scored stock; extra large dark red, 50 cents each; \$4, 10; \$7 per 20. Single Comb Red, White Rock eggs, \$2.50 per 15, \$5 for 50. Mrs. Frank Spurling, Lovington, Ill. 3-5

EGGS FOR HATCHING—Will sell a limited number of sittings from choice pens of S. C. White Orpingtons, S. C. Buff Orpingtons and S. C. Rhode Island Reds. Orders filled in order received. Price, \$3 per sitting of fifteen eggs. Thousand Oaks, Green Lake, Wis. 3-4

90 VARIETIES HAIR and feather birds; hatching eggs a specialty; complete list free. Bergey's Pet Farm, Telford, Pa. 3-4

R. C. W. LEGHORNS—Winners at Chicago, Milwaukee, Minneapolis, Duluth and many others. Eggs for hatching, \$10 per 100; \$5 per setting. White Plymouth Rocks, Halbach's strain, winners at North Dakota State Fair, 1917. Eggs, \$5 per setting; \$15 per 100. Mrs. J. Wolf, Merrifield, N. Dak., Box 40. 4-6

BRED-TO-LAY STRAIN White Wyandottes, Rhode Island Reds and Barred Rocks—Eggs in season. N. E. Robart, Caledonia, Mich. 4-6

BARRED ROCKS, BLACK Langshans, Rhode Island Reds, Ancona and Lakenvelder eggs, 15 for \$1.50. T. P. Leland, Newcomerstown, Ohio. 4

BABY CHICKS AND EGGS—S. C. White Leghorns, Anconas, Reds and Rocks, 200-egg strains, range bred; prices reasonable. Sweet Briar Farm, Ontarioville, Ill. 4-5

EGGS OF QUALITY—From prize winners and heavy laying (strains 204, 211, 244, eggs) Barred Rock, Partridge Rock, S. C. R. I. Red, and White Wyandottes. Write for right prices. John W. Boyd, St. Elmo, Ill. 4

BLACK JAVA, BLUE Andalusian eggs, \$1.50, 15; Blues, 1918, late Chicago winners. Herbert Hodgson, Albion, Ill. 4

HATCHING EGGS—Langshans, Minorcas, Red Caps, and Bantams, \$2 per setting or assorted settings. W. Dane, Oshkosh, Wis. 4

EGGS FROM EXTRA Good Rose Comb Rhode Island Whites and Reds. Prices right. Omer J. Sears, Lapel, Ind. 4-6

FOR SALE—EGGS at \$2 per setting, delivered, from my heavy winter laying White Wyandottes and R. C. R. I. Reds. Also a few settings from my prize winning S. C. W. Leghorns at \$3 per setting. Hens in this mating scoring 98½. Also day-old chicks for sale. John Cook, Ironton, Ohio, Box 374. 4

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EGGS—\$2 FOR 15. White, Partridge, Silver Laced Wyandottes; Buff, White, Barred Rocks, Anconas, R. I. Reds. H. C. Short, Neoga, Ill. 4

EGGS—SINGLE COMB Rhode Island Reds, Buff Orpingtons, 15, \$1.50. White Pekin ducks, 11, \$2. Harold W. Price, Fulda, Minnesota. 4-5

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EGGS—\$1 PER 13; \$2 per 30. From thoroughbred Silver Campines, Light Brahmas, Columbian Wyandottes, \$1 per 15; \$2 per 40, from Rocks, Reds, Leghorns, Minorcas. S. G. Bealer, Coopersburg, Pa. 4-6

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SINGLE COMB WHITE Leghorns, Single Comb Rhode Island Reds. My March hatched pullets averaged almost 50 percent egg yield in December and January. Send for proof. Eggs from either breed, \$3 per 15; \$5.50 per 30. C. E. Rodgers, Montgomery, Mich. 3-5



BABY CHICKS—Bean Strain. Dark Rose Comb Reds. Fine layers. Big bone. March and April chicks, 18c; May and June, 15c. Eggs, \$2 per 15; \$7 per 100. Mrs. C. E. Schlots, Elmwood, Ill. 3-5



RAISE HARES FOR US—We furnish stock and pay you \$2 each and expressage when three months old. Contracts, booklet and full information, 10c. Thorson Rabbit Company, Dept. 14, Aurora, Colorado. 2-4



S. C. WHITE LEGHORNS—288-egg line; Young's strain; heavy winter layers or money refunded. No hucksters. You get our best. Chicks vigorous, anybody can raise. Circular free. Eggs, 15, \$1.35; 100, \$7.50, prepaid. Cloverdale Leghorn Farm, Dr. Cantrell, Prop., Aurora, Mo. 4-6



WORLD'S BEST in Game Fighting Fowls—Mugwumps, Southern Guards, Cuban Muffs, Nephite Jennies, and my beautiful U. S. Marines, spangles of red, white and blue. Select eggs, \$5 per 15. Circular free. Alfred F. Graham, Cameron, N. C. 11-17-lyr



WHITE ORPINGTONS—Bred for purity of color. Prolific utility and exhibition. Eggs from better than 200 trapnested egg record layers. From mated pens, \$3 per 15; \$5 per 30. Utility, \$2 per 15; \$3.50 per 30; \$10 per 100. Fertility guaranteed. Send for mating list. R. E. Sandy, Stuarts Draft, Va. 4



BRONZE TURKEYS—None better in America. Flock headed by 53-lb. tom. Also choice Toulouse, Embden, African and English Buff geese. Eggs from above birds \$4 for 10. C. R. Smith, Burnt Prairie, Ill. 3-6



EGGS FOR HATCHING—Peterson's pullet-bred Barred Plymouth Rocks. Eggs from two selected pens, \$5 for 15; from flock, \$2.50 for 15. 10 fine cockerels at \$5 each. John Peterson, Box 29, Randall, Ia. 3-18-lyr



McILROY'S TRUE FAWN and White Runners. Unequaled as layers. Large white egg strain. Setting eggs, special mating, 12 eggs \$2. Other matings, \$1.50 per 12 eggs; 30 eggs, \$4; 50 eggs, \$6. Safe delivery and reasonable satisfaction guaranteed. Pearl McIlroy, Marysville, Ohio. 4-6



BARGAIN—Single Comb White Leghorn eggs from a combined pen of bred-to-lay and prize winning stock, only \$1.75 per fifteen, or \$9.50 per hundred. Satisfaction guaranteed. J. K. Searles, Atchison, Kans. 4



FINE SINGLE COMB White Leghorn baby chicks. Barron, Young and Smith stock. Shipped 2,000 miles safely. \$15 per 100. Eggs from trapnested, bred-to-lay, 280-egg strain, no better anywhere. \$3 per 15. Iowa Hatchery, Moulton, Iowa. 4-5



DAY-OLD CHICKS for sale—10 varieties; thousands per week, hatched by one of the oldest hatcheries in the country, means strong hatched chicks. Two-cent stamp brings circular. Old Honesty Hatchery, Dept. A, New Washington, Ohio. 4-6



DARK CORNISH—Mated for the 26th season. Northcliffe, just imported, heads one pen. All pens are superb and will produce great birds. Eggs for hatching, \$5 to \$15 per setting of 15 eggs. T. D. Moore, Hopkinsville, Kentucky, Route 7. 12-17-1yr



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NORTHERN STRAIN S. C. White Leghorns. A sturdy Northern grown strain. Four consecutive years blue ribbon winners at Wisconsin State Show. Eggs for hatching from four grand pens. Satisfactory hatch guaranteed. Mating list free. L. C. Hanley, Dept. B, 71 Vinland St., Oshkosh, Wisconsin. 4

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CONTAINS OYSTER, sea shells, charcoal, bone, a tonic conditioner and regulator, layer, disease preventer, all in one. Samples and booklet, 100 lbs., \$1.50; ton, \$22. A. B. McArthur, The Grit Man, Pittsfield, Mass. Remember, your dealer can get it for you. Inventor of Koyal Last, the wonderful coal saver, for hard or soft coal. Sample 10c. 4

SINGLE COMB WHITE WILSONS

SINGLE COMB WHITE Wilsons mature quickly. Pullets lay at 5 1/2 months, are non-sitters and heavy layers of large white eggs. Hatching eggs and baby chicks. Free mating list describes them fully. N. W. Williams, originator, Box A, Wilson, Va. 4

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A NEW BREED of chickens. A splendid table fowl and great winter layers. They cannot fly and are covered with valuable feathers. Eggs and young stock for sale. Send for free catalog. W. R. Black, Bolivar, Ohio. 3-5



BABY CHICKS FOR APRIL—Barred Plymouth Rocks, White Rocks, Buff Orpingtons, White Orpingtons, White Wyandottes, Single Comb Rhode Island Reds, Single Comb White Leghorns. Write for free circulars. Name breed wanted. Martin Michelson, 232 5th St., Aurora, Ill.; Chi. Phone 884J. 4-6



HELP TO FEED the world—Start right now and start with Fisher's Single Comb White Leghorns, best winter laying strain in Middle West. Satisfaction guaranteed. I do not ask large amount for start. Eggs, \$6 per 100. Infertile eggs replaced. Frank Fisher, Wilson, Kans. 4

Bradley Bros.' B. P. Rocks

Lee, Mass. Cockerels

From Our First Prize Boston Winning Stock

Better than Their Sires—Females to Match Eggs for Hatching



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from some of the best birds we ever owned, including most of the best of our Boston winners—\$10 per 12; \$20 per 26, \$25 per 33; \$67 per 100, carefully selected and packed to carry safely any distance. Send order early as sales are limited. Our breeders for sale at close of season. We do not sell Baby Chicks.

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BOX 909 - - LEE, MASS.

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4800 Candee 1915 Model, better than new, including extra regulator, \$400 New Jersey. 8400 Candee 1916 Model, hatched in only twice, \$650 Ohio. Single sections \$45 each. 390-Egg Prairie State 1917 Model, \$35 Michigan. 600-Egg Buckeye 1917 Model, \$45 Ohio. 390-Egg Model 1916 Model, \$25. 390-Egg Buffalo 1916 Model, \$40. Have number each above Lamp Incubators. Order from this advertisement.

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Arlington Strain S. C. Reds

OUR SEASON 1917-18 WINNINGS: New York State Fair—1st cock, shape special, 4-5 hens, 5th pullet, 3d pen and 2d best display. Madison Square Garden—3d cock, 3d hen, 4th cockerel (51 in class), 2d pullet and 3d best display. 100 fine cockerels, all pure Arlingtons, for sale. We have 10 of the strongest Single Comb Red matings to be found on any one farm in America, from which eggs and chix will be sold without reserve. For catalog and prices address

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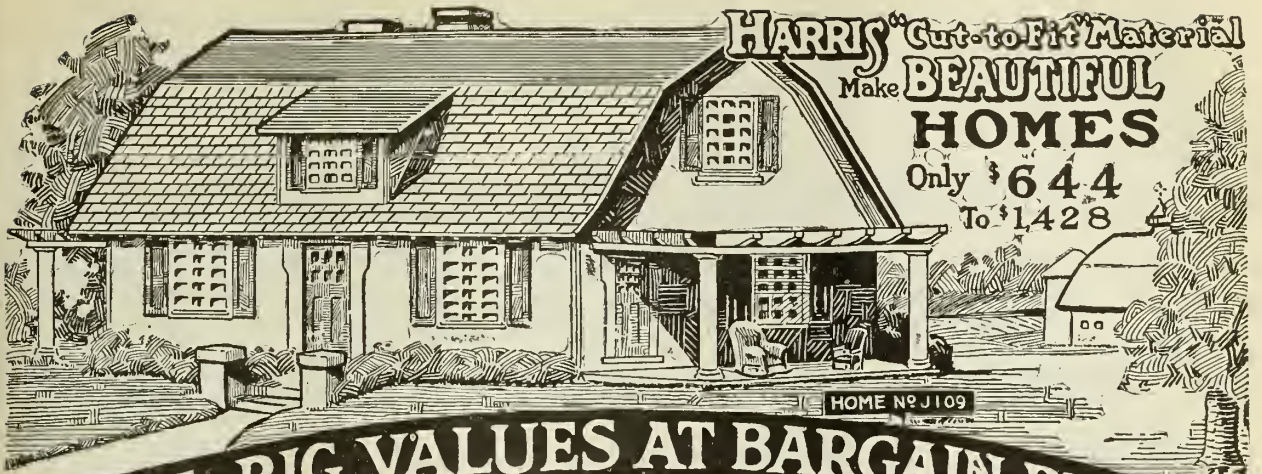
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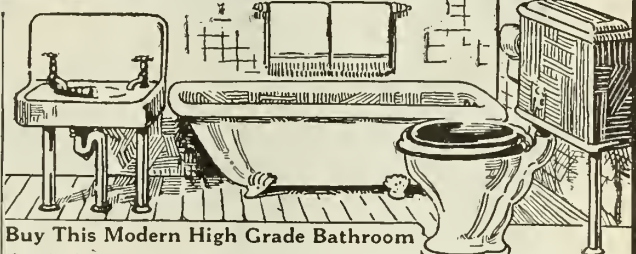
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- 26 gauge, painted, 2 1/2 inch corrugated overhauled roofing sheets. Lot No. GL307, 100 square feet **\$3.00**
- 24 gauge, Extra Heavy, painted, 2 1/2 inch corrugated overhauled, 100 sheets, for roofing barns, granaries, etc. Lot No. GL308, square feet **\$3.50**



Buy This Modern High Grade Bathroom
 Combination, consisting of the following articles illustrated above: Bath tub, closet outfit, and lavatory. If you are figuring on furnishing your bathroom you could make no better selection than this offering. The bath tubs are 5 feet to 5 1/2 feet long, in the rim enameled style, with No. 4 1/2 Fuller Bath Cock, connected waste and overflow and nickel-plated supply pipes. The lavatory is in a handsome deep apron style, high grade white enameled iron of the best quality. Complete with "hot" and "cold" china index faucets, nickel-plated pipe connected to the floor. The Closet Outfit has a high grade golden oak tank and seat with siphon action closet bowl.

No. 5 DL 102. Complete as described above. Bathroom Outfit..... **\$49.50**
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Mixed Nails
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 1-inch **7c** Per Foot

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 4 Feet Long **\$1.15**

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For FREE Catalogs!

If you do not want to use this coupon a Postal Card request will bring you any of these books.

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The Little Giant Brooder above is built round like an incubator, and is made entirely of metal, with the exception of the flannel cover. It is rust, fire and weatherproof, and is fitted with a lamp pattern warm air heating system.

Lot No. 8GL-297 Little Giant 60-Egg Brooder. Shipping wt. **\$3.25**
 15 lbs. Price, each..... **\$3.25**

This little grinder reduces the cost of bone meal to mere labor. Teeth are strong and coarse, and will not grind corn for family use. Fresh bones should be allowed to become dry before grinding. It will grind oyster shells, gravel, cracked corn and other coarse feed. Can be adjusted to grind fine or coarse. The crusher is cone-shaped, which crushes the product first, then it passes into the coarse grinding plates. This is a much better way than many other mills made with stationary burrs. 8-6L-8021, wt. 35 lbs. **\$2.95**

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win at the Imperial Show of all the world, Madison Sq. Garden, N. Y., January, 1918, a new record unequalled in all history, as follows :



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EVERY FIRST PRIZE OFFERED

Cocks	- - - -	1st, 2d, 3d, 4th, 5th.
Cockerels	- - - -	1st, 2d, 3d, 4th, 5th.
Pullets	- - - -	1st, 2d, 3d, 4th, 5th.
Hens	- - - -	1st, 2d, 3d, 5th.
Exhibition Pens	-	1st, 2d, 3d, 4th, 5th.

Sweepstakes Champion Male and Female; Color and Shape Specials Male and Female; Best Five Males; Best Five Females; Best Display, and every other Special Prize. This is the capstone to their unexampled record at New York for 30 victorious years. At the last four shows—1915, 1916, 1917, 1918, they have won 19 First Prizes out of 20 offered. Every bird bred on my farm. Supreme at Madison Square Garden is Supreme Everywhere.

IMPERIAL "Ringlet" EGGS

You want eggs to produce the Silver Cup and Blue Ribbon winners for next season's shows. No other Barred Rock eggs have ever produced the supreme high quality birds as my imperial "Ringlets." Hundreds of old customers order eggs every year—these eggs have brought them rich rewards in Silver Cups and First Prizes, and proved the foundation for many a money-making business. My Imperial "Ringlet" eggs will put you in position to win at next season's shows, you may raise a single chick worth hundreds of dollars, hundreds of my customers have done this—**my matings are unequalled in all America.** No such magnificent color and barring can be found on any living birds.

My Eggs are the best that money can buy—they produce first prize birds.

Mr. E. B. Thompson:

Dear Sir:—I showed the E. B. Thompson strain at Charles City, December 18th to 21st, won 1st and 2d Cocks; 1st, 3d and 4th Cockerels; 1st, 2d, 3d, 4th Hens; 1st, 2d, 3d Pullets; 1st, 2d Pen. At Hampton, Iowa, January 7th to 12th—1st, 2d Cocks; 2d, 3d, 4th Cockerels; 1st, 2d, 3d, 4th Hens; 1st, 2d, 3d, 4th Pullets; 1st Old Pen; 1st Young Pen. I think that shows that E. B. Thompson has the stuff.

Clarksville, Iowa, January 14, 1918.

Yours truly, J. E. WEISS.

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EGGS from the finest Exhibition Matings in the World; one setting, \$15; two settings, \$25; four settings, \$45; 100 Eggs, \$80. Safe Arrival Guaranteed

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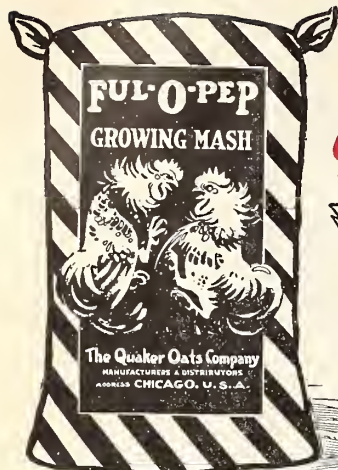
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VOL. 49, NO. 5

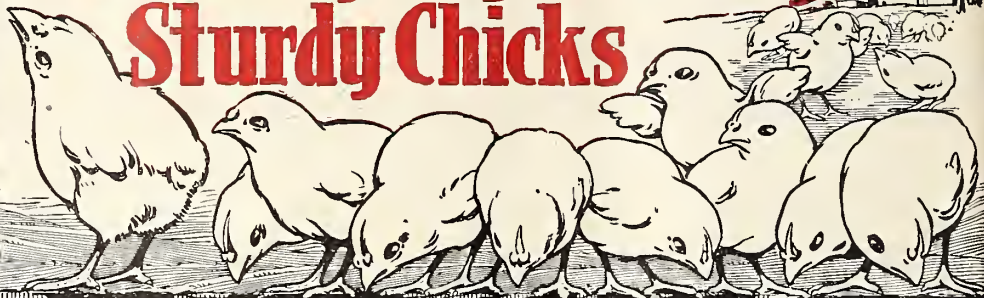
MAY, 1918



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What Makes
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of the big poultry raisers' success in raising big, sturdy, healthy chicks and why they have fewer losses?

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Thompson, Fishel, Felch, Dann, Kempster, Lambert and other experts all use it. While making exhaustive tests with different feeds for growing chicks, our feed experts discovered this same secret—AND MORE. By using oatmeal as the base and adding beef scraps, bone meal, green food and other protein ingredients to give variety and supply more bone, muscle and flesh building materials, they completed a growing feed that is SIMPLY IDEAL. We call it

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and say, how it does make young chicks GROW and THRIVE! It is so far ahead of any feed you ever tried for young chicks you will be astonished at the way they grow.

Scratch feeds won't make chicks grow big and thrifty, because it does not supply the bone, muscle, flesh, nerve and frame building nutrition required by growing chicks. Just put your chicks on FUL-O-PEP GROWING MASH and see the difference this year. They will grow bigger and faster. Your pullets will develop earlier and be better layers.

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DO YOU KNOW HOW to make hens lay larger eggs?—how to make pullets lay earlier?—how to make hens lay winter and summer?—how to select layers to make a productive flock?—how to insure fertile eggs for hatching?—how to break up a setting hen quickest and best?

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S. C. White Leghorns

—birds that have the type because they win at the shows—the vigor because they are hardy Northern bred birds, raised under ideal conditions—and laying ability because it is bred in them.

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STOCK

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Cock	\$ 5.00	\$ 6.00	\$10.00	\$10.00	\$15.00	\$ 25.00	\$50.00
Cockerel	5.00	6.00	10.00	10.00	15.00	\$20.00	25.00
Hen	.....	2.00	3.00	5.00	7.50	10.00	15.00	20.00
Pullet	.....	2.00	3.00	5.00	7.50	10.00	15.00	20.00
Trio	8.00	10.00	15.00	20.00	25.00	50.00	75.00
Pen	12.00	15.00	25.00	35.00	50.00	75.00	100.00

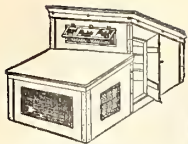
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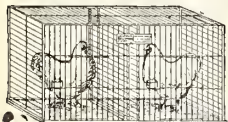
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A New Variety

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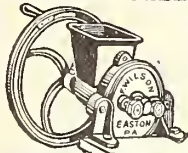
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No. 1 Mill for grinding Dry Bones, Oyster Shells, Grit and Grain for poultry. Phosphate Mills, Green Bone and Clover Cutters, Feed Mixers for Poultry Feeding, Mills of all sizes for all purposes. Hand and power. Write for illustrated Catalogue and prices. **WILSON BROS. Box 6 Easton, Pa.**

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Best Destroyer of Lice and Mites

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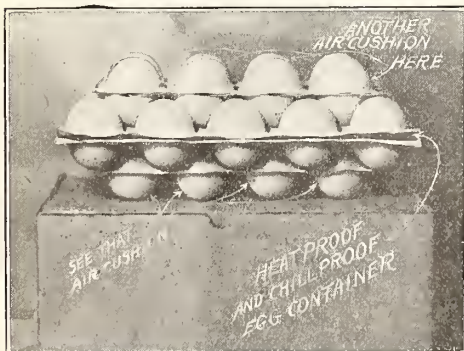
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ROBADEL POULTRY FARM

COS COB, CONN.

Where poultry is bred to perfection for pleasure
QUALITY, NOT QUANTITY, IS OUR AIM

We have purchased
Owen Farms' White Orpingtons

—the entire flock—which in addition to our already strong pens gives us undoubtedly the greatest flock of this breed in the world. There is no questioning the fact that Owen Farms has sold more and better birds and many more dollars worth of eggs for hatching the past few years than any other breeder of this variety has done. There is not a good flock of White Orpingtons in the country today that is not wholly or partly Owen Farms blood and it has been already demonstrated that the best flock of White Orpingtons in existence is on Owen Farms. The birds now in the breeding pens will not be moved until after June 1st, so that egg orders from Owen Farms list will be filled by them.

Charles Hubbard Formerly of Foxhurst Farm

LIME ROCK, CONN.

is general manager and superintendent of my plant, and his well known skill and ability as a breeder guarantees that anything you buy from **Robadel Farm** will be right. All this year's breeding pens were mated up by him after a great deal of thought, and they will produce chicks that will be eligible in any show room this fall and winter.

We are in position to care for all your wants in

HATCHING EGGS AND BREEDERS

from the finest birds in the country, bar none, in

PEERLESS STRAIN

S. C. Buff Orpingtons
S. C. Black Minorcas

S. C. White Orpingtons
S. C. White Leghorns

All hatching eggs and stock are sold on an absolute guarantee basis, and if you are interested in having the best of any of the above mentioned breeds, write us.

Send \$1.25 for a copy of Mr. Hubbard's *Poultry Secrets*, which contains more *horse sense* regarding the mating, growing and caring for poultry than any book I ever read. I guarantee that after the book has been read, if it is not satisfactory I will return your money.

Send for 1918 Mating List

I like a chicken, but it must be a **good** one, and when the time comes that I can't have **good** ones, I will get out of the business.

ROBADEL POULTRY FARM, A. C. Robertson, Owner, COS COB, CONN.



AMERICAN POULTRY JOURNAL

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879.

Volume 49

Chicago, Ill., May, 1918

No. 5

PRESENT-DAY POULTRY FARMS

IT WAS my privilege and pleasure a few days ago to spend parts of two days on what is destined to be one of the completest and best poultry farms of rather small acreage in all America. I saw so many really good things here and worthy of emulation just at this time by hundreds of business men all over our broad land, that I believe a short description of what I actually saw, and a brief outline of the possibilities of the adoption and development of this plan on hundreds of locations all over America, will not only interest you, but, prove instructive as well.

For some years A. C. Robertson, Cos Cob, Conn., has been a real fancier of poultry. He has kept in a small way several varieties that have given him much pleasure, and real relaxation from his regular occupation. Last Summer he decided that he wanted a real poultry farm, and he would start it at once and do his bit in raising as much poultry as he could during the present time when our Country needs every bird and egg that can be produced. After a search for the proper location, he bought an ideally located place of seven acres. The land is not level, but, has just enough slope to give splendid drainage, and its frontage of seven hundred feet on the Boston post road will make it a real show place and readily accessible to scores of men who would do well to follow Mr. Robertson's example.

Mr. Robertson is a New York business man. He spends working hours in busy down-town New York in the wholesale chemical business. He loves the country, and goes back to his fine country home in Cos Cob to relax, and get ready for the next day's business. He actually loves fine poultry, and he is putting himself in the position to get the maximum of enjoyment out of his chickens. If his poultry venture proves a money maker, he will be pleased, and perhaps surprised, as this is not his real object in starting "Robadel Farm." He told the writer that if the day came when he broke even on his poultry proposition he would be absolutely satisfied, as the actual fun he would get out of it would be worth considerable to him each year, and, if it did not quite break even, he would still be content. Not many men have been in the position to approach the poultry business in this spirit, and, if they have been able to handle it on this basis, they have not followed Mr. Robertson's train of reasoning to its logical conclusion. Many men who read this article are well able to follow this example, and, if they do so, will get immense personal satisfaction and real pleasure in so doing.

As a business man, Mr. Robertson realized he needed a really experienced poultry man to help him carry out his plan, and, in securing Charles Hubbard, he has made a ten-strike. Mr. Hubbard has been a successful breeder for more than a score of years. A finer, cleaner fellow never lived, and his phenomenal success in producing the Foxhurst Farms Black Orpingtons that proved unbeatable for many years, and in breeding his own fine Buff Orpingtons have stamped him as one of the ablest Orpington breeders in the World. At "Robadel," they will specialize on Buff and White Orpingtons, Black Minorcas, and White Leghorns. In Buffs, they have Mr. Hubbard's entire flock. In White Orpingtons, they have the entire flock and good will for two years of Owen Farms; in Minorcas and Leghorns, they have really fine foundation birds.

With this brief summary of the men, and of the birds, I am now down to the interesting details regarding the development of the plant. Mr. Hubbard will personally care for the birds, and raise the chicks. When necessary, he will be able to call in the splendid all-round man who has been in Mr. Robert-

son's employ for several years, and who takes care of the place in general, the three fine cows, and the garden. This will mean that Mr. Hubbard will have every essential under his watchful eye, and he will personally do the most important things. The idea is to make this a successful one man farm, with a little extra help at times. Their buildings are models of convenience, and comfort for the fowls. The breeding houses have a roomy scratching room in front, with the front open from the plate down to 30 inches above the sill. Muslin curtains are available for use in stormy weather, or extreme cold. The roosting and laying quarters are at the back, and are in a room by themselves, with ample ventilation through a full sized door. This can be closed by a muslin frame if necessary in extreme cold weather. The doors from pen to pen are between the scratching room and the roosting room. The partitions are boarded up 30 inches to prevent drafts and fighting, with 1/2-inch square mesh netting to the ceiling. The yards are roomy, and designed to give ample green supply in the form of rape, or oats sprouting in a trench. The brooder house is very similar and will be a successful building with ample ventilation. Two long buildings containing about ten pens each are devoted to breeding pens, and another to brooding quarters.

All buildings are 15 feet in depth, and with an A roof. The southern pitch being longer than the northern, so the peak comes above the passage way. A splendid building for pullets was nearly completed at the time of my visit. It was 60 feet in length, and divided into two large pens. In the fall pullets will be brought into this fine building, and kept there for the trade. A very fine building containing pens 3 ft. x 4 ft. for male birds will be built during the Summer, and out-door runs will be furnished for these males. The pens in this building will be double tiered, and the males have access to the runs on alternate days. Another fine building that will be built will be on the Boston Post Road. It will contain an office and a show-room, so that visitors can quickly see sales birds, and have their choice. This road runs by the rear of the place, as Mr. Robertson's dwelling faces the salt water on a street that runs parallel to the Post Road. The incubator cellar is a dugout, and backs up to a solid granite ledge that outcrops on a knoll at this point. It is an ideal cellar. The other buildings consist of ample barns for the horses and cows, and sheds for wagons and utensils. All in all, "Robadel Farms" will be the most complete small poultry farm the writer ever saw.

Mr. Robertson has gone on with his building and development in the face of the present high prices for everything, because he feels that it is a duty as well as a pleasure to help all he can at this time. Many of you who are reading this article are in a position to follow his example. Why not add your power to the production in this crisis, and start developing similar poultry projects in your locality? The cost will not be excessive, and like Mr. Robertson, you will be repaid many times over in the sanest kind of enjoyment. The enjoyment of nature, and real country life.

The latchstring of "Robadel Farm" is always out, and you will find a visit to this easily accessible plant a pleasure, and you will take away with you practical ideas that will prove very beneficial. I believe that a few hours spent there will make you so enthusiastic that you will not rest until you are following Mr. Robertson's example and developing your own place along similar lines. Try it, and see for yourself.

MAURICE F. DELANO.

Capons Make Big Profits On High Feed

The Way to Do It. *By George Beuog, Cedar Vale, Kansas.*

IN FEEDING high priced grain to capons you must remember that a capon will make two pounds of meat on the same or less feed than it takes to make one pound on a hen. That is, you can grow a ten-pound capon on the same feed that it would take to produce a five-pound hen or pullet of the same breed, in any of the American or English varieties. At the same time you can expect to get at least twice as much per pound for the capons as the average yearly price of hens. You see the capon is ready to sell along in February or March, a time when all poultry is very scarce and high. No hens comparatively are being sold at this time as they are then producing the most profitable and necessary part of the egg crop. A fact just recognized by the National Food Controller, and a ruling has been made that it is unlawful to sell hens at that time. This is, however, the most profitable and desirable time to sell capons, as they have made a very profitable growth all winter and have just about reached maturity during March and April. Coming onto the market

oats as my *main grain feed* in addition to the green and growing grains. You see one bushel of dry oats, properly sprouted, will make at least *four bushels* of the best nourishing grain feed obtainable.

I am paying at this time 80c a bushel for oats. One bushel dry makes four bushels sprouted, so you see my feed is actually costing me *only 20c* a bushel. In connection with the sprouted oats I am feeding good sound corn once a day. All the birds will eat. But they do not eat a great deal of corn where they have all the sprouted oats they want. The corn is the last feed late of an evening and thrown on the ground until the birds have all they want and go to roost leaving some uneaten.

Plenty of milk is kept before the birds whenever possible and whenever milk is not obtainable a meat scrap is used in its place. Capons and all of our other poultry is fed in this way. The young birds make big quick growth, the females lay well and the capons thrive, making a big profitable growth all the time. As a farmer all my life, I am glad to see the price of grains high—they are none too high, cost to produce considered. Properly handled, there is still a good profit to be made from poultry, feeding them at the high prices.

When we are about ready to market capons, or other poultry, we confine them to a small yard two weeks before we expect to market them and feed corn chop soaked in milk. All that we can induce them to eat up clean. We get best results by feeding at this time at least four times each day. This method plumps out the carcass and gives that rich milk fed flavor so much desired. Fed in that way you can be sure of the highest possible prices for your products and the greatest possible profit. Under the present war conditions and high priced feed, capons have made the biggest profits for those who had them of any time since I have been in the capon business, covering a period of more than fifteen consecutive years. Capons are now (March 5, 1918) bringing the poultry raiser 40c a pound on any of the good markets and as much as 30c a pound on the very poorest local markets in isolated sections. These prices mean that a ten-pound capon will bring from \$3 to \$4 each, depending on the location and market conditions. Remember this ten-pound capon only cost the same to produce as a five or six-pound hen worth less than half as much as the capon.

I want to give you an actual comparative cost of producing capons under war conditions. I live way out in Kansas, 225 miles from the nearest reliable market, near a little country town, where market conditions are about the poorest you can imagine. Eggs at this writing, March 6, 1918, for instance, are being bought on our local market for only 25 cents a dozen. Hens were being bought at only 15 cents a pound when they were really selling. Under these poor conditions I have sold 100 capons at an average of \$5 each or \$500 for the 100 capons. I bought every pound of feed that was fed to these capons. The oats cost an average price of 75 cents a bushel, the corn cost an average price of \$1.80 per bushel, and the corn chop to finish them cost \$3.15 per hundred pounds. The total cost of feed for the hundred capons was only \$75, on the local market the young cockerels could be bought for less than 25 cents each at caponizing time. The total cost of producing the 100 capons was therefore only \$100, leaving a profit of \$400.

I was able to get the high price of \$5 each on account of having raised capons many years, during which time I have developed a private trade that takes more than I can produce at a lump price of so much per capon. On that account my experience might not be a fair one to cite a beginner to. The beginner would likely want to sell his first lot of capons right on the market. A friend of mine in Indiana made his start in capons last season, under war conditions, feeding high priced grain. I just have a letter from this party. He is just an average small chicken raiser and only raised 50 capons to sell. These capons he has just sold on the market for 40c a pound and they averaged eight pounds, each bringing him a



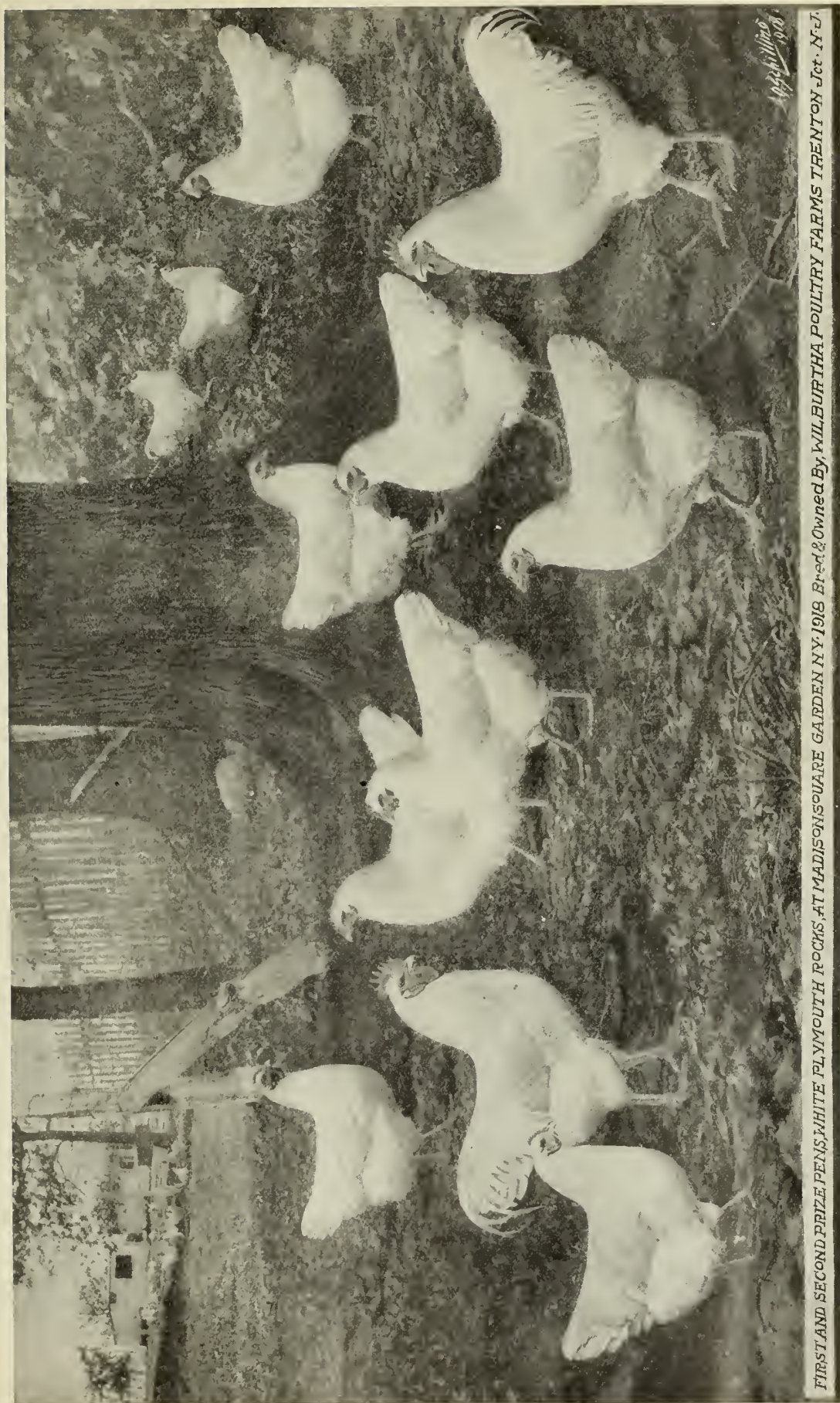
FIRST PRIZE SILVER CAMPINE COCKEREL AT
MADISON SQUARE GARDEN NEW YORK JAN 1918
BRED AND OWNED BY
HOMESTEAD CAMPINE FARM WAYLAND MASS.

at just the proper moment, to sell as fresh poultry, and to compete with the packers' high priced cold storage market.

Feed at 20c a bushel—the best ever.

In feeding capons for profit under the present high priced feed conditions, they should be fed the same as any other poultry. Every breeder that understands the raising of poultry has his own methods and local conditions with which they are familiar. If these methods of feeding produce poultry at a profit, then the same methods applied to capons will yield twice as large profits and at no added cost.

In feeding my own capons and other poultry so as to make a profit under present "war conditions," I have made *sprouted oats* my *main feed*. Now, I do not mean that I used the sprouted oats as a green feed only. I have alfalfa growing in my yards, also both sowed oats and wheat that my capons and other poultry range on at all times. But I use sprouted



Ag. Photo

FIRST AND SECOND PRIZE PENS, WHITE PLYMOUTH ROCKS, AT MADISON SQUARE GARDEN N.Y. 1918 Bred & Owned By, WILBURTHA POULTRY FARMS TRENTON N.J.



gross price of \$3.20 each. Under just average conditions. He writes that they did not keep exact cost of raising them, but feels sure it is less than a dollar each, which leaves him a profit of \$2.20, or \$110 for the fifty capons.

I have before me the 1917 report of a prominent agricultural school where 500 capons were raised and marketed as a comparative test under war conditions against just fat chickens. Exact and complete records being kept. Five hundred capons weighed 3,772 pounds (dressed), sold at 30c per pound, \$1,131.60; cost to produce, \$375. Net profit, \$756.60. The college sums the situation up like this: If the same birds had been sold at the age of four or five months as fat chickens they would have weighed 2,000 pounds, at 25c per pound, worth \$500; cost up to that time, \$200. Profit on chickens, \$300. The difference in profit therefore in favor of the capons is \$456.60; besides this handsome profit the country was sup-

plied with almost a ton of badly needed additional meat at a critical moment.

The National Food Controller found such a shortage of marketable poultry this spring that it was deemed necessary as a war measure to prohibit the sale of hens. This distressing shortage in a time of national calamity was, no doubt, caused by the *short-sighted* policy of selling the young male birds as two-pound broilers instead of caponizing them and making ten-pound capons of them. More than that, the two-pound broilers did not produce any great profit to any one and furnished the minimum of food; had they been made into capons they would have produced the utmost in food and been ready in a time when the entire nation was in need of them so badly. See that these conditions do not apply in your case the coming season. Be patriotic, help win the war, make at least a few capons this year.

National Poultry Conference at Chicago

Important Get-Together Meeting, Over-Late, But "Better Late Than Never."
By Prince T. Woods, M. D.

GOOD should come of the National Poultry Conference, the "get-together" meeting of poultry interests held at Hotel Sherman, Chicago, March 29 and 30. This meeting was successful as an eye-opener, but it was held over-late. Had the repeated warnings published in AMERICAN POULTRY JOURNAL been heeded, we should have had this meeting and similar sentiment *two years ago*, a time when much good could have been accomplished by recognizing prevailing conditions and taking action to prevent just what has occurred. However, hindsight comes easier to most people than foresight. Instead of holding a post-mortem to learn that "the operation was successful, but the patient died," we might, if right action had been taken even 18 months ago, not now be called upon for such strenuous efforts to "save the poultry industry" which we are told will require "from 15 to 25 years of hard work to put it back upon its feet."

Still, "better late than never," this meeting will help. If it does nothing else it will wake up our Agricultural Colleges and Department of Agriculture to the need of practical and efficient work in behalf of the producers of poultry and eggs. We are likely to get something besides talk about alleged "profits" figured by subtracting wholesale feed costs from retail prices of all eggs produced, and hereafter all expenses, overhead charges and selling costs are likely to enter into poultry accounting, as they should.

There were comparatively few real producers present, but there were some. The majority of delegates were poultry instructors from the Agricultural Colleges. Editors, publishers, distributors, manufacturers of poultry equipment and feeds, were well and liberally represented. W. F. Priebe, of the Federal Food Administration, was present and consumed a great deal of time with explanations which were most indefinite, and altho asked for definite "Yes or No" answers, did not give any. Dr. M. E. Pennington, of the Food Research Laboratory, U. S. Bureau of Chemistry, ably assisted by Messrs. Greenlea and McAleer of same department, was also present and very much in evidence at every opportunity. At times it seemed as if this trio claimed the right of ownership and operation of the whole conference. The aforesaid federal representatives, not being producers or delegates, were not limited as to time of addresses or discussion, which was somewhat unfortunate.

Harry M. Lamon and Robert Slocum, poultry husbandmen of Poultry Investigations, Division of Animal Husbandry, U. S. Department of Agriculture, were also present and won the high regard of all producers by their quiet and unobtrusive manner and the definite way in which they obligingly answered all questions put to them. Delegates were impressed with the sincerity and earnest desire to help producers, and the poultry industry as a whole, exhibited by these representatives of Uncle Sam's poultry husbandry department.

There was a large attendance at the conference and the official count stated that 26 of the 48 states were represented; our count gives 30 states represented, as we know positively that one delegate from the East carried credentials authorizing him to represent no less than five important poultry producing states. Both Atlantic and Pacific coast states were well represented, as was the South and Southwest.

Reports from various sections of the country indicated that the flocks of breeders and layers now held are about 50 to 60 percent below normal and that hatching this spring is not much above 25 percent of normal production. High cost of grains and feeds, difficulty in securing adequate supplies, transportation difficulties, interference with and discrimination against producers, were among the causes mentioned as bringing about the poultry shortage. It would appear that those who have continued to carry on, in spite of difficulties, must soon come into better times as a result of the shortage and an increasing demand for both poultry and eggs.

Prof. James E. Rice, who was was of the chief promoters of this national conference, gave an interesting review of the poultry conditions, which was followed by general discussion. Prof. Rice is very active in the work to help, and to secure recognition for poultry producers and the importance of their work as a source of national food supply.

Rule 15 (marked in error 14), banning sale of hens and pullets, was freely discussed and a special committee appointed to bring in a report and resolution on this rule. Men from



Second pen cockerel, Greater Chicago Show, 1918. Owned by E. J. Road, Webster City, Iowa.



various districts expressed their firm conviction that the ruling had been more harmful than beneficial. The committee reported that a large mass of evidence, including over 200 letters from all parts of the country, chiefly the East, but also including Texas, Pacific Coast and Middle West states had been submitted, and in substance, over 90 percent of the evidence pointed "to the fact that Rule 15 is class legislation, unjust and unfair discrimination against the producers of poultry and eggs. That it has tended to destroy the confidence of producers at a critical period. That it is important that some action be taken immediately to restore the confidence of producers generally. That the time is very short in which action may be taken to do this in time to save and stimulate production in this 1918 season. A letter was introduced in the report in which a prominent Rhode Island egg farmer stated in part as follows:

"We yield to no class or section in our patriotism, but do not believe it calls us to produce poultry and eggs at an actual loss. * * * * We are all ready and willing to do our bit, but there is neither reason, justice, patriotism, nor business sense in producing poultry and eggs for those who are not willing to pay a living price for it. * * * * Why should one class of people be compelled to carry on business at an actual loss for the benefit of other classes?"

The following resolution was adopted as a part of this committee's report, with instructions to present same to the Food Administration and to the U. S. Secretary of Agriculture:

"Whereas, Rule 15 (marked in error 14) is class legislation and discrimination against poultry producers, having had the effect in commercial poultry and egg farming sections of this country of discouraging production and destroying confidence of producers; and,

"Whereas, the Food Administration has already announced in the Agricultural press (notably New England Homestead) that it is estimated that less than 5 percent of the poultry shipped thru usual market channels comes from the territory north and east of the Ohio and states north of the Carolinas and Tennessee, and rule has no particular economic effect' in this section, so that it is apparent that this Eastern territory should have been exempted from this rule; and,

"Whereas, California has already been exempted under the rule because of conditions similar to those affecting the East; and

"Whereas, immediate removal of the ban on sale of unproductive hens and pullets would have a good moral effect in restoring confidence and stimulating production and prevent further considerable financial loss to producers.

"BE IT RESOLVED, That this conference petition the Food Administration and U. S. Department of Agriculture, to immediately rescind Rule 15 (marked in error 14) or to so substantially modify same as to exempt from conditions of the rule, the Eastern poultry and egg farming section including the New England States, New York, Pennsylvania, Delaware, New Jersey and Maryland."

The committee on Government regulation of factors affecting costs and profits for the production of poultry products presented and secured adoption of following resolution:

"Whereas, We are all of the one mind that to win this war we must have food.

"Whereas, We believe that if this food is to be produced in sufficient amounts it will be only because the American farmer, together with his family, keep faithfully at work toiling to do their bit, which result will only be accomplished when he feels that his interests are being safeguarded and when his mental attitude is that of encouragement rather than discouragement and fear.

"Whereas, The profits in any business are hazardous in these war times, in spite of which, we feel that the poultryman is more willing to take a chance regarding his profits than to suffer the disturbances of regulation.

"Whereas, The policy and practice of price-fixing, either directly or indirectly, has a decided tendency to frighten the producer and to restrict production by creating a mental condition of fear as to what the future may hold in store.

"Whereas, The poultryman feels that any effort to fix prices which he receives for his product works an injustice, for it is universally agreed that it is physically impossible to compensate this by any legitimate restriction or limitation on the prices he must pay for the numerous products which he is compelled to buy to operate his business.

"THEREFORE, BE IT RESOLVED, That this convention go on record as not favoring a policy of price-fixing as applied to poultry products, but we do approve of regulating the machinery of transportation and distribution, which, we believe, affords relief in supplying his necessary needs and the outlet for his product."

The committee on feeds recommended and secured the prompt adoption of the following:

"We, your Committee on Feeds, recommend: (1) That the Food Administration be asked to request the Director General of Railroads to issue a permanent order placing animal and poultry feeds on a priority list with human foods; both having the same right of shipment when roads are open. (2) That in view of the high price of cotton and scarcity of jute, ultimate consumers be urged to conserve bags in first-class condition and return same to dealers. (3) That the Feeding Stuff

Division of the Food Administration be requested to present to the Grain Corporation the necessity of using off grade wheat, unfit for milling, to the extent of 30 percent instead



S. C. White Leghorn hen, bred and owned by Hillview Farm, Box 27, Lincoln, Mo.

of 10 percent in poultry feeds, as the rule now stands. It is understood that Section 3 above shall apply only in the Northwest section of the United States where such wheat is more available than corn, and includes the states of Idaho, Oregon and Washington."

We do not think that delegates generally understood that this Section 3 provided only for an increased use of feeding grade wheat in the Northwest, as it was the general sentiment expressed that reports indicate considerable quantities of feeding grade wheat, unfit for milling and human use, and that poultrymen wherever such low grade wheat is available should be permitted to use fully 20 percent of it in their poultry rations. The available corn is so poor in quality, has such limited feeding value—only about half that of sound corn—and is so high in price that poultrymen are in great need of a reasonable supply of feed wheat.

The committee on cost of egg production presented a lengthy report in which improved methods of cost accounting were recommended: keeping accurate account of all expenses, overhead charges, etc., including mortality, depreciation of stock, buildings, fences, equipment (or charge for rental), many kinds of labor, increase in amount of taxes, insurance, interest on investment, as well as a higher rate on account of war, the cost of marketing products, careful inventory of all losses, by fire, bad debts, thefts, etc., increased cost to rear stock to renew flock, etc., and other other legitimate expenses of operation. In short, it was recommended that poultrymen keep accurate account of all expense and all income, just as would be done in any other line of business, and it was recommended that instructors seek to bring about more approved methods of modern cost accounting in the various branches of the poultry industry and that a survey be taken to determine production cost so far as practicable. A special committee was appointed to make a careful survey of the different states to secure statistics showing the poultry situation all over the United States. An important committee was appointed to "educate the public as to the food value of poultry and eggs" and to secure desirable publicity thru the newspapers, magazines and other channels. This committee will

co-operate with the Poultry Husbandry division of the U. S. Department of Agriculture.

A special Advisory Board was appointed to organize the "War Emergency Federated Poultry Industry," including the following members, more to be added as needed:

James E. Rice, Ithaca, N. Y.; A. G. Philips, Lafayette, Ind.; G. M. Curtis, Quincy, Ill.; H. R. Lewis, New Brunswick, N. J.; Geo. Cugley, Springfield, O.; W. F. Kirkpatrick, Storrs, Conn.; A. A. Christian; E. E. Richards, Cedar Rapids, Iowa; S. T. Edwards, Chicago, Ill.; H. H. Knapp, Tiro, O.; W. T. Siebels, Chicago, Ill.; Frank B. White, Chicago, Ill.; James Dryden, Corvallis, Ore.; F. W. Kasmeier, College Sta., Texas; A. F. Rolfe, Baton Rouge, La.; B. F. Kaupp, Raleigh, N. C.; Reese V. Hicks, Browns Mills, N. J.; R. C. Lawry, Pacific, Mo.; M. K. Turner, West Nyack, N. Y.; E. B. Thompson, Amenia, N. Y.

The Board decided to maintain a fixed office at Washington, D. C., during the war. Prof. J. E. Rice and E. E. Richards were elected an Executive Committee for the Board and these two are to name a third person, presumably a producer and unincumbered by official position, to be in charge of the Washington office. This third member of the executive had not been named at time of going to press with this report.

Just how this "War Emergency Federated Poultry Industry" is to be financed and the very considerable expense of maintaining a "fixed office" in Washington is to be provided for, we have not yet been informed. It will be noted that actual producers of poultry and eggs are not conspicuously represented on this Advisory Board. The incubator, equipment, and feed manufacturers are well represented, as also are the colleges and publishing interests and the distributors, while breeders and poultry producers are in the minority. This may be accounted for in part, perhaps, by the fact that few producers were present; that the producer, at this time, is scarcely in a position to help finance such an undertaking—he is too busy with his flocks and endeavoring to scrape together sufficient funds to meet his feed bills, now that the spring broods are beginning to "feel their oats" and get down to making a business of eating and growing.



We hope and believe that good will come of this National Poultry Conference: but it will take more than talk and resolutions, it will require much self-sacrificing hard work and some strenuous "going over the top" to get the real results needed to save and strengthen the poultry industry.

How to Produce Capons, and Advantages

The Breed to Cross. Care and Management from Start to Finish. *By Henry D. Smith, Rockland, Mass.*

IN THE raising of capons there are several important things to be observed and thoroly understood, such as the object to be attained, the breeds to be used, the vigor and vitality of the breed, when the chicks should be hatched, how raised, when to perform the operation, how to perform it, and when to market the birds.

The object in caponizing is to produce a larger bird than would have been the case had it not been caponized, a bird especially fed and grown to be sold as a "soft roaster." I am confident that these birds do grow from one to two pounds heavier by being caponized, but there are those who contend that such is not the case. At any rate, these birds are certainly not any lighter for having been caponized and for the sake of argument, or rather to avoid argument, let us allow that they do not grow any larger and on this ground consider whether it is profitable to caponize or not. The prices which I am about to quote may or may not obtain in the different sections of the country, but they are relatively correct.

Let us take a male bird which would weigh as an old cock ten pounds and he is worth, we will say, 12c per pound or \$1.20, but had this bird been caponized and reached the same weight he would sell as a soft roaster for 30c per pound or \$3 per bird. Or, if the same bird was not caponized and sold as a soft roaster, he would have to be sold when weighing from five to six pounds, for after that period he begins to crow and develop other male characteristics, and the older and larger he gets the harder his flesh becomes and consequently lower in price.

Let us take the breed. The Boston market wants a large, full breasted, yellow bird for a soft roaster, and I would say in passing that the grower should raise what his market calls for. The Light Brahma makes the best breed for the Boston market, but at the present time, and for some time past, it has been very difficult to get enough good Brahmas to amount to anything, so we have been raising the next best, which is the Plymouth Rock, either Barred or White. The cross of Light Brahma on the Plymouth Rock hen makes an excellent capon, but this cross does not help the pullets much, if any. Where the market calls for a white meated bird I would suggest that the Orpington or Dorking would either of them fill the bill.

There are several reasons why the Plymouth Rocks are preferred to Brahmas for capon growing. As a rule they lay better, the eggs are more apt to be fertile, they hatch full as well if not better, and they thrive and do well all along the line, so that in the end there are more pounds of meat for the same amount of labor and expense. Altho each bird may not be quite as heavy, you get more birds from a given number in the flock of breeders.

As to the vigor and quality of the stock, it would seem that enough has been written along these lines so that every one interested in growing poultry would be fully aware of the importance of sound healthy breeding stock. Taking all that has been said in regard to the stamina and vitality of breeding stock, it applies equally as well to the raising of capons as to other branches of the poultry industry. It is essential that poultry producers breed only from good strong healthy stock.

It is important to know the best time to hatch chicks which are to be grown for soft roasters. When capons first began to be used in any numbers in this country, the chicks were hatched in the spring with the main object of getting the pullets for layers the following winter. The surplus cockerels would then be caponized and kept over until about a year old, that is the following spring when the prices were up. However, when people began to launch into the soft roaster business extensively, it was found that by hatching from September 1 to January 1, the capons would be just right the following May and June, and that is the time when the price is the highest. The most efficient soft roaster plants hatch some chicks a little earlier than September 1, and some

later than January 1, usually beginning the hatching August 1 and continuing until April 1. By this plan the first ones ready for market, along in March and April, are a little too early for the very highest prices, yet the prices are very near the top, and the same conditions obtain in the case of the late hatched ones, those after January 1. As most plants are



Sire of first cockerel and grand champion at Illinois Centennial Show, Springfield, Ill., January, 1918. Also third cock at Greater Chicago Show, January, 1918. Owned by Fair Oaks Farm, Waukegan, Illinois.

obliged to hatch during February and March for the next season's pullets, they can make the best of the surplus cockerels by caponizing them. Some of these will be ready to sell before the prices have dropped to any great extent, say along in July. There are those who begin to hatch as early as June instead of August 1, claiming that they can raise a larger percentage of the chicks at that season, but by following this plan they are obliged to sell practically all of the birds before the highest prices prevail.

Raising capons is not any different from raising good chickens for any purpose up to the time of the operation. In fact it varies but little thru the whole process, unless it be in giving them all the cracked corn and beef scraps they can possibly eat, with enough other grains or mash for the sake of variety, and during the last month or two give whole corn instead of cracked. Of course every one knows that the best chickens are those which have been kept coming right along all the time with no setback of any kind. Every poultryman knows there are plenty of chances for setbacks in growing chicks in any quantity. There are numerous ways in which setbacks to chicks may get the best of the poultryman, but if he attends strictly to business and keeps his eyes open he should be able to avoid them all. It may be well to consider a few of the most frequent causes of trouble along this line.

Eggs for incubation should not be kept over ten days and

must not be allowed to become chilled or be kept in too warm a temperature—from 40 to 50 degrees is all right. The fresher the eggs are the better and they should always be



UNRETOUCHED
PHOTOGRAPH BY
A. O. SCHILLING, R. F. J.

First prize S. C. White Leghorn pullet at St. Louis, January, 1918.
Owned by Eugene Smith, 317 Galena Boulevard, Aurora, Ill.

from perfectly healthy stock. The next step is to see that they are properly incubated, for much damage can be done thru faulty incubation. With the center of the thermometer two inches from the bottom of the egg tray of the incubator, aim to keep the temperature at 103 degrees, not over that for the first week. During the second week if the eggs are reasonably fertile, the temperature will go up to the 103 mark without changing the regulator, but do not allow it to go much above that until the eggs are about to hatch, and then if it goes of its own accord, let it go but little if any above 104 degrees. If there are a large number of live chicks in the shell and it looks like a large hatch, be very careful that the temperature does not get too high, also that there is enough fresh air for the chicks. It may be necessary to set the door open, just a little crack, and yet it will not do to chill the chicks. In the machines which have nursery drawers, when the hatch is well along and chicks begin to work toward the glass door, the door should be opened and the chicks near the front, especially the dried ones, dropped down, leaving the hole open for the rest to drop in as they come that way. This should be accomplished as speedily as possible and the door closed and not opened again until the hatch is over, which should not be later than the morning of the twenty-second day. Unhatched eggs and shells should then be removed and all the chicks put into the lower drawers. If it has been a good hatch the regulator need not be changed, for under these new conditions the temperature will fall a little and the chicks having been placed in the drawers where the temperature will be about 95 or 96 degrees the conditions are about right for them.

The chicks should remain in the incubator until the morning of the twenty-third day when they should be well dried off, strong and hungry and ready for the brooder. The cooling and airing of eggs is not necessary in any of the hot air machines, providing they do not get too hot and the air in the incubator room is good fresh air. Having gone so far, we now come to the brooding. The temperature under the hover, right where you are going to put the chicks, should be 90 degrees. After the chicks have been placed in the brooder, the best plan is to judge the proper temperature by the action

of the chicks themselves. They will make it known by their looks and actions when they are either too hot or too cold. When nestled down for the night they should be just touching each other, forming a regular carpet or rug and not touching into a corner or spread all over or panting. Be very careful about drafts, even tho the weather may be getting warm.

There are about as many methods of feeding and kinds of feed to give chicks as there are people feeding them, but I am of the firm belief that almost any feed within reason and with considerable variety in the mixture will do, but—and right here is a good point—feed them in such a manner that the chicks will get good and hungry once every day while they are housed in the brooder. A good plan is to feed them liberally at night so there is a little left to pick up in the morning before the attendant gets there to do the feeding. Use good judgment in the morning and feed so the chicks will have it well cleaned up by noon, but if at this time they still have something left over from the morning feed, do not give them anything more then, for they are full with just so much left over. If, however, they are all cleaned up and acting as tho hungry, give them just a little, but not enough to prevent them working about and calling with some zest for their supper when that time arrives.

When the chicks are well feathered out, they should be removed to the colony houses and supplied with a self feeder filled with cracked corn and good beef scraps kept before them at all times. They should also be fed wheat and oats for the sake of variety.

The time for the caponizing operation on a Plymouth Rock is when the chick weighs from 1½ to 2½ pounds, but a Brahma can be successfully caponized up to the time it reaches 4 pounds. In any case, do not wait until they begin to crow or the combs grow large and red, or they show other characteristics of male birds.



FIRST PRIZE S C-BUFF ORPINGTON COCKEREL
NEW YORK STATE FAIR SEPTEMBER 1917
BRED AND OWNED BY
OWEN FARMS VINEYARD HAVEN MASS.

In performing the operation, first, fast the birds for some 36 hours. That is, after they have had their supper, take all their feed away from them when shutting them up for the night. They may be allowed water. Keep the birds in this

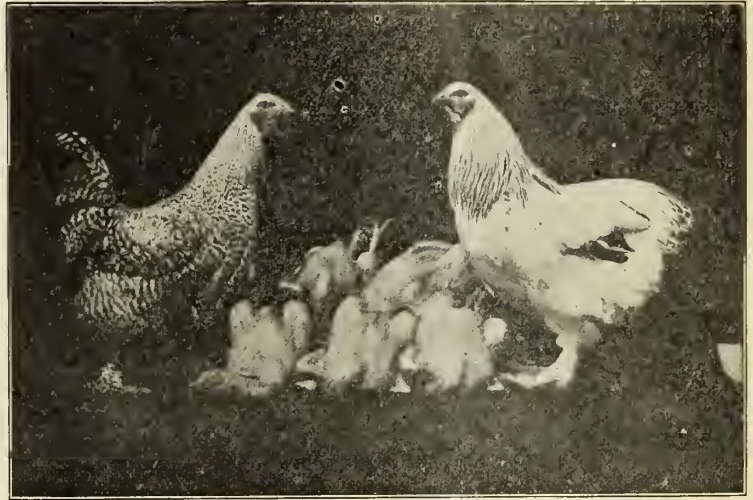
way all thru the next day and until the following morning, when they are ready for the operation.

The operation of caponizing is very simple if one has the proper tools, table, etc. After caponizing a few dozen birds, one can caponize a bird per minute and keep it up, and it can be done in thirty seconds, which shows that it is not a difficult operation. Some use a barrel for an operating table, but this is not as good as a board about ten inches wide by twenty inches long. Fasten the board at the center on a piece of 2x3 inch joist cut off slanting, so that with one end of the board toward the operator, the left hand side will be about five inches higher than the right hand side. With a wire and a hook to hold the wings, which are held together up over the back, and a weight about like one-half of a brick fastened to a cord two feet long with a small hook on the other end so as to take a turn around both legs, you will then have the bird lying on his left side, with the head from you, the wings fastened by the hook and the legs drawn out straight by means of the weight. The tools are a knife, a wire 5 inches long with a sharp hook on one end, a spreader and the forceps, a set known as the "Farmer Miles." There is also a set on the market with a few small improvements.

To begin to operate: With the fore finger of the left hand, press and pull the skin back until the finger nail slips over the last rib just forward of the leg. At the same time be pulling off a few feathers with right hand just over the last two ribs, so they will not be in the way for a good clean cut. Now, holding the skin tight as described above take the knife in the right hand and cut, preferably all in one cut or stroke of the knife, the whole length between the two last ribs, from where they are joined together at the top down to where they are joined at the bottom, but do not cut any bone off. This incision should be from one-fourth to three-eighth of an inch deep. Then with the handles of the spreader to the left insert them in the cut, catching the hooks on to each rib so as to spread them apart just a little but not enough to break the ribs. If the incision has been properly made a very thin membrane, called the peritoneum, will be in sight, and with the wire hook begin at the top of the incision and tear a hole the full length, being careful not to rupture the intestines which are just on the inside of the peritoneum. To remove the testicles take the forceps in the right hand with the thumb and finger inserted in the rings the same as in using a pair of scissors, and with the solid flat plate down, force the intestines down when the upper testicle will be in plain sight. But be sure and take the lower testicle first, which is not in sight as a usual thing, but can readily be found as it lies just the other side of the back bone and directly opposite to the top one. Push the forceps in beyond the lower testicle, which is not over one-half inch from the top one, open the forceps enough to take in the testicle and with an upward pressure sort of scrape the back bone in such a way as to drag the testicle out in sight. When it slips off of the wire part of the forceps, catch it on the lower solid side and then shut the forceps together taking in the testicle. Now pull back a little so as to be sure that you have caught no other organ, and with a twisting motion to bring the thin membrane that encloses the testicle into a string instead of a bag, and at the same time pulling it out, keeping a sufficient pressure on the forceps to maintain the hold on the testicle. Now go back after the top one, which can easily be gotten hold of, twist it as before and pull it out. In taking hold of the testicles be very careful not to get hold of a main artery which lies right between the two testicles, for if the artery is ruptured there is no hope for the chick. Pick it at once and treat yourself to a broiler.

If the first incision should not be high enough and turning the knife you cut up toward the back bone, be careful not to hold the knife in such a way that the point cuts away up ahead, for in this way you may cut another organ that will cause a lot of blood to flow and bother you, tho it may not prove fatal to the bird. Hold the edge of the knife straight up and down. After removing the spreaders and releasing the

bird, the object in pulling the skin away back before making the incision will be seen, for when the bird takes his natural position, the hole thru the skin will go forward so that the hole thru the flesh will be covered. Birds which have been caponized will remain rather inactive for a few days and some of them may puff up with wind under the skin, but this will pass off as a rule in a day or so. If, however, any seem greatly



Light Brahma and Barred Rock capons, alive and dressed.

distressed, make a little slit low down on the leg, so that if there is any pus in it, it will run out and the wind may all be pressed out very easily.

Last but not least, comes the marketing, but it is by far the pleasantest part of the whole undertaking, especially when the money comes in. The time to sell a soft roaster, either a capon or a pullet, is when it is "ripe," just the same as it is with a strawberry or a tomato. There are several ways to determine just when a roaster is ripe. As they approach this stage the spurs will begin to swell and grow larger, but for a time will remain soft and yellow. When the spurs begin to get white, horny and hard, the capon is about ripe and until one gets used to handling these birds, the best way is to weigh the bird and make a record of it and in just a week weigh him again and see what he is doing. A good thrifty capon will gain from one-half to three-fourths of a pound per week at this stage. Continue to do this every week as long as the bird gains, but the time will come when it will be found that he does not weigh any more than at the last weighing and perhaps not quite as much. You will then have an example of an over-ripe capon. If the price is going up, nothing has been lost during that week, but if it is going down and he has lost a little weight too, while not a great deal may be lost on one bird, yet, if one has hundreds of them in the same condition, it means considerable unnecessary loss. Some judge a ripe capon by the shedding of the feathers around the neck and some by the appearance of the flesh, which may be learned by examining the bird each time he is weighed.

Ralph Waldo Emerson said: "The basis of political economy is non-interference. The only safe rule is found in the self-adjusting meter of demand and supply. Do not legislate. Meddle, and you snap the sinews with your sumptuary laws. Give no bounties; make equal laws; secure life and property, and you need not give alms. * * * * The level of the sea is not more surely kept, than is the equilibrium of value in society, by the demand and supply; and artifice or legislation punishes itself, by reactions, gluts, and bankruptcies. * * * * Whoever knows what happens in the getting and spending of a loaf of bread and a pint of beer; that no wishing will change the rigorous limits of pints and penny loaves; that, for all that is consumed, so much less remains in the basket and pot; but what is gone out of these is not wasted, but well spent, if it nourish his body, and enable him to finish his task;—knows all of political economy that the budgets of empires can teach him."

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

SUBSCRIPTION PRICES

United States, Cuba, Mexico and United States Possessions	1 Year 12 issues	3 Years 36 issues
(except Chicago).....	\$0.60	\$1.00
Canada .....	.85	1.57
Foreign	1.10	2.50
Chicago .....	.75	1.50

Chicago, Canadian and Foreign subscriptions require additional postage and therefore the slight difference in prices.

TRIAL SUBSCRIPTIONS — In order to acquaint prospective subscribers with American Poultry Journal, we will mail one copy a month for six consecutive months to any point in the United States, its possessions or to Cuba or Mexico for 25c. The trial subscription offer (6 months for 25c) is for new subscribers only and not subject to renewal for a period of less than one or three years.

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TRADE MARK REGISTERED,
No. 74,059.

Issued the first of each month.

Published by

American Poultry Journal Publishing Co.

JAS. W. BELL, President,
523 Plymouth Court, Chicago, Ill.

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Advertising Representative,
E. G. ALDRICH.

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59,000 American Poultry Journals for
May, 1918.

State of Illinois, County of Cook, ss.:

Chas. S. Peterson, secretary of the Regan Printing House, Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 59,000 copies of the May, 1918, issue.

CHAS. S. PETERSON.

Subscribed and sworn to before me this
20th day of April, 1918.

(SEAL)

ALICE A. SHEHAN

Notary Public.

Everybody Must Serve

One good thing which may come out of this war, which seems almost certain to come, is universal service in its broadest sense—not necessarily the military sense—a development of community co-operation and national co-operation, which hitherto has been missing in a world where it was "everybody for himself and devil take the hindmost." The Chicago Conference was a beginning in the poultry world. New England is now working earnestly to build up a co-operative poultry federation which seems likely to succeed where other efforts in the past have met with little support. Co-operation seems to be the watchword of the times. Everywhere we are urged to join in team work for the good of all. Community co-operation is urged in the production of foods, in all community interests after the manner of old times, when the country was young and each community group of families was like one big household, where each and every member co-operated to serve the best interests of all.

We are all dependent each upon the other. The sooner we find it out and work "all for one and one for all" the better it will be for all of us. Every business, every interest is interwoven and depends upon the other. Damage one link and you weaken the whole chain. As we pointed out in our January editorial "Everybody Must Work," there is no longer any room for the idlers and parasites. Everybody must work and everybody must serve. The quicker we wake up to this fact, the quicker will we win the war, and the quicker we will bring about better business and better living for each and all of us.

In the January editorial we said: "When everybody is put to work at whatever task he or she



proves most useful, when the good of the community becomes greater than the benefit of the individual, when we learn to know the value of justice, peace, and fellowship among all peoples, when creative and productive labor is compensated at its true value, then we shall enter upon an era of peace and good will that will be as near freedom and democracy as we are likely to get in this world."

Hearst's Magazine in its leading editorial for April says: "Neither human being nor animal which ceases to serve lasts. The world has been ignoring this eternal truth. Not only rulers, but gigantic corporations, wealthy individuals and influential politicians had come to be solely concerned in serving their own ends, in having people serve them, in using the people instead of striving to be useful to the people.

"With a jolt they have been taught the folly of their course. The principle of serving is again being enthroned.

"Kings and corporations and railroads and multi-millionaires and politicians are learning that their very existence depends upon fulfilling the eternal obligation to Serve.

"If a man will not work, neither shall he eat. That decree expresses a truth as fundamental as the universe itself.

"To work means to serve, to perform some useful service, to contribute some effort to turning the wheels of the world."

Union and service—in one word: Co-operation—will bring success and prosperity to all of us. Without it we may easily be divided into two groups, the excessively rich and the very poor. The Good Book and history teach us that a people with one language, united thru universal co-operation, are one people and may not be restrained from whatever they have undertaken to do.

We need co-operation—universal team work—and we need it NOW.

Lifting the Hen Embargo

Evidently those in authority are a little worried over what may happen when the embargo on sell-

ing hens and pullets is lifted May 1. Here are two of the more recently press bulletins issued by the Office of information, U. S. Dept. of Agriculture:

"SELL CHICKENS GRADUALLY."

"Don't glut the market with chickens, live or dressed, soon after May first when the Federal "closed season" on hens ends. This advice to farmers is given by the United States Department of Agriculture.

"Too many fowls on the market may result in food losses. Poultry stock should be sold gradually. Farmers will have better markets if they avoid glutting them."

"HENS SHOULD NOT BE HURRIED TO MARKET."

"A rush of too many fowls to market as soon as the restriction against selling laying hens is removed may result in food losses. Think twice before selling a hen that is still laying. Green food is becoming more plentiful and the demand for eggs continues. Universal marketing of fowls may react on prices as well as cause spoilage of dressed poultry."

All of which, above information, is doubtless true and good advice; tho a good deal like "locking the stable door after the horse is stolen." It is practically an acknowledgment that the embargo on sale of hens was a mistake.

We do not anticipate that farmers or poultry keepers will rush to unload any good laying hens or profitable breeding stock. There will in all probability be heavy selling of unprofitable flocks and of drones which have been held and carried at a loss. However most of the mischief done by Rule 15 was already done some time before these bulletins were issued. The harm that has been done cannot be undone this season.

So far as the rush of fowls to market is concerned, we suspect that that is already out of the producers' control and that country buyers had contracted for flocks of fowls some weeks ago. If rushing shipments gluts the market and smashes prices, the small independent shippers are the ones most likely to be injured by the break in the market. The producer, who has not sold and who is in a hurry to sell, may lose, but the chances are that he will hold out and wait for the reaction certain to follow heavy selling and price cutting. After the flurry is over, poultry prices will have to go up again.

The greatest damage done by the poultry embargo has been the cutting down of hatching and rearing operations. Probably not over 25 percent of normal number of chicks have been hatched in some of our best poultry producing sections. This reduction of broods of early chicks hatched cannot be made up this year. Hatches after May 1 are only desirable and satisfactory in a very small part of the country.

Ice-Packed Poultry

A public hearing was held in the Bureau of Chemistry, Washington, D. C., on April 2, to determine whether the shipment of poultry packed with ice, which is alleged to absorb water and lose food value, constitutes a violation of the Federal Food and Drugs Act.

Altho the notice was issued but a short time prior to the hearing there was a good attendance of shippers and receivers of poultry, with counsel, and also representatives of producers.

The dry cooling and dry shipping of dressed poultry is one of the pet hobbies of Dr. M. E. Pennington, of the Bureau of Chemistry. This department also has plans or blue-prints of desirable chilling

rooms for the purpose of dry chilling. While we agree that it would be a very nice thing if every farmer and poultryman could have a private chilling and refrigerating plant, we do not believe it is practical or good common sense to advocate such measures at this time.

From the plans we have seen such a chilling room might, in pre-war times, cost around \$1,600 to build, and the estimated cost of refrigeration is around 65 cents per day with ice figured at \$3 a ton. To build such a chilling room today, would probably cost close to \$3,000. To operate it, in our section of the country, would cost close to \$2 per day with ice at present prices right here at the lake. The use of ammonia refrigeration is out of the question in war time. We do not see how the poultryman or farmer could afford to invest in and maintain such a chilling plant in these times.

Also, as we have frequently pointed out in this magazine, we consider that the objections to ice-water chilled, ice-packed poultry are more imaginary than real, if the chilling and packing is properly done. Certainly we have been chilling dressed poultry in ice-water for a good many years, we have no fault to find with it when the work is properly done, and we have yet to learn of any harmful effects. Some of the finest quality poultry which goes to our most fastidious markets is ice-water chilled and ice packed, and it has always commanded a premium above top prices and been eagerly sought after. We do not believe that war time is a good time in which to introduce pet theories for reforming good and well established business methods.

Those in attendance at the hearing were unanimous in urging that no action be taken to prevent ice-packed shipments of poultry. F. S. Snyder, of Batchelder & Snyder Co., Boston, now a member of the food administration, was of the opinion that "legislation such as contemplated by the Bureau of Chemistry would without doubt reflect to the benefit of certain classes and at the same time would be detrimental in a large way to the average producer and the average consumer." Alton E. Briggs, of Boston Produce Exchange, explained that New England prefers poultry shipped under ice. The Chicago Poultry Board passed and presented very vigorous resolutions asking that there be no new rulings and regulations regarding the ice-cooling or ice-packing of poultry for interstate shipment until after the war. A special delegation from Philadelphia put up a very vigorous protest against any interference with the interstate shipment of ice-packed poultry.

C. E. Hatfield, chairman of ice-packed poultry committee, of National Poultry, Butter and Egg Association, in his report in *The National Bulletin* says:

"The many disadvantages resulting from a discontinuance of shipping ice-packed poultry in interstate commerce was very, very vigorously protested by every man who arose to the floor. I am pleased to note that there was not a single instance where any encouragement was offered to the Department that it should not be allowed to continue.

"The principal argument presented as to why we should be allowed to continue shipments of ice-packed poultry in interstate commerce was first of all, that it would disrupt and disorganize this particular branch of the entire industry; that it would necessarily mean that many shippers in the country and not only shippers, but dealers in the cities, wholesalers and jobbers would be forced to discontinue business, due to the fact that the shippers are not prepared for artificial refrigeration or pre-cooling plants; that it was not possible in many cases for even those who were financially able to equip, and

"Hillview" White Leghorns

EGGS — NOW HALF PRICE from \$5.00, \$10.00 and \$15.00 MATINGS — EGGS

SWEEPSTAKES WINNERS at the National All-Leghorn Show, Columbus, O., 1917; winning 3 firsts, 3 seconds, 1 third, 2 fourths and 1 fifth ribbons, the only silver cup offered, and all specials offered. Furnish annually BLUE-RIBBON winners for Chicago, St. Louis, Kansas City, Milwaukee, Canadian and other National Exhibitions. My Leghorns have been among the LEADERS FOUR YEARS IN SUCCESSION at the Missouri Laying Contest, and are leading all Leghorns in the present Missouri Laying Contest. My Matings for 1918 are better than ever, and will produce winners and great layers for you. Write at once and get a copy of my big 24-page catalog. UTILITY BRED-TO-LAY CHICKS 19 cents each.

HILLVIEW FARM - BOX 27 - LINCOLN, MISSOURI

Hatching Eggs

from the finest matings in America. Write for our prices and particulars.

"Homestead" The Vigorous Strain Campines

Dominate in the World of Campines

Following are some of the winnings at the world's greatest shows this season:

At the last Madison Square Garden Show

Dec. 28 to Jan 1, we won: 1st 2d, 3d cockerel; 1st, 2d, 3d pullet; 1st, 3d, 4th pen; 3d, 4th, 5th cock; 2d, 3d hen; 1st Display which gave us the Silver Challenge Cup offered by the American Campine Club, winning it outright, having won twice in succession at the Club Show. This cup has been up for five years.

At the Boston Show

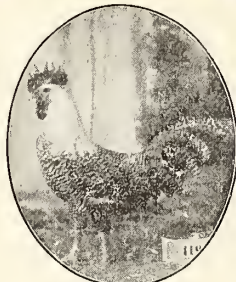
Jan. 14-18, 1918, we won: 1st, 2d cock; 1st, 2d hen; 1st, 2d, 3d, 4th cockerel; 1st, 2d, 3d, 4th pullet; 1st, 2d pen; First Display.

At the New York State Fair

Sept. 10-15, 1917, we won: 1st, 2d cock; 1st, 4th hen, 2d, 3d, 4th cockerel; 1st, 2d, 3d pullet; 1st, 2d pen; 1st display. How's that!

Send for our price list today and make your selections of hatching eggs from these grand birds. Book your order early and avoid disappointment.

HOMESTEAD CAMPINE FARM
BOX A, WAYLAND, MASS.



First Cock,
Boston, 1918

Our beautifully illustrated booklet gives a very interesting history of this remarkable breed. Price fifteen cents—send today.



First Hen,
Boston, 1918

it was also presented that even tho it was possible, that right at this time the demand would be too great all at once; that it would be impossible to get materials for the construction of the most moderate plant. The materials most particularly mentioned that would be hard to obtain were ammonia and cork board.

"That dealers and jobbers in the cities presented the argument that even tho the stock was pre-cooled and reached them as pre-cooled, that it would mean heavier losses and a curtailment of trade, if they could not use ice in shipping to their out of town trade. They also advised that it would be almost impossible for the trade to whom they sold to take care of it, if at all, if they were not allowed to pack the poultry down in ice to hold during the period of distribution or use, as the case may be. ** *

"We feel as tho on returning from the conference that ice-packed poultry shippers are in no immediate danger of having this privilege taken away from them. We were assured that no definite action would be taken within the next year or two, and it is hoped by that time there will be much improvement and all prejudice removed, so that it will eventually be dropped and we will be allowed to continue shipments of ice-packed poultry."

That would seem to dispose of the wet-chilled, ice-packed poultry question for the present at least. We understand that most of the opposition to ice-packed poultry developed thru the work of one woman, who has very positive opinions on how the poultry business should be conducted, and who, it is understood, was also responsible for the hen embargo Rule 15. Let us hope that she will discontinue her activities in this direction, at least for the duration of the war. It would seem the part of wisdom to disturb as little as possible the established methods of food production and distribution.

Grow More to Feed Poultry.

EVERY poultryman will be wise to plant crops and grow more coarse grains and winter-keeping vegetables for his poultry. If you cannot grow what you need, make a careful estimate of what you will need and contract with some farmer to grow it for you.

While an abundance of grain is reported in Australia, India and South America, there are at present no ships to bring this grain to us. The indications are that all available ships will be needed to transport troops and munitions to the overseas battlefield. Grain has been rotting at the docks in various parts of the world south of the equator, so we are told, but there is at present no way to get it and may not be any way to secure it for a long time. It is probable that we in America will have to depend largely upon our own resources and help feed half the world besides.

Altho newspaper talk still continues about the "1917 bumper corn crop," the fact remains that this crop was very

Cut Your Feed Bill

WITH

MACMORE Brand

Wild Seed Squab Feed

BABY CHICKS

AND

PIGEONS

thrive on it. It is Nature's food, made up of wild grains—the seeds of weeds and native plants same as the poultry picks up on range, and is highly relished by penned fowl.

Send \$1.00 for sample bag of 25 pounds and circular telling of results obtained from it in years of experience

MACMORE FARM SEEDS CO.

Dept. A, Harris Trust Bldg., CHICAGO, ILL.



Price List	
F. O. B. Chicago	
25 lbs.	\$1.00
100 lbs.	3.00
	Per 100
500 lbs.	2.75
1000 lbs.	2.65
2000 lbs.	2.50

Great Reduction Sale

ROSE COMB

ALMY'S REDS

SINGLE COMB

Eggs from all prize matings half price after June 1st. Selected pens at two-thirds price.

RED FEATHER FARM, F. W. C. ALMY, Prop.

BOX 100, TIV. 4 CORS., RHODE ISLAND



much overestimated and a very large part of the corn was so soft that the spoilage has been very heavy.

Our statistical figures on crop estimates are not very reliable. No one knows just what the actual condition is throughout the country, and we very much need a carefully conducted farm census, to show how many cattle, milch cows, sheep, hogs, poultry, the quantity of grains on hand, and acreage in grain of various sorts, we really have to count on. Just now everybody is guessing. No one really knows, but the probability is that our available supply is less than we think it is. For example, the estimated acreage sown to winter wheat in New York state last fall, according to bureau statistics, was 512,000 acres. A carefully conducted state census recently completed shows only about 360,000 acres in winter wheat. If estimates for other states prove to be no more accurate than for New York, the actual shortage may prove to be considerable. Guesses may be all very well in times of peace, but in war we need something more tangible. We should immediately take an inventory of our resources by making a careful state by state census.

Meanwhile it is up to the poultryman to grow corn, oats, barley and buckwheat if he can. Also to produce a good supply of potatoes, cabbage, beets, mangels, carrots, squash and pumpkins, to make sure of a liberal supply for the family and the family flock next winter. A few rows of beans will furnish ample supply for summer use and an abundance for winter. Only a small plot of ground need be given to peas and summer "garden sass." It will be wise to concentrate on growing supplies needed for next winter. Grow crops that will keep.

Work for the Month.

MAY will be a busy month. The broods of chicks must be kept growing, must be well fed, and should have the advantage of a good grass run.

A sharp watch will have to be kept to prevent ill effects from lice and mites. These pests will develop rapidly from now on. Keep brooders and brood coops clean. Use good whitewash freely. Mother hens may be treated with a mixture of blue mercurial ointment one-third with petrolatum two-thirds, a piece about the size of a pea applied to the skin around the vent and bare places under wings. Apply lightly, do not rub in. A good lice and mite killing spray for use in coops, can be made by dissolving in kerosene all it will take up of crude naphthalene flakes—about one pound to the gallon.

Litter material should be changed frequently, whenever damp or soiled. Be careful not to feed any spoiled grain or sour food. Supply plenty of good clean drinking water in clean fountains. Provide shade and shelter for the chickens and fowls. If a grass run cannot be provided, supply an abundance of fresh greens—sprouted oats, fresh daily, will serve.

Do not neglect the garden. Planting will have to begin in earnest this month. Keep everlastingly at it. The more

wholesome food, like poultry, eggs, and vegetables, you grow at home the better it will be for your family and for all of us.

There should not be many idle hours in May. When you find them try fishing, where the law permits. Fresh caught fish, not available for family use, will be relished by the chicks and fowls. Simply scald, or plunge fish into boiling water until flesh and bones separate, for poultry feeding. Fish is one of the finest growing foods for chickens.

Make the most of May.

Hen Embargo Lifted April 20.

The daily newspapers of Saturday, April 13, carried the following news item. Comment seems superfluous:

Washington, April 12.—Hens are to enjoy immunity from the chopping block only a week longer, as the food administrator announced today that restrictions against their sale would be lifted on April 20.

It is estimated that at least 3,250,000 hens capable of producing eggs have been saved in New York, Chicago and Boston markets alone since the regulation was put in force on Feb. 23. Weather conditions brought about an earlier hatching and laying period than anticipated, enabling the ban to be raised 10 days earlier than the time set.

**FOR SALE
New Modern Poultry Farm**

2½ acres, one-half mile from live progressive town of 1,800, fifty miles west of Chicago on hard gravel road. All buildings built new last year. Residence has seven large pleasant rooms and bath room. Finished in oak, with oak floors, fire place, furnace heat, electric lights, etc., hard and soft water in house. Two large porches. Out-buildings consist of feed storage houses, laying houses with capacity of over 600 winter layers; also numerous brooder houses, colony houses, breeding houses and excellent range. Soil is rich black and level as a floor; very adaptable for fruit and garden produce, with ready market. Place fenced complete with six foot woven wire poultry fence. With this place goes an opportunity to raise thorough poultry for one of the foremost poultry breeders in the United States on large scale at much better than market price for both poultry and eggs. Reason for selling owner going to Arizona. Bargain price \$6,000 for quick sale. Part cash, balance may be assumed as mortgage. For particulars address owner,

Hugh G. Palmer Yorkville, Illinois

Smith's White Leghorns

6 firsts St. Louis, 1918—3 firsts Chicago Coliseum, 1917—4 firsts Greater Chicago, 1917. Catalog free. Eugene C. Smith, 317 Galena Blvd., Aurora, Ill.

Reduced Egg Prices

Take Effect in May! Send for Circular!

Myers' Barred Plymouth Rocks

Lady Beautiful Strain

Consistent winners for years at the big shows

Single Birds, Trios or Breeding Pens

Eggs for Hatching

No Baby Chicks

Write for catalog and mating list

C. N. Myers Box A Hanover, Pa.



Dr. Globe Says:
"Make every day count—hatch all you possibly can."

Blue Ribbon Little Chick Feed
will make them grow fast and strong.

Feed More Mash Blue Ribbon Laying Mash

to your layers. Makes more eggs and reduces feeding costs. 20-22 per cent protein. Costs less than scratch feed. Contains more protein. Makes more eggs.

Send for our Book "Poultry Feeding Illustrated," and Samples of our Feeds.

For sale by all dealers everywhere.

GLOBE ELEVATOR COMPANY 25 Seneca St. BUFFALO, N. Y.

BIG PROFITS in Poultry

If You Know How. Get This FREE BOOK and Learn How

We have facts and figures on poultry culture that we want to put before every man and woman interested in raising chickens. Whether you are an old hand at the business or just beginning—whether you have been successful or not—whether you have an extensive poultry plant or are raising a few in a city back yard we have money making information for you. We want to show you how you can succeed and make a splendid income from poultry. We are the largest and best equipped exclusive poultry school in the world and we have in our course of 48 complete lessons made it possible for you to learn the poultry business in a scientific yet practical way.

2,431 EGGS FROM 10 HENS IN A YEAR.

We tell you how we get such great results. We teach you everything you should know about poultry. How to save on feed; how to get big egg yields; how to prevent death in the shell; how to grow the young stock; build best houses; prevent disease, loss and failure. Our methods lead you to success in the show room, on city lot, on commercial or general farm. Send today for our FREE BOOK.

American School of Poultry Husbandry, Box 206 Leavenworth, Kan.

3 years—36 issues—of American Poultry Journal for \$1

Dr. Woods' Notes and Comment

THE UNITED STATES.

"That this nation, under God, shall have a new birth of freedom, and that government of the people, by the people, for the people, shall not perish from the earth."

—Abraham Lincoln.

* * *

It is a particularly good time now to remember the words of the immortal Lincoln. The creed deep seated in the heart and mind of every real American is: "I believe in the United States of America as a government of the people, by the people, for the people; whose just powers are derived from the consent of the governed."

In times of stress like these it behooves every citizen to jealously watch and guard "the government of the people, by the people, for the people" and we are bound to feel concern when some "inspired" legislator slips a rider on to bill pending in Congress which, among other things, punishes with a \$10,000 fine or twenty years in jail, criticism of Federal or State authorities. As a writer in April article said: "If ever elective and appointive office holders come to be regarded as not open to criticism, God help the Republic!" We

do not know what was done with this proposed "lese-majesty" rider, but cannot believe that it would be allowed to pass.

* * *

At this writing, April 12, we have word from Prof. J. E. Rice and Prof. F. H. Stoneburn that both are confident that Rule 15, the ban on selling hens, will be lifted before it expires May 1, through self-limitation. We hope that it will be rescinded for the sake of the good moral effect; but we are not over-sanguine that it will be done, because rescinding the rule would be a tacit admission that a mistake had been made, and few people are fond of acknowledging mistakes.

* * *

May hatched chickens are good chickens—particularly in the Mediterranean varieties. Do not hatch more than you can properly feed and rear. Grain and feed is likely to be scarce in many sections before a new supply is harvested. Use it to the best advantage and do not neglect the early hatched birds, keep them well fed and growing steadily without any set backs. A few chickens

S. C. White Leghorns

600 Yearlings and Pullets for sale. \$15.00 per dozen in lots of 25 or more. We are now booking orders for hatching eggs and day old chicks. Place your orders early.

Meadow Lark Farm - - - Box 3, Route 3, Elgin, Illinois

REGALS FOR PROFIT



First Prize Cook at Madison Square Garden, December, 1916

Regal White Wyandottes have stood the test. Whether you wish to go in for exhibition or for utility, the Regals will fill every requirement. This is the secret of their wonderful popularity. They are persistent layers, make rapid growth and are invincible in the show-room. Of all months in the year, May is the best month to hatch out the winners. The weather is warm, vegetation springing up, fertility running high and the chicks make the rapid growth so necessary to produce champions.

I Guarantee a Good Hatch

Mrs. Eli Fowler, of Rochelle, Ill., writes as follows: "From the setting of eggs purchased from you last season I raised the First Prize and Color Special Cockerel at the Greater Chicago Show, 1918. He is a beautiful bird and the judge did not hesitate long in giving him the blue ribbon."

Eggs from Exhibition Matings, \$5 per 15; \$15 per 50; \$27 per 100.

Special Exhibition Matings, \$10 per 15; \$18 per 30; \$25 per 45; \$50 per 100.

Dorcas Trapped Matings, \$5 per 15; \$15 per 50; \$27 per 100.

Utility Flock Matings, \$12 per 100.

Free—Send for 20-page Catalog and Mating List, also Summer Sale List, which will be out about May 20th.

JOHN S. MARTIN, Box 51, Port Dover, Canada

well fed are worth more than many ill fed ones. Give the early pullets the best of care. Every good laying pullet will be needed next fall, and every pullet laying next October and November means more food for everybody, and particularly necessary food for our boys in the hospitals. There are no food like new-laid eggs and fresh milk for helping wounded or sick soldiers and sailors to regain health and strength.

* * *

The person who speaks disparagingly about the American hen, does not know any better. He does not appreciate the wonderful food value of the new-laid egg, perhaps has always had plenty at too low a price to know the meaning of going without. Madam Hen is "doing her bit" and doing it well under difficult conditions. Only recently the investigators at Johns Hopkins University pronounced artificial foods a failure and stated that the oil in the yolk of an egg contains an unanalyzable substance which is essential to the maintenance of human life, and particularly necessary to children and invalids. The new-laid egg is one of the most important and least appreciated foods. Only the poultry specialist produces, with his flocks, eggs of highest food value and quality. If the consuming public really appreciated these specialty egg-farm eggs, it would find them cheap at even ten cents each.

* * *

Do not fail to hold on to your family flock of egg producers. Every ounce of food produced at home will be needed and eggs are the best of food. You will not miss the feed, or the cost of the feed, for your flock; but you will sadly miss the eggs if you fail to produce them.

* * *

Write to your Senator and Representative in Congress and ask them to give their support and encouragement to the Poultry Husbandry Division of the U. S. Dept. of Agriculture, in charge of Harry M. Lamon. If you have a good idea for the betterment of the poultry industry write to Mr. Lamon about it. He is working for the interests of poultrymen and he should have your support and encouragement. Your interests and his interests are the producers' interests. There are other powerful influences at work which are not for the good of the producers. Get behind Harry Lamon and the Poultry Husbandry division and boost the cause of more and better poultry.

* * *

Dr. M. E. Pennington, of the Bureau of Chemistry, is also interested in poultry, but she does not seem to be in sympathetic understanding with the producers' problems, her work has been chiefly with the big packing and distributing agencies. At the recent Chicago conference she spoke of instructing the country buyers to keep prices down and "to pay only enough to keep them (the fowls) coming" and to advance prices only a sufficient amount to keep the fowls coming from the farms, but not to pay enough to encourage heavy selling. That should have a good deal of significance for producers of poultry. It may explain why poultry prices did not respond readily to the increased cost of production. Poultry raisers only want a fair price and a liv-

10TH YEAR SEE THAT "XX"? POINTS THE WAY. START RIGHT YOU END RIGHT

DETOUR

Take the "Sure-Road" direct to success in hatching chickens. Science to win every time against the "old way" of guessing. You can't afford to waste your time nor your incubator space with unhatchable eggs. Better change your methods. For ten years thousands have tried in vain to hatch one egg this tester rejects, but

NO HUMAN BEING CAN DO IT

Don't trust to judgment. You can't tell from looks if a Victrola record is vocal or instrumental, rag time or classic, but the needle can. So can the Magic Egg Tester pick out the best eggs to incubate, but you can't. Buy one and prove it yourself. \$2.00 each. Cost refunded after trial if not satisfied. Sent by insured Parcel Post same day order is received. Latest and very best incubation methods. Circular free.

MAGIC EGG TESTER WORKS, Dept. B

Buffalo, N. Y., also Bridgeburg, Canada

POORMAN'S 200 EGG STRAINS

THE
WORLD'S
BEST
LAYERS

BABY CHICKS

TRAP-
NESTED
200 EGG
STRAIN

EGGS



STOCK

White and Barred
Plymouth Rocks
Rose and Single Comb Reds

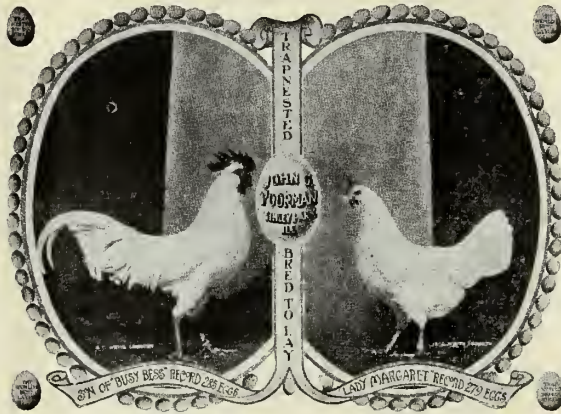
White and Buff Orpingtons
S. C. White Leghorns
White Wyandottes

Stock, Eggs and Baby Chicks from my Improved Laying Strains and your careful attention will mean your success. I am offering you Stock, Eggs and Baby Chicks from the same stock that has proven entirely satisfactory to thousands of my customers in this and many foreign countries.

RESULTS

Belleville, Ill., March 23, '18
Dear Sir—I would like to know if you would take an order for 50 day-old Single Comb White Leghorn baby chicks to be delivered about April 15th, not later than April 20th. If you can fill the order, please let me know at once and I will send a check for the amount. I had your stock for several years, but last year I allowed a fellow to sell me something else—that settles it, tho. Please let me hear from you, and oblige,
Truly yours,
E. P. P.

Davenport, Ia., Apr. 10, '18
Dear Sir—Chicks came bright and early this morning. Certainly are the greatest bunch of youngsters I ever saw, and am well repaid for wait. Thanking you, I am
Respectfully,
H. H.



Special Pair Mating—S. C. White Leghorns

RESULTS

Fort Madison, Ia., Apr. 5, '18
Dear Sir—I will just write you a line or two to let you know that the 50 Barred Rock chicks arrived O. K. and in due time. All are in fine condition and strong looking chicks. Many thanks to you for prompt delivery.
Yours truly,
R. C. S.

Scranton, Pa., April 12, '18
Dear Sir—Just a line to let you know the baby chicks arrived O. K., Thursday, April 11th, all alive and seemingly a peppery bunch. To say that we were pleased with the lot is stating it very mildly. Thanking you for your attention and assuring you of our future trade, we remain,
Yours truly,
A. H. G., W. B., G. J. C.

My 18 Years

of practical poultry experience has been incorporated into my bred-to-lay strains in such a manner that brings forth unsolicited hundreds of repeat orders from customers of many years standing. My catalog contains descriptions of my plant by representatives of the leading poultry publications, reports from many of my customers, and also my methods of breeding, care, and management. It is fully illustrated, and very instructive, and will prove to you that my prices on eggs at 15c and 30c each, baby chicks at 25c and 50c each, and breeding and laying stock at \$2.50 and up, are very reasonable.

*Start right, by writing for my instructive catalog today.
It has helped others and it will undoubtedly help you.*

JOHN G. POORMAN, BOX 100, TINLEY PARK, ILLINOIS, U. S. A.

Stop Hatching Weak Chicks

With Cheap Incubators

Remember it is not how many you hatch that counts, but how many you raise. Chicks that hatch out weak and wobbly, and live but a few days, mean nothing to you except trouble and loss. They make one sick of the poultry business. Most of the chicks you lose in the first two weeks die because they did not hatch out with enough vitality or strength for a good start.

Queen Incubators

Hatch Chicks That Live and Grow

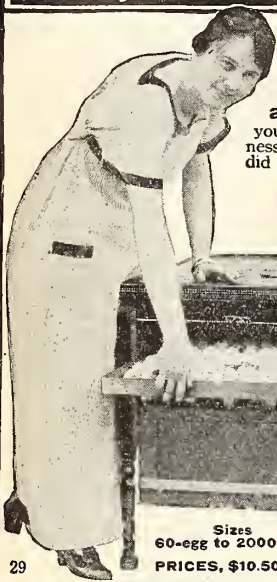
The Queen is accurately regulated—taking care of a temperature variation of 70 degrees without danger. It is built of genuine California Redwood—very scarce in these days of imitation and cheap substitution. Redwood does not absorb the odor from the hatching eggs. Cheaper woods, and pasteboard lining in iron and tin machines, retain the odors, to weaken and kill the hatching chicks.

Start your chicks with a Queen constitution and they will make money for you. The Queen is not a cheap incubator, compared with many of the cheaply constructed machines on the market, but it is cheap in the long run. It will be turning out high percentage hatches years after the cheap machines have been junked.

Sold by dealers. Catalog sent free on request.

QUEEN INCUBATOR CO.

No. 14th Street Lincoln, Neb.



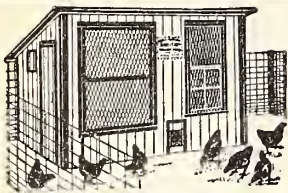
Sizes
60-egg to 2000-egg
PRICES, \$10.50 UP

29

ing profit. None of them are likely to rush profitable laying fowls into market simply because attractive prices may be obtained, neither do they like to feel that prices are going to be held arbitrarily at a point just sufficient "to keep them coming." * * *

Just as we were planning to disc a fall-ploughed field and get it ready for peas and early potatoes, along came the April blizzard with sleet, ice, and heavy snow fall. As we write these notes, the farm looks like mid-winter instead of gentle spring and the robins and other birds must be fed to prevent their suffering. The poor birds are having a hard time seeking shelter from the chilling wind in the branches of the ice-and-snow-clad pines. The broods of early chicks are all well sheltered, but are protesting vigorously against the lingering winter. The prophets who predicted an early spring have once again dug their furs out of the moth balls and cedar chests, and are beginning to talk wisely about the "movement of the polar ice cap." We don't know about that, but we have met many similar springtimes in rugged old New England. * * *

Potter "Redybilt" Poultry Houses



Don't Build - It's Cheaper to Buy

An old reliable Potter ready-made henhouse can be purchased for less than it would cost you to build one. They have been used and recommended for over 16 years by thousands of poultry keepers, all over America. A clean sanitary house, nests and roosts mean healthy hens and lots of eggs. Do your part and the hens will do their part.

Roosts,
Nests, etc.,
Ready to Use

A \$39.50 Potter House Portable, open front, fresh air, scratch shed house, equipped with 6-ft. 3-perch Potted Henery Outfit for 30 hens.

For Less Than Cost of Making

Sanitary, portable, inexpensive. You start right when you install Potter outfits—roosts, nests, drop-boards coops, hoppers, etc. Get rid of makeshift, unsanitary disease-breeding fixtures and make a bigger success of your flock.

Get the Potter Book—it shows over 100 pictures of portable houses, coops, henery outfits, etc. Mailed free for two red stamps to cover postage.

POTTER & Co. 56 FOREST AVENUE DOWNERS GROVE, ILL.



A \$6.60 Potter Outfit

6-ft. 3-perch, 10-nest Henery Outfit for 36 hens. Same style made in 12 sizes.

While in Chicago, we had the pleasure of attending a Friday lunch of the Chicago Association of Commerce, at the New Morrison Hotel, where food regulations were very strictly observed but a good meal was served at 60 cents a plate. Julian B. Arnold, member of the British War Mission, gave a most interesting talk on "What is a Non-Essential Industry in War Time?" at this lunch to an assembly of several hundred "business executives." Mr. Arnold finds that the only real non-essential in war time is the pacifist, and thinks that "they should all be put in cold storage and no one would ever take them out." One "executive" ventured the remark that here in America we have our pacifists making submarine chasers, serving as Secretary of War, and doing little unimportant things like that. Probably they have a different brand of pacifist overseas, but ours seem to have left off the first four letters and kept only the "fst."

We were told that all Britain is busy on work for the war and for the "war after the war." They are "in the war over there." He does not think we are really awake yet. In England plans are already prepared for the new mills and factories to be built in Belgium. The machinery is already built and stored in English warehouses, each piece numbered and marked for its proper place in the manufacturing plants to be built as soon as the Germans are driven back far enough to permit it. England is wide awake, very wide awake, with "preparedness for the war after the war." It would seem that we Americans might learn a lesson here.

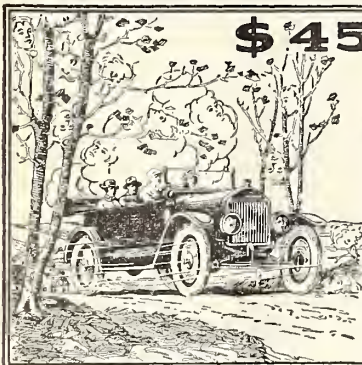
He told of the wonderful work of English women at men's work, of their efficiency in factories and war munition plants. The British workingman and working woman are getting much better pay than ever before, are "comparatively well off." More pianos were sold in England last year than ever before, but they were secondhand pianos from the homes of the rich and they have gone into the homes of the working classes.

\$450 FORD AUTO

FIRST GRAND PRIZE

IN the picture are hidden a number of faces. How many can you find? Some are looking right at you, others show only the side of the face—you'll find them upside down and every way. Mark each face you find with a pencil, clip out picture, send to us with name and address NOW. We will give away a \$450.00, 1918 Model, Ford Touring Car as First Grand Prize and Thousands of Dollars in Cash Rewards, Prizes and Special Premiums. Each worker will be rewarded. Solve the puzzle. If you can find as many as FIVE FACES, we will send you at once 1,000 Free Votes toward the \$450 Ford Auto and other Grand Prizes. We will also give away several \$40 Bicycles. These will be given free and extra, regardless of who gets the Auto. Someone will get the Ford Auto—WHY NOT YOU?

FARM LIFE, Dept. 34 SPENCER, IND.



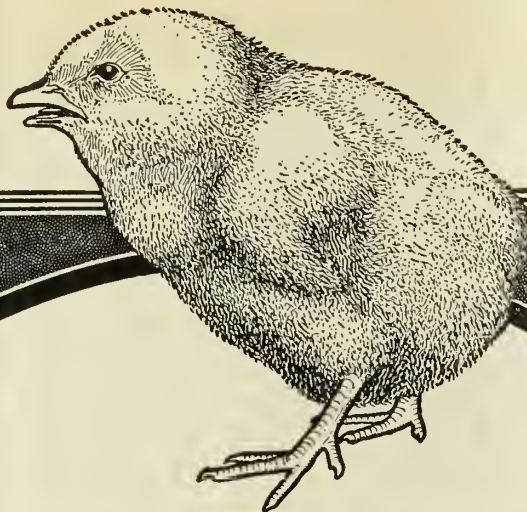
Poultryman's Pocket Companion

Guaranteed genuine leather pocketbook.

Combination Bill-fold, Coin-purse, Card and Photo-case of Finest Genuine Black Seal Grain Leather for only 50c, postpaid (\$5.40 per doz.) Any name beautifully engraved in 23-Karat Genuine Gold free (street number and city 20c each extra.) Measures 3x4 3/4-in. folded. Has coin-purse, bill-pocket, photo or pass-window, 2 secret pockets, check book holder and 48-page Memo-Diary, brimful of information. 12th annual catalog, Guaranteed Leather Goods and Novelties free with orders for "Bankroll" or sent alone for 10c postage. U. S. LEATHER GOODS COMPANY, Established 1906 Dept. 30A, 106-8-10 W. Lake St., Chicago Incorporated 1910



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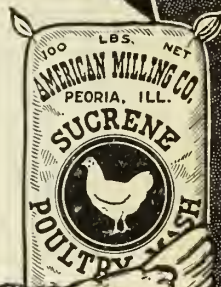
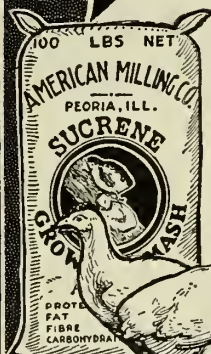


**Broilers in
2 Months**

**Layers In
5 Months**

SUCRENE POULTRY MASH

*Makes War Time
Poultry Pay*



Get into the big drive for a hundred million pounds more poultry meat this year. Uncle Sam calls for it to meet the country's food needs. A few more back lot poultry flocks, a few more chicks per farm,

a little better care in feeding to prevent the 30% to 40% loss of young chicks every year, will produce the desired results.

Sucrene Growing Mash, Poultry Mash and Scratch Feed

solve the feeding problem for you in an easy and economical manner. They are scientifically prepared under the direction of high poultry feeding authorities. Can be absolutely relied upon for profitable returns.

For healthy chick growth and quick, full development of fryers and layers, Sucrene Growing Mash has no superior. Its 18% protein, 53½% fat and carbohydrates, with a proper percentage of ash, supply all the needs for flesh, feather, bone and vigorous vitality. Sucrene Growing Mash promotes health—saves the young chicks—makes the plump fryers or hardy layers in fall. That's when they bring in the money

Make Your Hens "Rapid-Fire" Layers

Sucrene Poultry Mash does it by keeping hens in prime condition and supplying the egg-making nutrients in proper proportion every day in the year.

In feeding for eggs keep in mind that ordinary grain rations are one-sided—do not afford nutrients necessary for complete egg formation. 100 lbs. of corn, for instance, would produce 255 yolks and only 134 whites. Other grains are similarly disproportionate in nutrient quality. Hens can't lay half-made eggs.

Sucrene Poultry Mash is composed of corn feed meal, alfalfa meal, meat scraps, corn distillers' dried grains, wheat bran, linseed meal, palm kernel meal and small percentages of calcium carbonate and salt. Guaranteed analysis: 18% protein, 3½% fat, 50% carbohydrates, 12% fibre.

In *Sucrene Poultry Mash and Scratch Feed* your hens have a complete, scientifically balanced body-maintaining and egg-building nourishment. Keeps them up to maximum laying capacity all year 'round—hurries them through the moulting period in good shape because they are strong in feather building material.

Sucrene Poultry Feeds Have a Record of Doubling the Egg Yield of Hens in Three Weeks

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\$20,000,000 is the estimated annual loss to the poultry producers of America because of the low average egg production of the American Hen! Are you contributing to the loss or do you keep poultry which is bred for business? You can

Make More Money

than before the War if your hens are of high average egg production. It requires about two doz. more eggs per hen to pay the feed bill now than three years ago. Are you getting the extra eggs? Keep better hens of the right quality and start now by buying



SHOREWOOD

Buff Leghorns AND R. I. Whites

Their quality has been repeatedly demonstrated under official test. We own the birds which have made the Highest Official Records in their respective varieties to date. And, too, our birds have been biggest winners at Chicago Coliseum and other prominent shows. They have made good with others—they will make good for you. Just one male raised from Shorewood eggs or baby chicks will be worth every cent of your purchase price and more too in "egg-breeding," and the females will keep you bountifully supplied with fine fresh eggs the year 'round.



Shorewood poultry is your best investment—farmer, fancier, commercial poultryman or back-yard poultry keeper. Get our illustrated mating list and ask for our new Spring Bulletin on

Eggs, Baby Chicks and Mated Breeding Stock

We have a special prepaid offer which will interest you. Write today.

SHOREWOOD FARMS CO.
842 Shorewood Road - Saugatuck, Mich.

The piano manufacturers have put their skilled men to work on aeroplanes and other war work where skill in joining the wirework is necessary; the jewelers are making caps for the shells, work which requires delicate fingers and fine workmanship. And so it goes, "everybody is in the war." Mr. Arnold's address was intensely interesting from many points of view,—but most of all it made us feel that here at home we have been "almost asleep at the switch." But America is waking up, there can be no doubt about that.

* * *

With an embargo on shipments East of Syracuse on grain and feeds from the West; and no bran, middlings or mixed feed obtainable at any price; oats scarce and corn poorer in quality, more chaffy and full of cob, the lot of the New England poultryman and dairyman is not one joyous round of pleasure. We are trying to do our bit in food production, but it looks as if grain and feed shortage may compel us to finish off the chicks as broilers and fryers, and can them. From present indications the one best bet of the New England farmer and poultryman is to put a large part of his effort this season into producing grain for his stock and a supply of food for the family. Freight seems to be moving, but foodstuffs and grains and feeds are not coming into this part of the country fast enough to help us much—and next fall and winter we expect that transportation difficulties may be increased instead of improved.

* * *

The following from Wallace's Farm-er is both interesting and very much to the point:

"WHY NOT PRACTICAL HELP."

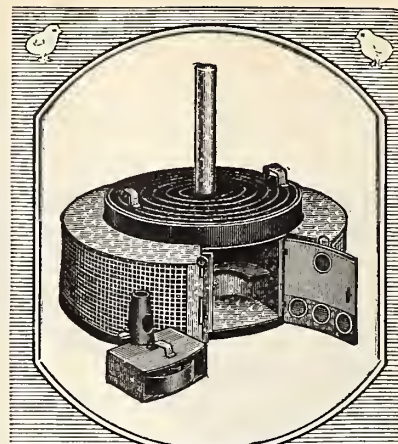
"We have been enjoying the reports of some of the egg-laying contests and descriptions of some of the government poultry plants and buildings. We confess after reading of one with electric lighted buildings, electric heated water vessels, floors which cost \$500 and unlimited help (not only with the practical work of cleaning, whitewashing, etc., but also with the clerical end, and expert help in balancing a war-time ration), we felt a twinge of jealousy, because we, too, could not command for our flock the modern conveniences which fall to the lot of the government-minded hen.

"Probably few farmers' wives have time to care for their chickens as well as they know how to care for them. We would all white-wash every month if we had the time, but there are many interfering calls from other branches of home, house and farm work which must be cared for, and the poultry branch is one of the smallest.

"The head of a large concern is not expected to run the errands of the place. His time is conserved for the big things by letting the less valuable workers do the chore work. Why can't the government be of service to the farm women by providing a portable whitewashing machine with a crew of two and an automobile, to cover each county to see that the chicken houses of the country are cleaned, disinfected and whitewashed by men or boys who are not needed in half a dozen places at once, as is the farmer's wife? The cost of the outfit would probably not be greater than the cost of the bulletins telling us how to do it, and why it should be done, and women would gladly pay a fair wage for the labor.

"Important as is increased poultry production to the country, the need of the individual farm home for the mother's care is greater, to say nothing of the farm work which women will likely do this summer.

"Practical demonstrations carried out on farm homes might well come within the scope of the extension work, but if we put help from the government out of the question, is there any good reason why a neighborhood should not have routine cleaning done by one equipment, as well as threshing, shredding fodder, etc.? It isn't hard to do things right when one has everything to do with."



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You'll like this Oakes Brooder Hover

It's made of light, strong, durable steel and will stand anywhere you want it; no special platform or false floor necessary. It is complete in itself and takes but a small flame to give plenty of heat for the good of your chicks.

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Eastern Branch, 303 Pearl Street, New York.

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92% Pure Carbonate of Lime
More eggs, harder shells, healthier hens.
Cost 1c per pound. Ask your dealer, look for trade-mark, write for booklet. W. A. BEWITZ & CO., St. Louis, Mo.

Here is one of the best spring poems we have yet seen, and it is particularly apt this spring:

"EVERYBODY'S DOIN' IT."

In our little town—oh, sad to tell!
There's a merchant who doesn't know how 'to sell,
A lawyer who doesn't know much of law,
A sawyer who doesn't know how to saw,
A teacher who doesn't know how to teach,
A preacher who doesn't know how to preach,
An odd-jobs man with never a job,
A cobbler who doesn't know how to cob,
A miller who doesn't know how to mill,
A butcher who doesn't know how to kill,
And a doctor who doesn't know how to doc.;
And since none of them are busy men,
You'll find them over and over again
Around the stove in the general store,
Each talking freely—and thru his hat—
Doing the one thing they're all good at—
Giving advice to the farmer!

—Exchange.

* * *

Several dozen people, already, this spring, have been telling us what we ought to do on our farm. We know well enough what ought to be done, we know what we would like to do, and we also know just about how much we will be able to do. With four in the family, all busy from sun-to-sun and much later for the elders, and a hired man who will only work 9 hours, or from 7 a. m. until 5 p. m.—with an hour off for dinner—we find we have to do whatever task happens to most need doing. There are many things which should be done and have to be left undone, either from lack of time or lack of funds. But city friends, with easy hours, seem to think they confer a favor when they drive out to the farm, for an automobile ride, and advise us what we ought to do in our spare time. Just as if there ever was such a thing as "spare time" on a farm. We wouldn't mind it if they would take off their coats and pitch in to help, or if they wouldn't expect us to quit work to entertain them, for we really do enjoy a reasonable amount of company—but we do balk at so much advice on how to run our business, from people who do not know what real work and long hours are like. Also it gets our goats to be asked for chickens, eggs, and other produce, as if it cost us nothing and we ought to be glad to give it away. We enjoy giving as a voluntary offering, but we do not like to have people try to use us. We wonder how a city merchant would feel if we walked into his store, tried to tell him how to run his business, and then asked for a gift of some of his choicest goods to take home. We'd expect to get kicked out and asked to stay out. However, there are a lot of people who seem to think that food ought not to cost anything and that they should be fed for nothing.

SOME OF
THE GREATEST LIVING BARRED ROCKS

were produced by my customers from Aristocrat eggs last season.

This statement means that my customers produced some of the very greatest Barred Rocks in all America—in all the world—from Aristocrat eggs. Hundreds of prize-winners—prize-winners in the biggest, largest shows of the entire continent—were hatched and raised and exhibited—by my customers—from regular Aristocrat eggs purchased last spring. (Note: The same identical hens and cock birds which produced those great winners this past season are again mated up right now.)



While you are breeding and raising chickens, why not breed, feed and raise THE BEST ?

Why not? It costs no more to feed and raise the very richest Aristocrats than to raise scrubs. **THINK!**

Send today for big, beautiful new catalogue and special booklet (FREE) and read THE CONVINCING PROOFS, under such headings as these: "Purchases Aristocrat eggs and wins out at the biggest show in America"; "A simply phenomenal record in Texas"; "First and second cockerel in New Jersey from Aristocrat eggs"; "Figure out this phenomenal record in Canada"; "Thirty-six ribbons, three championships"; "A great victory in Pennsylvania"; "Four first prizes at State Show"; etc., etc. Regular prices: 15 eggs for \$10; 30 for \$17.50; 50 for \$25; 100 for \$50; 500 for \$200.

Eggs Now Half Price

W. D. HOLTERMAN, Fancier Box A, FORT WAYNE, IND., U. S. A.



Our Fresh Air Method of Incubation

is partly responsible for the extraordinary vitality of our chicks. Our catalogue explains about it.

Guaranteed Extra Strong
DAY-OLD CHICKS

LARGE CAPACITY QUICK SHIPMENT

Bred from vigorous, bred-to-lay utility stock. Nearly everyone recognizes that it is a patriotic duty to raise everything possible in the way of foodstuffs. For most people poultry is the easiest and most economically produced. The best way to raise poultry is to buy Baby Chicks. The best Baby Chicks to buy are "Elyria" chicks.

We can ship by Parcel Post.

You should see our chicks to appreciate their extra strong vitality together with quality markings. You will make no mistake when ordering from us as we guarantee satisfaction.

Send for our free descriptive catalogue and prices without delay as orders are coming fast.

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You Should Send 25c for Our New Poultry Account Book.

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After May 15, we will sell choice S. C. Buff Orpington breeding stock singly, in trios and in pens at greatly reduced prices. Our show records prove Sunswick Buff Orpingtons to be America's leading strain. This is your chance to make a fine start in this grand general-purpose breed at small cost.

HATCHING EGGS
\$5, \$10 and \$20 per setting. Utility Eggs \$20 per 100.
75% fertility guaranteed.

BABY CHICKS
50c each for fine sturdy youngsters.
Full count and safe arrival guaranteed.

BARGAINS IN BREEDERS
\$3 and up. Tell us your needs and we will help you select the right birds.

Sunswick Poultry Farm

WRITE FOR 1918 CATALOG AND MATING LIST
Rufus Delafield, Owner, Tel. 549-J, Plainfield, Box J

South Plainfield, N. J.

RUDY'S Perfection White WYANDOTTES

R. C. REDS

220 AVERAGE

OFFICIAL RECORD
Meyer's Famous
R. C. Reds

Our pen No. 59 in the 1915-16 Missouri National Egg Laying contest has

The Highest Record Ever Made

by a pen of Reds in any laying contest.

Our pen No. 22 in the 1916-17 American Laying Contest was 1st prize pen in the contest.

This shows that Meyer's Reds are leading all others. They win first year after year in competition with the best blood in this country. If you wish the best, write for free mating list.

Hatching Eggs from all our matings at half price after May 10th

RIVERVIEW POULTRY FARM
Hubert Meyer, Prop. Klondike, Mo.



Home and the Table

Good Things for Everybody

No sadder proof can be given by a man of his own littleness than disbelief in great men. —Carlyle.

IN THESE days of world strife and disrupted communication between the various races and peoples of the earth, it is a rare privilege to have the opportunity to talk with one who has but lately returned from Russia, after having taught in the schools of that country for a number of years.

Early in March I had the privilege of hearing Miss Alice Lowe, a citizen of this country but late of Petrograd, Russia, speak on the present status of the Russian people and the outlook for their future. After her lecture I had a personal interview with Miss Lowe, discussing with her the various phases of her most interesting subject.

Miss Lowe's admiration and enthusiasm for the great Russian people is unbounded. Having lived in Russian families in various parts of the country, taught their children, enjoyed their hospitality, studied their manners and customs, she returns to her native land with no word other than that of highest praise for, and confidence in a great true-hearted, noble people.

Miss Lowe expressed the hope that the American people would not lose faith in the Russians because of the dearth of encouraging news which reaches this country from Russia. We should consider the present state of difficult communication between widely separated countries, the sinister motives everywhere at work to discredit justice and right. But going deeper into the matter we must recognize the fact that in going among a people, the newspaper correspondent, or the college sociologist cannot find more than he carries with him—frequently less, but never more than he himself is capable of appreciating. It has been said that a word or an act means to a man just what that man is, and using what language he will, he can never say anything but just what he is. We cannot therefore expect any great depth of vision from some of the narrow minded, superficial observers who are going about the world at the present time in an endeavor to depict conditions.

When we wish to acquaint ourselves with the conditions of a people or with the spirit of the age, let us go to the source, and discover what is being done and suffered in the homes; let us know the temperament and personal history of the people, for here we find fact and not fiction. The superficial observer has neither time nor inclination to thus go to the root of the matter. But to divine the true character of a people, to read the hope which they nurture, let us go into the dwelling houses rather than the state house or the police station. For this work, men of ability are required and there is a shortage of capable men in the world. Sugar, ships and flour are not the only articles of which we are short. The correspondent finds it easy enough to count the number of men in the various divisions of the army, the number of square miles gained in an advance, or to criticize the views of the Soviets with which he is not in sympathy, but to study and learn of the conditions of a people, to note their characteristics, to expand his intellect sufficiently to appreciate their motives and hope for the future, is a much more difficult task.

The great intellectual revolution which assailed the old order of things in Russia, and upon which the revolution was based, preceded the actual revolution by no man knows how many years. But it is certain that the minds of the peasants, as well as those of the upper classes, have long been at work upon the problem. The widely circulated statements in regard to the dense ignorance of the masses in Russia will bear careful investigation. A large proportion of the people cannot read or write. But the Russian peasant is not lacking in real education. His education has not been gained in schools or found in books, for it consists in self-discipline, in self-reliance and in the ability to provide for and govern himself wisely. These people have grappled with the difficulties of life for generations, their minds and faculties have developed thru the constant necessity of providing for present and future contingencies such as a more protected or privileged people could have no conception of, and their minds are alert and open. Scaled-brain egotism and self-sufficient vanity are lacking in the Russian people. While there exists an inferiority of mere book learning, they possess a superiority of thought to many classes of people who have enjoyed the

privilege of free education but who have not been trained to think for themselves. In fact, the best word that comes from the Russians is that they are thinkers, and when a people possess this faculty the world must soon be aware of it. Emerson says that "when a thinker is let loose upon this earth it is as if a conflagration has broken out in a great city and no man knows what is safe or where it will end. There is not a piece of science but its flank may be turned tomorrow, no so-called eternal names of fame that may not be revised and condemned. The very hopes of man, the thought of his heart, the manners and morals of mankind are all at the mercy of a new generalization. The state of the world at any time is directly dependent upon the state of the existing intellect of mankind. That which is dear to man at this hour is so on account of the ideas he has fostered. A new degree of culture would instantly revolutionize the entire system of human pursuits."

A great sense of human justice characterizes the Russian people in all their undertakings. Honor and courtesy are a part of them. They are passionately fond of their children. They are both affectionate and demonstrative. There is marked absence of pretense among them. In their daily speech men and women everywhere and among all classes call each other by their given names. Prefixes are not used even among the royalty. Educational advantages among the upper classes are superior to those enjoyed in many of the most advanced countries. Four to eight languages in addition to the native language are spoken by the average educated Russian and these almost perfectly spoken without the slightest accent.

The Russian Bolshevik embraces the idea that labor is necessary and honorable and should be shared by all, that this is the only honest solution of the world's troubles and that nothing less is safe. They aim to establish a state wherein every individual shall accomplish his particular line of work and receive just consideration for it, and they have courageously set their hands to this great task, believing that a world in the hand is worth two in the bush.

Let us not forget that during the dark days of England's Great Rebellion, those men who rallied to her aid and rescued her from oblivion were not from the so-called educated classes, but men, many of whom could neither read nor write and all of them from the lower classes of society—tailors, tinkers, brewers, stable-

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Pullets and Cockerels

8, 10 and 12 Week

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Also Breeding and Laying Stock

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PURITAN-FARM
S. W. LEGHORNS
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S. C. White Leghorns

Chicks - Eggs for Hatching

Not to late. Order now and find Puritan Strain will be laying when snow flies.

Chicks.....15c each
Eggs.....\$6.00 per 100

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ROCKDALE

White Rocks

Eggs for Hatching \$2.50 to \$5.00 per Setting

Breeders half price after May 15th

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The Greatest Chicago Winners.

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All Competing Separators

In the Official Skimming Tests made by the jury of Dairy Experts at the last World's Fair, San Francisco.

FACTS Book FREE

"FACTS" tells why the "IOWA" skims closest, under all farm conditions. "FACTS" describes the famous Curved Disc Bowl, gives results of actual skimming tests made on farms and by all leading Agricultural Colleges. Free. Write

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men, draymen, servants, coopers, carpenters and stokers. Cromwell himself had been employed in a brewery and according to England's best historian, "the tailor and the drayman were in that age strong enough to direct the course of public affairs and to win for themselves high position in the state." Then let us not fear for Russia or the great Russian people but accord them our whole hearted confidence as President Wilson is ably doing.

There is no want of sincerity in the Russian leaders or the great mass of the people and while their progress may be temporarily retarded by the powerful obstacles arrayed against them, yet in the end their cause must triumph. Coming generations will not be greatly interested in the recitals of strategy and intrigue of the German war machine, but they will read intelligently and with thankful hearts of the great Russian movement which aims to rescue her civilization at a hard pinch. The worthy efforts and high aims of this great people will long survive the puerile attacks made upon them in the current press.

The following receipts were contributed by Mrs. Susie Fisher Kline of Louisiana, who has kindly sent us ninety-five receipts in which rice is used and which are gotten out by the Southern Rice Growers Association:

OKRA GUMBO.

Place one quart of tomatoes and one quart of okra cut in rings in three quarts of water, and boil. Cut up a chicken as for fricassee. Fry the chicken and when brown drop it into the vegetable mixture. Add onions chopped fine, salt and pepper to taste and let simmer for two hours. Serve with minced sweet pepper and rice. A little canned corn may also be added, with bay leaf, parsley and celery for seasoning.

CREOLE JAMBALAYA.

Jambalaya is a stew of meat and rice, shell fish and rice, fish and rice, or fowl and rice, highly seasoned. It is a palatable and nutritious dish that is popular in the rice growing regions of Louisiana and Texas. Fry out some pork and add two minced onions, cooking until brown. And about a half of a pound of minced chicken left from a roast, and season with bay leaf, thyme, parsley and garlic. Brown and add two quarts of hot water and boil for about ten minutes. Add a cup of rice and boil until tender. Season with salt and pepper and tabasco.

RICE AND PEAS.

Boil two cups of black-eyed peas with half a pound of salt pork. Boil a cupful of rice in a separate pot. When the peas are tender add the rice to them. The peas must be moist enough to mix thoroughly with the rice. Now add half a cupful of minced ham, a teaspoonful of grated onion and a tablespoonful of butter. Simmer for a few minutes and serve. A can of tomato purce may be added and if this dish is then served with corn bread sticks, you will have a real meal. Red beans and rice cooked the same way, form another palatable and nutritious dish.

BAKED RICE AND HAMBURGER.

Boil one cup of rice and drain. Add half a can tomatoes, two onions cut fine, one pound or less of hamburger steak, salt and pepper to taste. The flavor is improved by frying the onion in a bit of fat for a few moments before adding to the mixture. Put all into a dish and bake about an hour. Serve hot.

GUMBO.

Cut up a chicken as for fricassee. Fry it in a large stew pan or kettle. When brown, sprinkle over it a tablespoonful of rice flour and let the flour brown. Add hot water enough to a little more than cover the chicken. Add two sliced onions, a seeded pepper pod, and salt and pepper to taste. When the chicken is thoroughly cooked and about fifteen minutes before the gumbo is to be served, add fifty oysters and their liquor. When the oysters wrinkle at the edges move the gumbo to the back of the range. Sprinkle into it a tablespoonful of file. Serve immediately with warm boiled rice. File is a powder obtained by pounding and sifting dried tender sassafras leaves. It is used for thickening and seasoning soups.

RICED CHILI CON CARNE.

Cut a small round steak into small pieces and put into a kettle with one tablespoonful of drippings, one cup of boiling water and two tablespoonfuls of rice. Cover and cook until tender. Seed two large, dried red chili peppers and let them stand ten minutes in a cupful of boiling water, then pour them into a sieve and press thru until the water is red and thick. Season with salt and onion juice. When the meat is done, pour this sauce over it and serve very hot.



Efficiency Chicks

are just what their name signifies. They are hatched from stock bred to produce **efficiently**—that is, to lay consistently an average number of eggs that will make their keeping profitable. And now Uncle Sam has stepped in with *his* efficiency. He says:

We can send Baby Chicks by Parcel Post

delivered to your door in the city or to your postoffice on rural routes. May is the best month for baby chicks. And don't delay. Baby chicks are getting scarce. You must do all you can toward raising enough food to feed yourself and others. Letters from our old patrons tell us how well our stock is doing for them. And our prices are surprisingly low. Send today for our catalog, which tells you all about the nine varieties we supply.

CLYDE CHICK HATCHERY

Box A-21

CLYDE, OHIO

CAPONS



(From Life)

START with the right tools and you will be an enthusiast. Failure has discouraged thousands. My instruments and instructions have helped many of them to succeed. A moment's comparison with other makes will convince anyone of their superiority in design, workmanship and efficiency. Don't buy or operate again without investigating their merits. They fill a long felt want. Complete Set and Instructions, \$5.00. Removers alone, \$3.50. Covered by money-back guarantee. Remit by money order or add 10c to personal cheques. Order today from this ad. or send 6c in stamps for illustrated Capon Book, giving causes of failures and road to success.

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THEY LAY. In my pens are hens with records as high as 290. Every hen in my five best pens has a record of 200 or more.

EGGS \$7.00 per 100. BABY CHICKS \$12.00 per 100.

from this profitable strain with years of breeding for type and production back of them. Safe delivery guaranteed and I aim to give satisfaction to everybody.

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Made in 10 Colors—6 Sizes

Black, White, Dark Blue, Pink, Light Blue, Red, Yellow, Green, Purple and Garnet. No. 1, Pigeon, and No. 3, Day-old Chick, 12 for 10c; 25 for 20c; 50 for 35c; 100 for 50c; 250 for \$1.10. No. 2, Medium, for Mediterranean Breeds; No. 4, Large, for American Breeds; No. 5, Bantam, and No. 6, Extra Large, Asiatic Breeds, 12 for 15c; 25 for 30c; 50 for 50c; 100 for 75c. Special price on larger quantity.

Send 14c and we will immediately mail you 15 Bands. State size and color wanted.

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EVERLAY BROWN LEGHORNS

Send for your eggs Now! More Leghorn winners at the big shows are hatched in June than any other month. It takes quality however, to reproduce quality, bred-to-lay stock to produce heavy layers. The EVERLAY Strain is America's greatest winning-laying strain. Guarantee safe delivery of eggs anywhere. Circular.



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Profusely illustrated, durably bound, 9x12 inches in size. Contains complete reports of Madison Square, Boston, Cleveland, Chicago, Kansas City and other leading shows; together with many other valuable features. Tell us what variety you breed and we will tell you how you can get a copy of this great book free. THE INTERNATIONAL POULTRY FEDERATION, TOPEKA, KANSAS.

LOOK HERE! PARTRIDGE ROCK BARGAINS!

Included in every 100 eggs at \$7.50, you get a \$5.00 setting from pedigreed pens. With 100 baby chicks at \$15.00, a \$5.00 setting. 10% to 40% discount on splendid breeders. Buy Now. No Sunday business. MEADOWLAWN FARM SAND CREEK, MICHIGAN

UTAH LEGHORNS

It is no longer necessary to send East for the best in

S. C. White Leghorns
Show and Utility Stock

at \$3.50 to \$25, which will please anyone. They win and they lay.

BABY CHICKS \$15.00 per 100
HATCHING EGGS 2.00 per 15
..... 7.50 per 100

Eight-week old pullets in season.

I have in my breeding yards fifteen daughters of 300-egg hens, stock from these birds a matter of correspondence.

If you don't want to order from this ad, write me your wants and send for catalog.

EDWIN BRICKERT, BEAVER, UTAH



BE INDEPENDENT At Santa Cruz, Where Chickens Grow Into Money

If you are a man or woman of moderate means investigate the possibilities of poultry raising at Santa Cruz, Cal. "I know of nothing which will yield so comfortable a living amid such pleasant surroundings," says one man who tried. Write today for free illustrated hand-book, "Santa Cruz Where Chickens Grow Into Money". Chamber of Commerce, 2822 Pacific Ave., Santa Cruz - California

FROM THE PACIFIC COAST

THE MOST INTENSIVE EGG FARM IN THE WORLD.

By CHAS. WEEKS, Palo Alto, Cal.

SOME years ago a man by the name of Philo, Elmira, N. Y., startled the world by a new and unheard of system of keeping poultry in small pens with no outside runs. He wrote a little pamphlet telling of this new and wonderful system of poultry raising whereby one could earn \$4,500 from a town lot in one year. The whole world went to raising poultry in the back yard. Philo, it is said, made \$100,000 from this little pamphlet in one year. Old poultrymen smiled and said that it could never be done. Nevertheless, Philo coops sprang up in the back yards the world over and sometimes on the roofs of tall buildings in large cities.

The old poultrymen began to sit up and take notice when the tales of wonderful egg production came pouring in from all directions. They began to wonder what there was in this system of keeping six hens in a pen 4 by 6 feet that causes such an amazing increase in the eggs. They began to experiment with this new plan. They tested it along side their large flock, free range systems and found out that Philo had only emphasized a natural and primary truth and that this truth or law holds good in the production of all kinds of live stock.

Segregation is the whole secret of Philo's success.

Small flocks, well fed and kept in close quarters in a sanitary way, brought unbelievable results. Philo was the pioneer of this new movement toward smaller flocks in close quarters. But his system partially failed. Soon the back yards of the whole world were piled full of empty Philo coops, big piles of junk marked with memories of long days of routine in carrying heavy pails of water from coop to coop, lugging pails of feed down long rows of

tiny houses, lifting roofs and scraping dropping boards from coop to coop, reaching into a hundred pens to gather eggs. True, you got the eggs, but oh, the detail! Yes, this was the way to produce eggs, but could any mortal stand the strain of this terrific detail and attain the degree of happiness to which he aspired? Philo was on the right track; he found out the secret of producing the maximum number of eggs from a given feed.

Philo's system was weak in one point. It was cumbersome in detail. The detail was so great that the day's routine was slavery for one who performed his own work, and unprofitable for one who hired it done.

Soon after the Philo system there came another known as the Corning System. This filled all the poultry journals of the land with printed matter and illustrations of wonderful long houses whereby one thousand hens were kept in one long house without outside runs, thus eliminating with one stroke the awful detail in the Philo System.

The whole poultry world erected long houses. Small houses were sledged to the corners of the yards and fields or split up into kindling. Miles and miles of long houses, with their flat shed roofs, stretched out on every horizon. What a terrific waste of energy, lumber and capital! The Corning book is a thing of the past. The Corning System failed.

It was against all reason to put one thousand hens in one long house, compelling them to breathe the dust kicked up from the straw-covered floor and to roost at night fifteen or twenty feet back from the fresh air, crowded up against the low roof, with the stench from fresh droppings arising from the dropping board just below, filling their nostrils till morning, I say this is against all human reason and the Corning System is a failure. True, there are some yet today that will not admit it, but they are only young in the game and time will correct the error.

One thousand hens packed in between dropping boards and low roof at night with the awful stench from below and the foul air from one thousand pairs of lungs to breathe and rebreathe thru the long uncomfortable night, is it any wonder that the hens come down from their clammy quarters in the morning with watery eyes, and running noses, and swelled head, and roup, and canker, and chicken pox? It is no wonder that the hens get the tubercular germs and waste away and drop off, day after day. It is a mystery how they can exist so long as they do and be able to even pay their feed in eggs.

It is producing eggs at a tremendous loss of hen flesh. One by one the hens drop off, and at the end of the year when the final reckoning is made the balance is not what we expected.

The pendulum had swung from the detail extreme to the other extreme.

The Philo System and the Corning System are the two widely exploited systems that have cost the world a mint of money. They have added to the progress of the poultry industry in that they have provoked thought and experimentation along new lines. Both the colony system, with the small houses on runners, and the yarding system, with its foul runs, have been used for years and each has its deficiencies.

The colony plan, with its small houses on runners which are dragged from place to place, necessitates a large acreage and is prohibitive to the man of modest means. It is essential in this system to change the houses to new ground at least once a year. This system, perhaps, necessitates the greatest amount of heavy labor because of the distance to be traversed each day in hauling feed and water.

It is sloppy and muddy in the winter season and all the eggs require washing. Besides the fowls are most uncomfortable. This system may make a profit of 25, 50, 75 cents or in

May and June "BABY LEGHORN" Months

You needn't board our Leghorns free all Winter—They Lay Eggs



"The Proof of the Pudding is the Eating"

Best day's laying in WINTER by 400 pullets, 324 eggs; another lot of 200 hens paid \$1,124 profit They lay as well for you. TESTED 10 YEARS. If you want the WINTER EGG AND BIG PROFIT, buy of the breeder that can give unquestionable PROOF. 20,000 chicks, selected GUARANTEED FERTILE hatching eggs at a LET-LIVE price. See my big free catalog.

May Hatch Laid 80% in Winter

Dear Sir: Out of 50 eggs from you I hatched May 14th, 46 chicks. Raised 21 pullets. From Nov. 3d, to present date, Jan. 6th, I received 10 to 17 eggs a day.

June Hatch Laid 84% in Winter

Dear Sir: June 10th, I bought 50 chicks from you, out of which I raised 25 pullets, Oct. 15th, they began to lay. From Nov. 1st, and during the coldest weather I gathered 12 to 21 eggs per day. Colo.

BIG FAT DISCOUNT

OSEE C. FRANTZ FARMS

ROCKY FORD, COLORADO

SINGLE COMB WHITE LEGHORNS

Winners of Every First Prize Panama-Pacific Exposition

Exhibition, Breeding and Foundation Stock, Line Bred and Trapnested

Hatching Eggs half price from June 1st to July 1st. Write for free illustrated mating list giving prices and description.

Mrs. E. B. Martin

RANCHO DEL MARTINO

P. O. Box N, Downey, Cal.

HIGHEST PEDIGREE

LAYERS

IN THE WORLD

WE HAVE THE GREATEST NUMBER OF OFFICIAL 200 EGG HENS OF ANY FARM IN AMERICA

Wyandottes Leghorns, Reds, Buff Rocks

MORRIS FARM, R. 4, BRIDGEPORT, CONN.

rare instances one dollar per hen. It is a cumbersome system with heaviest drudgery and far from the best.

The double yarding system with medium sized flocks is, perhaps, the most universal system in use and if yards are kept pure by growing crops, it gives results. But this system requires a lot of labor in keeping the yards free from disease germs. It is also expensive in ground, wire fencing and posts. Besides it presents an unkempt appearance that always looks ragged. It entails an endless amount of detail in opening and closing gates and much retracing of steps. Canker and pox usually come from filthy yards and it is a hard task to keep them pure. The routine of this system, like the Philo, becomes irksome and wearing, and, altho better than the other systems just mentioned, it has not given the results compared with the one about which I am to tell you.

After twelve years of handling in large numbers and many varieties, making this my exclusive business and working out every detail with my own two hands, spending my whole thought upon this line and continuous carrying on experiments, I have at last evolved a system of intensified poultry keeping that gets the results of the Philo System with the detail eliminated.

I have proven beyond the shadow of a doubt that the diseases of poultry come from filthy yards and the dust-laden foul air inside. The foul yards I have eliminated at one stroke by dispensing with them after years of careful experimenting.

Yards are absolutely unnecessary in getting the greatest profit from fowls, and in fact are a detriment, even if they could be kept free from harmful germs. All poultrymen mean to keep their yard pure, but they never do it. Yards are in the way of maximum results and only a nuisance. The yard has no place in my system of poultry keeping, the ground being worth far more for producing greens.

The less space a fowl can be kept on and yet insure health, the less space there will be to disinfect and keep free from disease germs.

It has been proven beyond argument that egg production increases as the size of the flock decreases. That happy point, where egg production reached its maximum with a given number of fowls, has taken years of experimenting with all sizes of flocks and all systems of housing and yarding to discover. After many years of detailed results the best percentage of eggs from a practical number of hens was had, in flocks of twenty in open front 8 by 8 pens, with three feet projection over open front to keep out rain. Less than twenty hens in one open pen requires more detail and too much cost in housing. More than twenty hens curtails egg production.

Twenty hens, therefore, is the unit for best results. To house these twenty hens so that they would be free from dust-laden air, so that they would have air as pure as outside air, so that they would still be protected from rains, and winds and cold drafts, in short, so that their bodily comfort would be the best possible at all times, to house these hens so that all these points would be taken care of is the problem. After trying all the designs of houses ever seen or read of, and after trying many patterns of my own, I at last evolved a house that gives all this bodily comfort and entails the least lost motion in care of fowls.

These pens are eight feet square, five feet high behind, and seven and one-half feet high at the comb, open front to the east over which is a three-foot projection to keep out rain and under which the attendant walks to care for fowls. These pens are built side by side into long houses, there being no limit to the length. Between each two pens is the feed hopper built into the partition and feeding both sides, holding one sack of dry mash and one of mixed grains in its respective compartments. Full length along the outside is the green feed trough from which the hens eat thru the opening. The water buckets are also on the outside. Thus all the hens are fed greens and watered without opening a single gate or door. The hoppers inside are filled once in about two weeks. The dropping boards and ground floor are cleaned once per week by simply raking the filth from the top of the sand which covers the floors. Sand is the only material to use on the floors of poultry houses.

Twenty hens, well bred, well fed, and quarters kept sanitary in this little pen are good for at least two dollars per year net profit

Don't let your poultry be worried by lice. Instant Louse Killer will kill the lice. Put it in the nests and in the dust bath. Raise better poultry—get more eggs.



DR. HESS INSTANT LOUSE KILLER

Now is the time to commence to nurse your flock. Chicks especially are apt to be lousy now. Sprinkle Instant Louse Killer into the feathers, about coops and runways. Always keep it in the dust bath. Dr. Hess Instant Louse Killer kills bugs and worms on roses and vines. Sold by 28,000 dealers and guaranteed.

1 lb. 25c, 2 1/2 lbs. 50c (except in Canada)

Dr. HESS & CLARK, Ashland, Ohio



BABY CHIX

:: STOCK ::

R. I. REDS BARRED ROCKS SILVER LACED WYANDOTTES

POORMAN STRAIN

TARBOX STRAIN

My stock is all of good type and size, and the fact that it is from the above well known strains speaks for itself. Their utility qualities are highly developed and I know of no place where you can get as good value for your money.

PRICES OF BABY CHICKS

100 Chicks, either variety	\$18.00	Broilers from farm flock Plymouth	Six-Week Old Chicks—May Delivery
50 " " "	9.50	Rocks, slightly mixed, and the odds	Per 100 65c each
25 " " "	5.00	and ends of the good ones, \$14 per	Per 50 70c each
		100, \$7.25 per 50, \$3.75 per 25.	Less numbers..... 75c each

I also handle Incubators, Brooders and Supplies

W. RHODES

DAKOTA, ILL.

TARBOX'S Silver Wyandottes, Red and Speckled Sussex

Winners at America's leading shows. This last season at the Illinois, Iowa, Wisconsin and Texas State Fairs and at the Chicago Coliseum, Milwaukee and Cleveland shows, our Wyandottes and Sussex won twice as many firsts as all our competitors combined. We have a fine lot of birds for sale at prices that will please you. Only a few cocks and hens left. EGGS at reduced prices. Wyandottes, \$8.00, \$5.00 and \$3.00 per 15; \$35.00, \$20.00 and \$12.00 per 100. Sussex, \$5.00 and \$3.00 per 15; \$20.00 and \$12.00 per 100. Utility matings in either at \$6.00 per 50, \$10.00 per 100. The above prices take the eggs from the same pens as we will hatch from. If you want some of them you better order early, as we are booking many orders now. Write us for what you want and get catalog and mating list.

A. & E. TARBOX - Box A - YORKVILLE, ILLINOIS

America's Best Wyandottes SILVER GOLDEN WHITE

Winners of over 400 premiums at Madison Square Garden, New York, and Chicago. Six firsts at the Greater Chicago Show last month. They won thousands of premiums at all the leading shows for our customers. We have 500 head of very choice exhibition and breeding birds at bargain prices, line-bred for 32 years. They have the size, shape and color. Can fit you out with almost anything you may want in this line. Eggs, \$3 and \$5 per setting. Also Golden Sebrights. Large illustrated circular.

IRA C. KELLER, Brookside Farm - Box 75, Prospect, Ohio

PAINT ROOSTS AND HEN HOUSES

with the highly recommended "CARBOLINEUM" (made in U.S.A.)

ONCE A YEAR and you have no MITES to fight. Guaranteed. Write

MADE CARBOLINEUM U.S.A. Wood Preserving Company, Dept. 50 MILWAUKEE, WIS.



Moeller's SINGLE COMB Brown Leghorns

again win 12 prizes at the 1917 Chicago Coliseum Show

in hot competition—this with previous winnings at the Coliseum and Indianapolis, Columbus and Milwaukee winnings is ample proof that my "Browns" rank among the best in the country. A choice flock of cockerels (either light or dark matings) for sale at \$5.50, \$3.00 and \$10.00 each; also 50 choice hens at \$3.00, \$5.00 and \$17.50 each. Eggs from six grand matings after February 15th. Write for mating list

H. F. Moeller - Box 137B - La Porte, Ind.



SECOND PRIZE WHITE PLYMOUTH ROCK COCKEREL
MADISON SQUARE GARDEN NEW YORK — 1917-18
STARKS FARM STARKS ONEIDA CO. WISC.



FIRST PRIZE WHITE PLYMOUTH ROCK COCK
MADISON SQUARE GARDEN NEW YORK — 1917-18
STARKS FARM STARKS ONEIDA CO. WIS.

above all expense. These twenty hens have nice sharp sand upon the ground floor and roosting boards, which are raked clean regularly; they have dry mash and mixed grain by them continually; they can stick their heads thru to the green trough outside and eat green feed every hour during the day; they drink water from clean galvanized buckets on the outside; they dust in the sand; they jump up to the feed hopper; they jump down again to the green feed trough; they run to the water; they hop up to the egg boxes (which, by the way, is the most important move of the day) and after depositing their board bill and rent plus the extra profit, they jump down and up again to the perches for an afternoon rest, or stretch out in the afternoon sunshine, which comes in thru the western window. Their

WOOLERY FARM

American Bred-to-Lay White Orpingtons
MATING LIST FREE
WOOLERY FARM, Box A, Bloomington, Indiana

whole day is given up to their individual care, and with all the necessities before them, all the time is available for making eggs, and with their morning sun bath, and noon sun bath, and afternoon sun bath, and free from draft or foul dusty air, they either have to "lay or bust."

One acre of good fertile soil with plenty of cheap water is all that one family can handle without hiring help. This is one of the most intensive poultry systems in the world and makes it possible for people with small means to make a luxurious living on a little land, with health and independence.

With this system it is possible to keep one thousand hens on one acre and produce all the green feed which is absolutely necessary for any profit in poultry. With the rich soil and cheap water, fresh, crisp, succulent, green feed in the way of beets, kale, alfalfa and chard, cabbage or rape can be grown luxuriantly, and the tonnage produced on one intensified acre is almost beyond belief. One thousand well bred hens on one acre, han-

dled on this intensified plan, can be made to net above all expenses two dollars each or two thousand dollars per year. If more income is wanted, develop a second acre and double it.

Fresh, crisp, succulent green feed is the secret of success in egg production and if your acre is not fertile, and if there is no water for irrigation, success can never be attained. Any ambitious industrious person need have no fears if located on fertile soil with plenty of cheap water and home market, for these are the essentials of success.

It remains to add that my system is by no means experimental. It has passed that stage and stands today as a matter of absolute demonstration, and as such freely acknowledged by thousands.

I have tried it out for ten years, side by side with other systems and am satisfied that it has been my good fortune to attain the desired result—the largest and steadiest egg production from the smallest acre consistent with sanitary conditions and healthy fowls.



FIRST PRIZE COCKEREL BOSTON, 1915
BRED AND OWNED BY D.W. YOUNG, MONROE, N.Y.

Young's Strain

S. C. White Leghorns

I HAVE NO OTHER BREEDS

Add another phenomenal win at the Madison Square Garden Show, January 1st, 1918:

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| 1-2-3 Cocks | 1-4-5 Hens | 1-3 Pens |
| 1-2-3-4 Cockerels | | 2-3 Pullets |

AND EVERY SPECIAL PRIZE OFFERED

They have won 1st prizes in every state in the Union and in every country in North and South America. This strain is acknowledged thruout the world as being the standard for all the Leghorns and the leaders of heavy layers. They have always been bred and selected for heavy laying alone and the show specimens have been chosen from the layers. This is the only original line-bred strain of utility and exhibition Leghorns in America today. Why not come to headquarters and get the best? Hundreds of grand cockerels that will improve your flock for utility and exhibition purposes for sale at reasonable prices.

MATING LIST—describing 65 pens and price of eggs—FREE

D. W. YOUNG

Box E-12

MONROE, NEW YORK

Horticulture for Poultry Keepers
 Conducted by Thos. F. Rigg, Iowa Falls, Iowa.

I AM writing today in my hotel in Washington, D. C. Here one keenly realizes that we are engaged in a great war. The city is crowded with people from every state in the Union and from foreign countries. The very air is charged with war and preparation for war. War dominates all talk in hotel lobby and street, in the home and elsewhere. It is evident that official Washington is preparing for a long time war. It is also evident that the production of grains and other eatables is one of the chief concerns of the powers that be, and that every effort will be made to induce land owners to plant increased acreage. The whole city is loyal to the administration, and here the food conserving laws are being obeyed to the letter.

* * *

Am getting anxious to be at home and take up the work in the garden and the orchard. Will have that pleasure April first and I know I will enjoy it as much as I have my trip this winter.

* * *

I have read your advice in American Poultry Journal to many readers and I now think of you as a personal friend, because of the interest you show in your replies. I would like to add my request for some information. I have recently purchased a farm in Hamp-

den County, Massachusetts, and as the place is devoid of fruit, would like to have you advise on what to plant. If possible, I intend to grow a little of most everything in the fruit line grown on the ordinary farm, with the idea of keeping our home supplied first and the surplus, if any, for market.

My wife and I wish to start with about the following number of trees, berry bushes and vines: 50 apple, 12 pear, 6 cherry, 12 plum, 50 raspberry, 25 currant, 300 strawberry, 6 grape, 50 rhubarb, 100 asparagus, 12 horse radish. Will you kindly inform me if you think we have enough of each variety? The farm has about thirty acres of cleared land, including pasture, some of which is hilly. Also what are the best varieties of the fruits named?

Massachusetts.

H. C. Hall.

In apple you will want one or two Duchesse for your own use. This is an early apple and dependable. Would also plant one or two Yellow Transparent. For the main planting of apples, for a commercial orchard, would plant McIntosh Red and Wealthy—two-thirds McIntosh Red, the remainder Wealthy. These varieties are hardy, high quality in fruit and always command a big price on your markets. One of the most noted apple authorities in America, a man connected with the Massachusetts Agricultural College, last season planted a large orchard to these varieties. *He knows.*

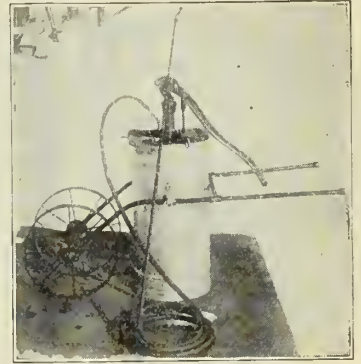
In pears would advise Lincoln and Seckle. These two varieties are of the best quality. Lincoln is, in my opinion,



First prize Rose Comb Ancona cock at Madison Square Garden, New York City. Owned by H. Cecil Sheppard, Berea, Ohio.

Ripley's 3-in-1 Portable Sprayer, White-washer and Disinfectant Machine

Cog gear handle, brass cylinder and valves. Satisfaction guaranteed. The best sprayer made for spraying trees, vines, plants, or whitewashing buildings, disinfecting, etc.



Write for catalog of sprayers and poultry supplies. **RIPPLEY MFG. CO. Box A GRAFTON, ILL.**

For Potato Bugs And Blight use

SULFOCIDÉ and CAL-ARSENATE

—a new combination which bids fair to replace the old Lime Sulphur-Arsenate of Lead and Bordeaux-Leadmixtures, in both orchard and garden.

It is more powerful and much less expensive. 1 gallon and 4 1/2 lbs. makes 150 gallons of spray.

Send for circular

B. G. PRATT CO., Mfg. Chemists
 50 Church St. Dept. 47 New York

BROWN FENCE
 150 Styles
 21¢ Per Rod Up

FREE!

Save Big Money on Poultry Fence! Get my big new Book Free! 150 Styles. Also Gates and Steel Posts. Direct from factory, freight prepaid.

SEND ME YOUR NAME, NOW!

Brown Poultry Fence outlasts chicken netting 5 times, yet costs no more. Heavy **DOUBLE GALVANIZED** Wire close spaced. No top or bottom boards needed. Get Free Book and Sample to test.

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 DEPT. 830 - CLEVELAND, OHIO



MASON'S MOVABLE POULTRY YARDS

All Steel. Comes Complete—Fence, Posts, Gate—Everything ready to put in place. Easy to put up and take down. Any size wanted. **SOLD ON A SIXTY DAYS FREE TRIAL.** The prettiest and most durable yard you can buy. Send for Catalog and Low, Direct Factory Prices. **MASON POULTRY FENCE CO., Box 46 LEESBURG, O.**

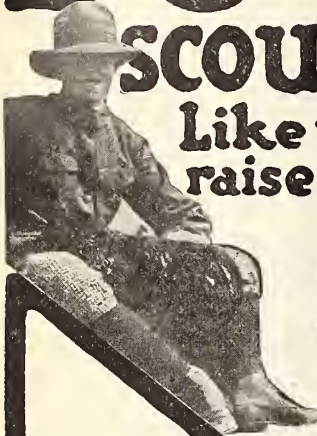
TEETH AND TONIC FOR HENS

PEARL GRIT the "Double Purpose Grit" keeps hens healthy and makes them lay. It grinds and prepares the food for digestion and supplies the necessary shell-making and egg-building elements. Write for free booklet. **THE OHIO MARBLE CO.**
 74 Cleveland St. Lima, Ohio

BOY SCOUTS

Like to raise my

ANCONAS



Scouts Tackle Only "Live" Propositions --

the average hen gets nothing but a "What? That?" from him. But thorough

SHEPPARD'S FAMOUS
ANCONAS

as shapely and alert as greyhounds—dappled white on shimmering green-black feathers—"cocky" and alert—systematic and business-like about laying eggs—big, white "uns, too!—winter, spring, summer and fall—so that the fellows MAKE MONEY from them—they are the birds that MAKE A HIT with the ambitious, wide-awake chap!

Here's a hen that holds the world's egg production record (331 a year) for a single bird—she's an ANCONA!

Here's a flock that holds the world's record of 256 average for a flock—every one is an ANCONA!

Here's the strain that has copped off about all they could for eleven consecutive years at Madison Square Garden—concluding with nine first prizes from a possible ten and a couple Gold Specials this year—they're ANCONAS!

My free book tells all about them. It's an educational, helpful volume.

EGGS FOR HATCHING
BABY CHICKS
TRIOS AND PENS

All Famous Ancona Stock

H. CECIL SHEPPARD
President International Ancona Club
M-2 BERE, OHIO



Read the other "Ad" →

the best all around pear in existence. Out in Iowa where we could not raise pears on account of the blight, the Lincoln is fruiting every year. It has never blighted on my place in twenty years, has withstood thirty-seven degrees below zero. It is an early fall pear, is large and simply delicious.

Plant Montmorency cherry. It is the best of all sour cherries. I do not feel able to advise you as to what variety of plums to plant. The plum is a fickle fruit and very subject to disease. Also some varieties will not stand dampness when in bloom. I advise you to consult your state authorities in this matter.

The Cuthbert is the best red raspberry. Many new kinds have been offered and boomed, but the Cuthbert still remains the best. Cumberland is decidedly the best black. I think the Royal Purple will make you more money than any other raspberry. It is an enormous cropper. Berries are large and very fine in quality.

Diploma and Red Cross are far and away the best currants.

You would do better to consult growers of strawberries in your immediate locality. Of all small fruits, the strawberry is the most fastidious as to soil.

In my estimation six grape vines are not enough. For home use, if you plant six vines make it one Moore's Early, one Campbell's Early, two Warden and two Concord.

In Rhubarb, the common sort, obtainable in the market is as good as any.

I have tried all varieties of asparagus and find the Palmeto to be the best.

It seems to me that you are making a mistake in not planting more heavily of small fruits. Of course I am going on the presumption that there is a good market for small fruits near you. If this is true you certainly should plant small fruits quite extensively. You will find if you have a market for strawberries, raspberries, currants, etc., that these fruits will be very profitable. They will give you a quick income. Investigate this branch of the business carefully.

* * *

Will you please tell me what to spray my grapes with and when to do it?

For a few years past they have been so wormy as to be almost worthless. I keep bees. Will the spray on grapes poison them? Where is a good place to buy prepared sprays? In the American Poultry Journal you often speak of using "Black Leaf 40." I have been unable to find this spray for sale in my town. Illinois, Harvey P. Hunter.

Spray the grapevines with sulfocide just before buds start. Again during the period that the grapes are making a growth the size of a pea, giving about two sprayings about this period. It may be necessary to repeat this spray during the season if the season is favorable to fungus growth and rot.

To keep the vines from the worms to which you refer, spray with arsenate of lead, powdered form, one and one-half pounds to fifty gallons of water. Use this first when vines come into full leaf and again when grapes are nearly full size. This material so used will not injure the poultry, if any, which may feed in the yard, nor will it injure your bees.

You can secure all spray material from any seed store, or they will send for it for you. Black Leaf 40 is a most valuable spray material. You can get it of any of the well known seed houses in Chicago. Try Vaughan's Seed store in that city.

Your local seed house or druggist

YOU WILL

-they don't
"lay down"
-they just LAY!



You Don't Enjoy a Losing Game

"Slacker" hens take most of the pleasure out of poultry raising and are an expense rather than a paying proposition.

What makes a "slacker" hen? It's not her fault—don't blame her.

You've got to have skillful, patient breeding behind the bird—breeding for systematic seeking of the nest, for the "laying habit"—breeding for sufficient vitality so that the small body may be drained daily, if well fed, without great depreciation.

Look at the hen as an "egg machine"—and thousands would be on the "scrap heap" today.

There is something Efficient

about the Ancona—about her trim appearance—her thorough bearing—that appeals to the eye—and, much more, appeals to the pocket-book, after her merits have been proven.

Anconas do not "lay down"—they JUST LAY. Not "gold bricks" either, but big white eggs. You can bank on the Ancona as the bird to help solve your food problem. You can afford to EAT EGGS when Anconas lay them. My book tells the story.

EGGS FOR HATCHING
BABY CHICKS
TRIOS AND PENS

All Famous Ancona Stock

H. CECIL SHEPPARD
President International Ancona Club
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* * *

Please tell me where I can secure cutting of Norway Poplar?
Nevada.

Chas. H. Keas.

You can secure these cuttings from any nursery in the midwest. Write to Lake Nursery Co., Shenandoah, Iowa.

* * *

In February issue of American Poultry Journal I read your reply to R. H. Milliman, in which you advise the investigation of the lands in Piedmont Valley, Virginia. May I trouble you for detailed information concerning this valley?

Your reply to Mr. Milliman seemed so honest and trustworthy that I was led to communicate with you. What is the climatic condition? Rainfall? Heat and cold? Elevation? What crops successfully grown? Is it a good dairy, hog and poultry place? What kind of markets?

Any and all information will be appreciated—both good and bad conditions. The Garden of Eden had a snake.

Colorado. L. E. Greene.

1. The annual rainfall is 55 inches, falling the heaviest during the spring and summer months, when most needed by crops. The temperature rarely plays the pranks it does in the north. Zero weather is rare. In summer there are few days when it is oppressively hot. In the higher elevations the weather is not so warm as in the lower levels and the nights are delightfully cool. The Piedmont section extends from the mountains down to where it reaches the so-called middle section. The elevation runs from 300 to 1,200 ft. above sea level, with higher elevations in the mountains.

2. All the main agricultural crops are grown here, corn, wheat, oats, hay, etc. It is one of the finest grass and grazing sections in all America. As a dairy section it is not surpassed. Hogs and poultry do well. The markets are good.

3. As a fruit section it cannot be beaten. I believe it to be the coming fruit section of this country. In all, it is a much favored section.

* * *

I am a business man, have made some money at it and can continue to do so, but I am utterly sick of the whole thing. We moved out on a small country place a year ago and we like it so well, that we sometimes think we would like to get a larger place where I could put in all my time at it.

Now suppose I should buy forty acres and put in apples. Could I by planting between the rows, gardening, keeping chickens, and working hard all the time make a living off the place and provide I properly cultivated, fertilized and sprayed the trees, in the course of five or ten years, would I have a fair chance to make some money from the venture?

This is a rolling country underlaid with limestone. Would I have as much of a chance here as I would in Arkansas, Tennessee or North Carolina? If so, what varieties of apples would you suggest for a commercial orchard? Can I get the advantage of a short course in the planting and care of fruit trees at our State Agricultural School?

Indiana. P. M. S.

I am glad you put your question as you did—"would I have a fair chance to make some money from the place?"

I think any man who will properly handle a 40-acre orchard proposition is assured of a very handsome income after the orchard begins bearing. Your land is evidently well adapted to the growing of apples. I advise you to remain where you are. Indiana is growing apples as profitably as any state in the Union. Would advise the planting of Delicious and Stayman. An orchard of these varieties will be very profitable. You can inter crop the orchard and make a good living therefrom until the orchard comes into bearing.

You can certainly take a short course in horticulture in your State College.



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We would very much like your advice on which of the following trees will suit our locality. Also when best to plant. Two apple, two plum, two peach, one pear, one cherry. We only have one acre of land and would like to plant the above trees for home use. Michigan. Walter Dunmore.

Plant one Duchess and one Wealthy. Can't you plant two or more winter apples? If so, set out the Delicious and Senator, at least one of each. In plums would advise Endicott and Surprise. Early Elberta and J. H. Hale would be my choice of peaches. You ought to have a tree or two of Krummel October, a very late peach. Plant Lincoln and Seckel pears. The Montmorency is the best of all cherries.

My January American Poultry Journal went astray, in fact it did the second time and so only reached me yesterday with your reply to my question concerning berries.

I wonder if it would be asking too much to ask for further particulars about 'rooting Columbian berry canes? We have eight bushes that we have quite strong hopes are different from the rest and sufficiently hardy to stand our winters.

If this should prove to be the case, we will want to get as many bushes started from them as possible. Altho we shall try the Royal Purple, I think the late ripening will prove an objection with us, as it will bring them in the blackberry season.

1. What time in the fall do you lay the canes down, about the usual time for covering the tips, say September first or not until the leaves fall?

2. You say "break half way thru the cane just below each fruit bud." I find the buds from one to two inches apart from the tip to about half way down the cane, then further apart. Would you break the cane as close as this?

3. Would this method be successful if one covered the canes early in spring?

4. Will it work with Royal Purple as well as with Columbian?

5. Do you know anything of the Cardinal Purple berry? E. B. Cass.

1. I lay down the canes in September. By so doing they make for themselves a fine hold upon the ground, or rather properly settle and adjust themselves to the required condition.

2. I gently break the cane just below the buds. I put under ground the buds which are to take root. Would not break cane nearer than six inches to one foot from tip end.

3. Yes.

4. Yes.

5. Have seen the Cardinal growing in Missouri. It is not conceded by growers to be the equal of Columbian or Royal Purple.

I have an orchard near Spokane, Washington, which I planted and which is now past ten years old. I have four commercial varieties in this orchard, namely: Wagener, 84 trees; Jonathan, 70 trees; Rome Beauty, 56 trees, and R. I. and Northwestern Greening, 56 trees.

Now in common with most beginners, I planted my trees too close—25 ft. each way. Consequently the Greening and Jonathan now have the tips of branches meeting. Where this orchard is located we do not practice irrigation and since we only have from 12 to 15 inches rainfall annually, these large trees are now showing the effects of lack of moisture.

I would like your advice on this matter. The proposition is this: The Greenings, while they are a fine apple and give a good crop, are not the most desirable commercial variety in this section, so that if possible I would like to replace this variety with something else more desirable—probably Delicious. Could this be done by pulling out every alternate Greening and planting the new variety at the proper distance—say 35 ft.? In this way I would continue to get some benefit from the Greenings until the new variety would come into bearing. I also thought of top-working the Greenings, but this would not remedy the close planting and to take out every alternate tree would make the distance too great. This will also be true of the Jonathan, altho they are not affected so much yet as the Greenings. Washington. E. H. Hull.

I know of no better plan for the treat-

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ment of this orchard than the one you suggest. Think you will not miss it in planting Delicious. Senator is another variety especially adapted to your section.

Do not think of top-working Greening trees. The tree is a bad grower and subject to body disease.

* * *

The hotels in Washington are charging fifty cents each for grapefruit. This seems a very big price, after having been in Florida all winter where the growers are getting a price which does not admit of a big profit. I was down to the market this morning and found that apples are selling at a higher price by far than they were a year ago. As usual, the good to extra good sorts are scarce. Our old friend Ben Davis is in evidence and is selling at a good price. The South takes thousands of barrels of this variety each season. This is because they keep so well here, where most other kinds go bad quickly.

* * *

I wish to obtain some first hand information regarding Florida in general and Dade County in particular. It is the climate which I wish to ask about most particularly. I remember reading in some of your writings that Florida possesses the finest climate in the world for the production of citrus fruits and Avacadas. These are the fruits in which I am interested, particularly the latter.

In what essentials is the Florida climate superior to Southern California? I have heard that the Florida climate is very humid and that the rainfall is very heavy. Citrus growers in California claim that for best results the atmosphere should be dry with the ground moist. Altho I have observed that the weather can be too hot for citrus. Two years ago the crop was very seriously damaged by extreme heat in the month of June. What has been your observation in this respect?

Now what are the real facts in regard to humidity, absence of frost, etc., in Dade County? Is the whole county adapted or does the climate just lie in spots? In California the citrus belt is in patches, some of them lying at widely different latitudes, and none of them to my knowledge are frostless.

Is the soil of Dade County all adapted or is it spotted as in other sections?

Is the soil and climate fully adapted to the Avacada, that is, is the crop sure? In California I know of no locality where it is a certainty. There is always the frost danger. Can olives be grown in Dade County successfully?

I am located in the foothills of the Sierra Nevada mountains. The weather is too hot and dry in the summer for apples and too cold in the winter for citrus and olives. I have no water for irrigation. I have been here five years and am not very well pleased with the location. And in Southern California prices of land and water are so high and the stability of the climate so uncertain that it is pretty much of a gamble to invest there. I have had the Florida bee in my bonnet for some time and when I read that you were in Miami and would enlighten folks, I jumped at the chance to write you.

You might be able to get some printed matter from the Chamber of Commerce or other sources which would fill the bill.

California. J. D. Reeder.

I am not going to make the attempt to decide the question which will never be settled—which has the better climate, Florida or California. That is and must remain a personal opinion. Florida, like

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Our pen No. 110, 5 Leghorn pullets, lays 105 eggs this January; an average of 21 eggs per pullet—putting our pen 30 eggs ahead in the contest to date.

Our entry of five Wyandotte hens in the North American Egg Laying Competition, just ended, won First Prize and Three Silver Cups. These hens laid 1165 eggs, having these high individual records: 294-267-221-220 eggs. Contest under government supervision.

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over all varieties. \$25.00 Southern Sweepstakes. Ex-President's Silver Cup best pen. At Arkansas State Fair, Ft. Smith, 1917, 1-3 cock, 1-2 cockerel, 2-3-4 hen, 1-2-3-4 pullet, 1 old pen and 1 young pen. Silver Cup, Champion Pen. Cup, best pen American class. At Greater Chicago Show, 1918, 3rd old pen in a very strong class. Eggs and Stock for Sale. Write us.

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California, possesses a wide range of climate, so far as temperature is concerned. On the coast the climate is delightful the year thru. As to the moisture, can say that in my opinion California is on the whole dryer than Florida in that there is less humidity in the Golden State on the Pacific.

The climate of Dade County in Florida is not as congenial as it is on the coast. The summers are warm, the winters delightful. The soil there is a sandy loam, underlaid with clay. I should say that the humidity would not be oppressive in that county.

I cannot give you any figures on the annual rainfall in Florida at this time, as I have no report with me. The land in Dade County is generally good, but is spotted, as are all the lands in all the counties of the state. Not all the land is suitable to the profitable production of the Avacada pear.

You must bear in mind that the commercial production of the Avacada pear is in its infancy, that as yet no variety wholly suited to the climate of Florida has as yet been developed. It came from a seed brought from Cuba, and grew on the farm of Howard Trapp, south of Miami. I photographed the original tree this winter. I was informed by Prof. Simmons, who is in charge of the U. S. Experimental Station at Miami, that the freeze this winter killed or seriously injured Avacada pear trees as far south as Homestead, Florida. Homestead is in the extreme southern part of the state, so you see there is no frost line in Florida, notwithstanding the claims of the land agents.

The Collins grove of 60 acres of Avacadas, on the ocean beach, near Miami, were not injured by the freeze, and will this year bring the owner a large fortune. They stand in ocean bank sand, pure sand, and are annually bearing a big crop. A few miles from there I have seen Avacada trees planted in the Miami rock soil doing nicely and bearing big crops. The truth is we really know but little as to the requirements of the Avacada pear tree. Prof. Simmons showed me 34 varieties of trees which were gathered in Guatemala by United States collectors. Out of these he hopes to secure some suited to the Florida climate and which bears good fruit at the proper time.

The development in the Avacada pear has been largely confined to the country near Miami, and to the south of there. It remains to be seen whether the central part of the state and the west coast are agreeable to this tree.

I think that beyond all question the best citrus belt in all Florida is that part of the state beginning at Fort Myers and running north about 70 miles.

There are a number of your questions which I cannot answer, for the reason that they are unanswerable.

I am in receipt of a letter from John Olesman, Minnesota, in which he says he has sent me a few potatoes for seed. Of this potato he says:

"Last spring I planted 3 1/4 bushels of these potatoes. Out of the 3 1/4 bushels planted I sold potatoes for \$102.50. Also stored 8 1/2 bushels for seed. Prices were high, from \$1.75 to \$3 per bushel, but it was the one time the early bird got the worm."

I thank Mr. Olesman for this seed, shall plant it all and will report results.

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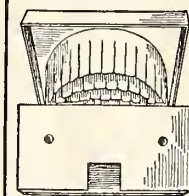
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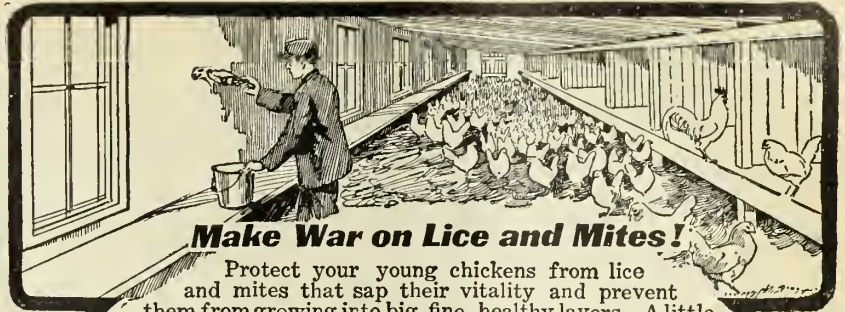
I am very much interested in the betterment of our varieties of potatoes and ask the assistance and co-operation of all readers of AMERICAN POULTRY JOURNAL to that end. If you have a potato that is earlier or better or a heavy yielder than other potatoes in your section, I will be pleased to have you send me one or two tubers for trial in my grounds.

* * *

I had intended to say something in reply to the article by Dr. Sanborn in *Poultry Herald*, but Dr. Woods so well touches upon the ridiculous statements of Dr. Sanborn that there remains nothing for me to say. Every winter I see so many men suffering from what Dr. Woods terms Floriditis that I can well understand what ails the good Dr. Sanborn. The only dangerous thing about this disease is that while the fever is at its height, the patient may induce some innocent friend to believe there is truth and fact in the wild assertions so vehemently made by the sufferer.

* * *

In answer to F. K. O'Conner, New Mexico: You will make no mistake in planting the Senator apple. There are some fine orchards of this variety in your state. These orchards are very profitable. You ask about the new apple—Golden Delicious. I would advise that you try out a few of these trees. I certainly should not plant heavily of any new variety until I had tested it out were I in your place. I do not think it would be wise for you to plant heavily of early summer apples.



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Originator "Sterling Strain" Buff Orpingtons

ENDORSED, RECOMMENDED AND USED BY AMERICA'S MOST SUCCESSFUL POULTRY RAISERS

Licene

Exterminates all Chicken Lice as if by Magic

When such breeders as Mrs. Helen Dow Whitaker, E. B. Thompson, Dr. N. L. Smith, A. C. Hawkins, O. F. Mittendorf, Prof. T. E. Quisenberry, Len Rawnsley, U. R. Fishel, A. A. Carver and thousands of other big breeders that have had years of experience in raising poultry, endorse and use a preparation as the best, it must have exceptional merit, and will do all that is claimed for it.

LICENE Makes Hens More Profitable

No hen can lay her best when tormented by lice. Kill the lice and watch the increase in your egg production. E. B. Thompson, breeder of Barred Rocks, writes:

I have tried LICENE with the very best of results; it is a most excellent preventive of lice and a quick exterminator. LICENE should have a great sale to poultrymen who must appreciate its value after being tried.

LICENE Cheapest Lice Killer Known

Price, 60c a Tube, Postpaid Sufficient for 150 to 200 Fowls

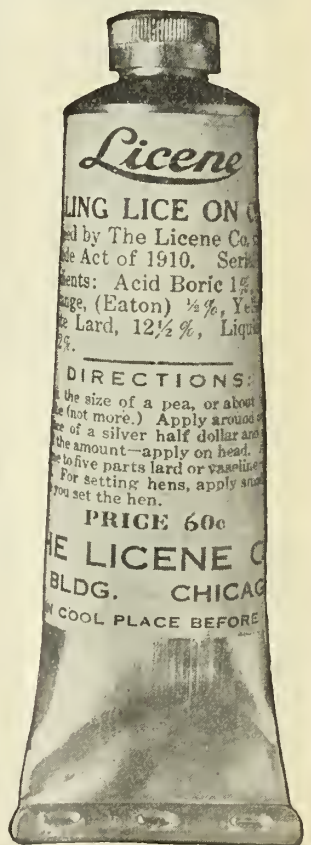
LICENE is applied twice a year, but many report that they have found one application a year sufficient. When you stop and consider that one tube is sufficient for 150 to 200 birds, you must realize that LICENE is cheaper than lice powder and liquid lice killers. It is also more conveniently handled and more easily applied, saving time, labor and money, making LICENE not only the best but cheapest lice exterminator the world has ever known. Put up in collapsible tubes, which prevents waste. Remember LICENE will not injure the birds in any way or destroy fertility of eggs, so with our positive guarantee you take absolutely no risk in giving LICENE a trial.

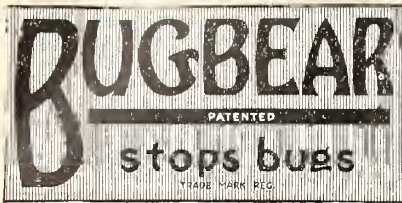
Positive Satisfaction Guaranteed or Money Back

If Licene does not destroy every louse and "nit" (egg of a louse) or does not clean scaly legs on your chickens, or if applied on sitting hens, and does not prevent head lice on chicks—you are the judge—we will refund your money if you notify us (or our agent) within one month after receiving Licene and no questions will be asked.

The Poultry Doctor FREE This little book is worth its weight in gold to any one raising poultry. Thousands of poultry breeders are following its suggestions with success and profit. It contains 16 different tested and proven formulas of remedies for diseases common among fowls. It is invaluable to the beginner and experienced breeder alike. Remember it is absolutely FREE, so just send your name and address for it.

THE LICENE CO., 1500 Pontiac Bldg., CHICAGO, ILL.





No More Red Mites

A ring of **BUGBEAR** around the end of each hen roost will keep your hens free from Red Mites all summer. It prevents mites from crawling onto the roosts from the walls. It kills every insect and disease germ that it touches. Harmless to hens. **BUGBEAR** is not sticky and will not evaporate or grow hard. It lasts for months and months.

Send for Sample

BUGBEAR keeps crawling bugs out of trees. A ring of **BUGBEAR** around your garden will keep out bugs and worms that can't fly.

Sold by poultry and garden supply dealers everywhere. If no dealer near you, send 25c for large sample can—enough to protect three hen roosts all summer. Our free book tells how to rid hen houses, trees and gardeus of crawling bugs and worms.

Prices

1-pound can, 45c
5-pound pail, \$2.00

Mail the coupon before you forget the address.

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Please send me your new, free book on **BUGBEAR**. Also mail me \$..... worth of **BUGBEAR**, for which I enclose money in payment.

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Would you invest 25 cents for several dollars worth of knowledge on Squabs? We have a limited supply of Squab books on hand which we are practically giving away. Send for your copy of "Money in Squabs," price

25c

American Poultry Journal Publishing Co.
523 Plymouth Court Chicago, Illinois

Your articles are always read with great interest and pleasure because I know you always tell the real conditions. At least I know this to be true of your articles on Florida, having spent four years there. In your answer to a correspondent in March issue you speak again of Southwestern Virginia as being very desirable farming land.

I have looked over the farming land in this section and find available land very poor and high and very high in price, and from some very little experience with the soil I find it very unproductive compared to the north, which is the native country of both myself and wife. Now our means are very limited, not over \$1,500 and \$1,700, but my health is not very good and I want to get on a small farm of say 40 or 50 acres where I could raise grains, etc., and keep cattle, hogs, sheep and poultry. I know you are a busy man, but if you could find time to fill out the answers to the list of enclosed questions, I would deem it a great favor.

1. What county, counties and towns would you advise me to visit?
2. Can you tell me about the relative values of lands there?
3. Are there roads thru there available for auto travel?
4. We have no children, so schools do not enter into the proposition.

W. L. Dunton.

1. Southeastern Virginia is more a cattle and grazing locality where the man raising and feeding cattle on a large scale has exceptional advantages. For the man who wants to operate 40 to 80 acres, as a home farm, the Piedmont or valley of Virginia is more suited to his purpose. I would advise my correspondent to make a careful investigation of Clark County, Virginia. It is one of the most favored sections in all of the United States in the way of production of grasses, clovers, etc. It is, too, a splendid farming section. Here cattle and hogs and poultry can be raised profitably. It is near splendid markets.

2. Lands there are somewhat higher than in less productive regions of the state. Still fine farm land in Clark County can be bought at from \$50 to \$75 per acre.

3. Roads are good. Yes.

4. Be careful to locate in a community where the social conditions are right. Land in a community without schools and churches would not cost much and would be worth less than it cost.

Hens Should Not be Hurried to Market.

"A rush of too many fowls to market as soon as the restriction against selling laying hens is removed, may result in food losses," says the United States Department of Agriculture. "Think twice before selling a hen that is still laying. Green food is becoming more plentiful and the demand for eggs continues. Universal marketing of fowls may react on prices as well as cause spoilage of dressed poultry."



51 Prizes Madison Square

Rose and Single Comb

Brown Leghorns

Records, 200 to 266 eggs. Big birds, large eggs.

Rose Comb Whites. 244 egg line. Eggs large as Single Comb Whites.

Single Comb Whites. 288 egg line, large white birds, large eggs.

Barred Rocks. 270 egg line.

S. C. Reds. 243 egg line, fine large birds and large eggs.

White Wvandottes. 245 and Silver cup. Eggs \$2 to \$7 for 15; \$10 per 100. Catalog.

W. W. Kulp, Box 70, Pottstown, Pa.

BOURNE LEG BANDS

Are Easy to Use. They are made with large numbers printed on colored celluloid held in an aluminum band.



They are easily read from a distance. Numbers up to 300 are printed on white, red, green, cerise, blue, yellow and pink celluloid. From 301 to 1000 on white only. Band will withstand weather and water. Sizes for all breeds; also for pigeons.

BOURNE MFG. CO.

231 Howard St. MELROSE, MASS.

SINGLE COMB

Rhode Island Reds

that have been winners in some of the leading shows such as State Fair, State Show, Quincy and Decatur. Stock and Eggs in season. Mating list s now ready.

HARRY McPEEK R. F. D. 1 Moweaqua, Ill.
Formerly McPeck & Sparling

BROODER

For \$2.96, including heater, you can build the simplest, most efficient, and most satisfactory brooder ever made. **\$2.96**

Wind-proof; fire-proof; rat-proof; fool-proof. Can be built by anyone in an hour, with saw and hammer. Plans 10c.

I PUTNAM, Route 505 ELMIRA, N. Y.

Mention the American Poultry Journal when writing to advertisers.

My Silver Campines Again Champions!

at the COLISEUM, CHICAGO, Dec. 4-9, '17

I won the Sweepstakes Championship for the 5th successive time

Cocks	Hens	Cockerels	Pullets	Old Pen	Young Pen
1	1	2	1	2	1
2	2		2		
3	3		3		

40 males placed at the Coliseum Show during the last four years.
104 females placed at the Coliseum Show during the last four years.

NOW GET THIS: The breeder who has only five, ten or fifteen exceptional Campines is not going to supply many customers with hatching eggs from prize-winning fowls. But when a breeder has literally Scores and Scores of Big Show Winners, as I have, the customer is pretty certain to get what he pays for in the way of hatching eggs and day-old chicks. Isn't this reasonable?

HATCHING EGGS from the finest exhibition Silver Campine matings:

Per Sitting of 15 eggs.....\$10
Three Sittings for.....25
One hundred eggs for.....50

HATCHING EGGS from other pens headed by Coliseum winners, but not Bl. Ribbon males:

Per Sitting of 15 eggs.....\$ 5.00
Three Sittings for.....12.50
One hundred eggs for.....25.00

Write me today for information.

FRANK E. HERING Desk B SOUTH BEND, INDIANA



Questions and Answers
 Conducted by
 Prince T. Woods, M. D.

Questions about poultry are answered in this department free for all readers of American Poultry Journal. Where answers are desired by mail, a stamp for reply is requested. Address all query letters to the managing editor, Dr. Prince T. Woods, Lock Box 4, Silver Lake, Mass.

Off-Colored Wyandotte Chick.

Q. Last spring I had four good White Wyandotte pullets mated to a fine cock. I raised some splendid pullets and two fine cockerels. One of these cockerels was mated to the four hens from last year's pen. Some of the chicks hatched from eggs from this pen are black. Would like to know if there is such a thing as breeding back to cause this and if the way they were bred made any difference? The cock I bred last year was from a breeder who is supposed to have fine stock. Last year's chickens came all white. They were not on free range, so could not get with any other chickens. Can you tell which side was to blame, the cock or the hen? Would you keep these breeders or would you get rid of them and start with a different flock? Or would you advise another cock bird?

Lima, Ohio.

C. A. H.

A. It is not unusual to get some dark chicks from some matings of White Wyandottes. Some of the best strains of Whites were started with sports from the Silvers. We would not worry about it nor would we get rid of the breeding birds. Save the best white chickens of this year's flock to breed from. Try mating some of the pullets with cockerels and mate others with their sire. Also mate best cockerels with the four two-year-old hens and about six of the best yearlings. Use the off-colored chicks for table purposes when they are big enough.

Prolapsus of Oviduct.

Q. Am having trouble with three of my Ancona pullets. The egg bag comes out and

is swollen so it will not go back, and they are badly swollen about the vent. They have been laying heavy since the first part of December. Is there a cure for this or had I better kill them?

Marion, Ohio.


E. I. P.

A. Prolapsus of oviduct, with severe inflammation and swelling, is difficult to cure, and it may be wiser for you to put the birds out of their misery instead of attempting to treat them. The trouble is not uncommon among heavy layers of good sized eggs. Poor grain, or smut-grain is often a contributing cause of this trouble. It is best prevented by feeding an abundance of greens and only sound, sweet, wholesome food.

If parts are picked and torn, deep purplish and show much hardness and inflammation. We would not attempt treatment. It would be better to kill the bird. If treatment is to be attempted, examination should be made to determine if there is obstruction of duct by an overlarge egg or broken egg. This can be done by exploring with a well-oiled little finger. Remove obstruction if found. Prepare a basin of warm water—not too hot to be easily borne on the wrist—to this add a very little borax. Hold bird's abdomen and vent in this warm bath for about 20 minutes. Then oil the parts well with warm sweet oil and endeavor to force them gently back into place. Keep bird quiet for a few days and feed soft food only.

Crop Inflammation.

Q. I had a hen that was stretching and twisting her neck all the time. Took her and worked her crop up a little and squeezed it all out clean. There was a very bad odor. When I put her down she fell right over and



Here I am!
 Start me right and I
 will pay you well.

Blatchford's
MILK MASH

produces a market fowl in two months
 or a layer in six.

It is a complete *milk-equal* baby food
 for all kinds of young poultry.

Prevents white diarrhea, bowel
 trouble and leg weakness

GROWS, MATURES or FATTENS

Write for particulars
 and prices.

BLATCHFORD CALF MEAL COMPANY
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Green Bone Cutter



also mills dry bone, corn,
 table scrap, etc. Mainly
 steel construction. Very durable.
 10 days free trial. Money back
 if it fails to please. Write for
 booklet showing mills for many
 purposes.

\$8

Springfield O. Mfg. Co., Springfield, O.



IDEAL ALUMINUM LEG BAND
 To Mark Chickens
CHEAPEST AND BEST
 12 for 15c; 25-20c; 50-35c; 100-60c.
 Sample Band Mailed for 2c Stamp.
 Frank Myers, Mfr. Box 40, Freeport, Ill.



1st Cockerel, Garden



White Rock "Squab" Pullets



1st Pen, Palace

THE WINNING LINE

Baby Chicks and Hatching Eggs Half Price

In the past month, we have made many shipments of Baby Chicks by *parcel post*. All have been delivered promptly and in good condition. After May 5th, Baby Chicks from our best matings—any of our breeds—will be 75 cents each in lots of fifteen or over. These will be shipped *prepaid* by parcel post, safe delivery guaranteed. Three thousand chicks are hatched here every week from America's best matings—winners in the show room and heavy layers in the egg-laying contest.



1st Pullet, Garden

- | | |
|--|-----------------|
| Baby Chicks from exhibition matings, any variety | - \$.75 each |
| " " " White Leghorn Utility Matings | - 15.00 per 100 |
| " " " S. C. R. I. Red Utility Matings | - 20.00 per 100 |
| " " " White Plymouth Rock Utility Matings | 30.00 per 100 |

Order from this advertisement



In 1st Pen, Garden

Chas. J. Fisk, Owner
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Wilburtha
POULTRY FARMS

27 River Road
 Trenton Junction, New Jersey



Chicks and Eggs

At Reduced Prices

After May 1 we sell eggs and day-old chicks at reduced prices. May hatched chicks will lay in October or November, the June hatched in December, and will make just as good winter layers as earlier hatched chicks.

We can furnish chicks from 200 to 230-egg stock early in May—25 chicks \$7, 50 for \$13, 100 for \$25, 1,000 for \$200. From 230 to 264-egg strain, 25 chicks \$9.50, 50 for \$18, 100 for \$35, 1,000 for \$275. Utility chicks, 25 for \$5, 50 for \$9.50, 100 for \$18, 1,000 for \$160. Safe arrival guaranteed.

We can fill all egg orders promptly, and we guarantee fertility and safe arrival. 230 to 264-egg stock, 15 eggs, \$3.50; 100 eggs, \$16; 1,000 eggs, \$135. 200 to 230-egg stock, 15 eggs, \$2.50; 100 eggs, \$12; 1,000 eggs, \$110. Utility matings, 15 eggs, \$2; 100 eggs, \$9; 1,000 eggs, \$80.

Eight-Week-Old Pullets

One of the most satisfactory ways to start with Ferris Leghorns is to buy a pen of 8-week-old chicks. At this age the pullets weigh about $\frac{3}{4}$ lb. and the cockerels about 1 lb. The pullets can easily be distinguished from the cockerels and the trouble and loss that sometimes occurs in hatching and raising chicks is avoided, for at this age the birds are ready to go on the roosts, no longer require such close attention and are practically out of danger if given proper feed, a good coop and reasonably good care. We guarantee safe arrival anywhere. We can ship any time you want them after June first.

From 230 to 264-egg stock, 10 pullets and 1 cockerel \$33, 100 pullets \$225. From 200 to 230-egg stock, 10 pullets and 1 cockerel \$23, 100 pullets \$175. From good stock without records, 10 pullets and 1 cockerel \$18.50, 100 pullets \$125.

Exhibition Stock

We have purchased Frank E. Hering's entire flock of White Leghorns, including all of his Chicago winners. Eggs from these Chicago winners \$10 per setting. We can furnish winners for any show in the United States. Write for special circular describing our exhibition matings and quoting prices on stock.

THIS FREE CATALOG



tells all about Ferris White Leghorns and how we breed them for egg production; describes the eggs, chicks and 8-week-old stock priced above; and the liberal guarantee under which we sell them. Write for it—a post card will do—and let us show you why you should breed Ferris trapped nesting laying stock.

GEORGE B. FERRIS

905 Union Ave. Grand Rapids, Mich.

her neck kept trembling all the time. Put her in a place by herself and she lived three days. She seemed very thirsty. When she died I started to open the crop, but it was full of yellowish matter and the odor was so bad I could not stand it. My hens have been laying well all winter and have been letting them out of doors for the past two weeks (April 7). Today I have another hen that is acting the same way. What do you think is the matter?

Gardner, Me. R. F. C.
A. Hens have been feeding on some spoiled or moldy food causing crop inflammation. Make a search of premises to discover source of trouble. Keep the hens confined and feed only sound wholesome grain and greens. Be careful to avoid feeding spoiled soft corn.

Farm Journal's View of Egg Cost.

Editor A. P. J.—Enclosed find clipping from Farm Journal concerning cost of producing a dozen eggs. Comment is unnecessary for me.

Three Oaks, Mich. E. J. A.
Here is the item clipped:
"The poultry department of the Pennsylvania Agricultural College estimates that with grain at present prices it will cost from 12 to 22 cents to produce a dozen eggs. Unless the hens are actually sick or diseased, it is good business now to hold on."

We wish Farm Journal would demonstrate how it is done. One of the best managed and best equipped poultry farms of the East—handling flocks of close to 20,000 Leghorns—gives figures to prove that their average egg cost for 1917 was 45 cents per dozen for all eggs laid.

Difficulty in Getting Fertile Eggs.

Q. Can you inform me of any way that will enable me to get fertile eggs? My fowl are confined to a 20 ft. run, fed on commercial scratch and mash. The latter always before them. In the last four years I have not had a 15 per cent hatch. I have tried new cockerels and fed soaked oats. This year I lost the first 40 eggs incubated. One contained a chick in the 18th day of development, nearly all the others were clear.

East Providence, R. I. A. E. M.
A. Try cutting out the mash by leaving hopper open only two hours each day. Feed the scratch grain in deep litter. Feed plenty of green food. If birds are healthy and active you should get fertile eggs. If they loaf about and are overfat you cannot expect much of them. You do not name breed, but if birds are Asiatics, it may be necessary to pluck the heavy fluff.

Increasing Production.

Q. Our patriotism is appealed to to produce more and more poultry, but how in the world are we to do so when we have to produce it at an actual and substantial loss?

Little Compton, R. I. F. C. A.
A. Our personal opinion does not matter. Here is what the Hon. Henry Cabot Lodge, of Massachusetts, had to say, on the subject of increasing production, before the United States Senate, February 27, 1918:

"The one duty of any man, high or low, charged with the conduct of this war or any portion of it, no matter how slight, is to win the war and not to promote other measures, whether good or bad, which are purely social or political. That is the error which has been made both in the Fuel and Food Administrations. They started out with a proposition that they were going to lower prices and at the same time stimulate production. They were going to lower prices, not merely prices to the Government, but prices generally, whether for export or for domestic consumption, and at the same time they were going to stimulate production. There is only one thing, as human nature is now constituted, which will really and surely stimulate production, and that is the hope of making, first, a living, and, second, a profit. The experiment was an interesting one. Prices were reduced with a blare of trumpets in the newspapers; but, with a reduction of prices, we have had a famine in sugar and coal. * * *

"Criticism may be false, malevolent, and harmful, just as the falsehood which drips from the lips of interested flattery may be pernicious, but honest criticism may well be helpful. The man who tells the truth as he believes it in a proper way to those charged with responsibility must not be regarded as an enemy by the men to whom he offers the truth or the facts as he understands them. He is laboring for the same end. He had much rather give unstinted praise, but he would be false to his highest duty if in order to give praise he concealed the truth."

In the sound common sense to be found in Senator Lodge's remarks, will be found also

LOOK at the description of pen 1 from my mating list.

S. C. W. "Lay"ghorns

Pedigreed trapped stock.
PEN 1. This mating is a winner. Eleven yearling hens, daughters of No. 64, all sired by male No. 2, dam 278 eggs. These hens have records from 272 to 195 eggs. I have mated them to Ginger VIII, dam 288 eggs, sire's dam 278 eggs. This male is a high grade exhibition bird, as well as from a long line of heavy layers. Eggs from this pen, \$10 per 15 eggs; three settings, \$25.

After May 15th \$5 per setting, \$5 Eggs \$3 per setting. High record breeding hens and cockerels for sale. Our males are used at the Massachusetts Agricultural College, whose authorities highly commend them. My stock has paid me a handsome profit. With proper care it will do the same for you. Send for my mating list, but if you do not want to wait order direct from this ad. You will never regret it.

EMORY H. BARTLETT, Box 19, ENFIELD, MASS.

CAPONIZING and VENTILATION



Users of the "Burdin Design" Capon Tools and Draft Proof Houses are delighted. No failures. Satisfaction guaranteed or money refunded. Tools and instructions \$5. Book of Plans and details \$1. Both \$5.75. Add 10c to personal checks. Customers recent experiences with each, and descriptive literature 6c in stamps.

Order or write today

S. K. BURDIN - Toronto, Ont.
Suite 16 104 Stibbard Avenue



First pullet Chicago Coliseum. First pullet at Greater Chicago Show. Also best shape, color and champion female. Catalogue free.

O. B. Disenroth - Lawrence, Michigan

LIGHT BRAHMAS

WINNERS AT CHICAGO 1917
THE BIG KIND THAT WIN AND LAY birds that have standard type and color. The quality of my stock simply cannot be excelled and my prices for same are most reasonable. Eggs for Hatching from all matings, as they run, \$3 per setting. Stock for Sale.

JOHN BLANCHARD Columbus, Wis.



RAISING WAR BABIES?

The U. S. expects every one to do their bit, are you? Baby Chicks, S. C. White Leghorns, Eggs for Hatching. (Barron's and Trapped, of course). Some April and May dates still open. Catalogue free.

BAVY!! LE FARMS
"Utility Breeders," Box 1, Bayville, N. J.

Natural Hen Incubator \$3



No freight to pay. Actual hen controls everything. No lamp, no costly mistakes. Best hatcher in the world. Over 850,000 in use.
J. M. Potts, III, writes: "It is the best thing I ever saw for hatching chicks."
Another: "I got 607 chicks from 540 untested eggs." Thousands of other testimonials. Agents Wanted.
To reach the million mark in 1918 we will send you a Special Introductory Offer with our Free Catalog.

Natural Hen Incubator Co., Sta. H, Dept. 4, Los Angeles, Cal.

the solution of the poultryman's problem. The only way production can be increased is for the poultry keeper to be able to make, first a living, and, second, a fair and just profit.

Packing Eggs in Salt.

Q. I have heard that eggs can be packed in salt and kept the same as in water-glass solution. Do you recommend it?

A. Edmon, Pa. L. C. B. The salt pack (dry) has been used for a good many years. Also a lime water brine solution has been used for preserving eggs. We do not recommend these methods. We much prefer to use water-glass.

Diarrhoea.

Q. Have a cockerel that has been sick a week. He has diarrhoea, almost fluid with whitish lumps in it at times, empty crop in spite of a fair appetite, bluish black comb in parts, and he is very weak and wobbly. I have fed oats, barley, and buttermilk and have given him tonic, germozone in water and Venetian red in bran, but without results. Please advise what to do for him.

A. Emmons, Minn. R. M. T. Trouble was probably started by feeding poor or spoiled grain, either whole or ground and mixed. Better let the bird fast a day or two, giving only a few spoonfuls of scalded milk thickened with well-boiled white flour. Then get him gradually on to a moist mash of meal and middlings mixed with scalded skim milk. From this work slowly back to a hard grain ration.

International Poultry Federation.

Q. In April number you print an interesting and timely editorial on "How 'The Trade' Does It" and in it you mention the International Poultry Federation. While I am only a small producer I am interested in the work of an organization which will help a poultryman in buying and selling. Where can I get more information.

A. Altoona, Pa. J. E. Walton. Write International Poultry Federation, Topeka, Kansas.

Moldy Corn Causes Sickness.

Q. Practically all the scratch feed we can buy contains moldy corn of last year's crop, and the result is that the birds eating it are getting sick.

A. They lose color of their combs, get a crop that feels like a mushy sponge, the walls of crop seem to be two or three times thicker than natural. They lose appetite and also get diarrhoea. As soon as birds find out what causes the trouble, they stop eating the corn, and eat the other grain only, particularly those that are still well. The sick birds have a fever, crop and contents seem sour and they drink lots of water. I have tried using a little soda in their drinking water. Have not lost any birds yet, but it is checking the egg yield.

A. Highland Park, Mich. The only solution of this trouble is to get the birds on a diet of sound grain. Where this is to come from under present conditions, we do not know. We have had dozens of these complaints from Middle-West, South and East. The only thing to do is to eliminate the spoiled, moldy, soft corn from the ration, and feed whatever good sound feeding grain you can secure. A moist mash of boiled small potatoes mixed with middlings will help, but in our part of the country one cannot buy middlings in any quantity at any price. Try washing the grain with scalding water, then toast it dry in oven, without scorching, and see if ill results still continue. Possibly boiling the grain will help, but we do not know of any way to make spoiled grain wholesome.

Columbian Wyandottes and R. I. Reds.

Q. I am developing a 1000 acre stock farm at Aberdeen, Miss., and have not decided upon which breed of poultry to keep. We have always been farmers but have never paid much attention to poultry, keeping just "chickens."



A handful of money

doesn't go very far in most places these days, but it will buy more at Sunnyside Farm than any place we know.

Large production, big volume of sales and simplified methods which we have learned during our 28 years of breeding, pedigreeing and trapnesting for heavy egg production, enable us to sell at much lower prices than others ask for the same quality.

You can't afford to keep poor stock when you can buy at the prices we ask.

**Brown and White Leghorns
Barred and White Rocks, Reds
White Wyandottes
and Orpingtons**



Breeders, Hatching Eggs, Baby Chicks

Trapnested stock, birds that are bred to produce a profitable number of eggs even under present high feed costs, and that will put your flock on a solid foundation.

Bargains in Breeders:

180 to 200 eggs, each	\$3.00
210 to 248 eggs, each	\$4.00
Pedigreed 200-egg cock birds	\$5.00 to \$8.00 and up
Cockerels, according to records of dams	\$5.00 to \$15.00

Hatching Eggs

We sell you the same eggs as we use ourselves. They are from strong, vigorous breeders, and will hatch chicks that will grow and lay and pay. Safe delivery guaranteed.

From hens with records of 180 to 200 eggs	
100 eggs; any variety we have	\$10.00
200 eggs; any variety we have	20.00
From hens with records of 200 to 248 eggs	
100 eggs; any variety we have	\$12.00
200 eggs; any variety we have	24.00
Eggs from Show Birds and Record Layers combined	\$3.00 per 15

Baby Chicks

Do not compare our chicks with the ordinary farm stock sold by many firms. You will find if you buy 200-egg stock elsewhere, it will cost you a good deal more than we ask.

180 to 200 eggs, chicks, per 100.. \$25.00
210 to 248 eggs, chicks, per 100.. 30.00

Order from this ad or send for catalog

SUNNYSIDE POULTRY FARM, R. C. Blodgett, Prop., Box 1002, BRISTOL, VERMONT

S. C. W. Leghorn Baby Chix and Hatching Eggs

FROM THE GREATEST LAYING STRAIN IN AMERICA. ALL FORMER EGG RECORDS BROKEN THIS YEAR
We guarantee our quality cannot be duplicated for less than twice our price. We can still book a few more for May and June.

Baby Chicks \$18 per 100 Eggs \$9 per 100
After July 1st, Chicks \$15 per 100 and Eggs \$7.50 per 100

Excellently mated utility chicks at \$12 per 100, eggs \$6 per 100. Our thousands of satisfied customers insure your success. Catalog on request.

MAPLE SIDE POULTRY FARM U. A. Christiansen, Prop. LOST NATION, IOWA

**Silver Penciled Plymouth Rocks
Buff, White and Barred Rocks**

Winners at Chicago, New York, Boston, St. Louis and Illinois State Fairs
EGGS FROM THE FINEST PENS IN AMERICA, \$5.00 PER SETTING. Cat. Free

PETER C. JUNGELS - LOCKPORT, ILLINOIS

Chick and Egg Boxes at Reduced Prices



In order to clean up whatever stock we have on hand June 1, we will allow a liberal discount on all sizes. Write for List.

Western Box and Basket Co. Omaha, Nebraska

My \$5 and \$10 Eggs For \$3 per 15 After May 7. From all pens as they run.
Middlemarch Champion **Buff Orpingtons**
Jessie F. Gordon Box 535 Spring Valley, Minn.

Fashion Plate Buffs

We have the finest lot of birds mated that we ever owned—this means much to you. \$15 eggs for \$10, \$10 eggs for \$5, \$5 eggs for \$3 per setting of 15; 50 from well mated yards, \$8, 100, \$15. Order direct from this ad. Catalog Free.

A. E. MARTZ Buff Orpington Specialist and Judge Box A, ARCADIA, IND.



Beware of Imitation

Best in the World
FLEMING
EGG PRESERVER
Bar None

Just rub it on.

Costs 2 cents a doz.

Preserve Your Eggs

while they are cheap. One 50c package will preserve 30 doz. eggs nine to twelve months, if kept where cases are exposed to circulation of fresh air they cannot be distinguished from freshly laid eggs. Endorsed by agricultural colleges and other authorities. Send 50c for a trial package.
THE FLEMING EGG PRESERVER CO.
6154 S. SANGAMON ST. CHICAGO, ILL.

S. C. BLACK ORPINGTONS
GLENCO STRAIN

Winners at Chicago Coliseum, Kansas City, Omaha and Des Moines. Write for Circular,
DR. G. H. HUMPHREY
WOODBINE IOWA

IMPERIAL "RINGLET" Barred Plymouth Rocks and Mammoth Light Brahmas



Both Matings in Rocks
Pullet Mating.....Eggs \$3 per 15
Cockerel.....\$4 " 15
Brahma.....\$3 " 15
Satisfaction guaranteed. Circular free.
Lackawanna Poultry Farm
North Water Gap Pennsylvania

Madison Square Winners 1917-1918

S. C. Brown Leghorns

I have a few good cocks, hens, cockerels and pullets for sale from \$5 up.

EGGS FOR HATCHING

Also a few prize-winning Indian Runner and Buff Orpington ducks. Write for mating list and catalog.

REV. J. G. TAYLOR 302 Park St. Chatham, Ont., Canada

Kindly give me the good and bad points of the Columbian Wyandottes and the R. C. Rhode Island Reds.

Will the Columbian Wyandottes breed true if raised with care?

Which breed will mature the earliest, lay the earliest? Eggs are cheap in Mississippi, so we want a breed that will supply a good meaty fowl and still give a good number of eggs.
D. W. H.

Minneapolis, Minn.
A. We do not know any bad points about either breed. Both are very excellent general purpose fowl. They are about equal as layers and as meat producers. Mature about the same age. In stocking a farm, we would choose whichever suits you best.

Columbian Wyandottes should breed true to type and color if you get good stock. They will make a little blockier, chunkier broiler and fryer than the Reds.

Wheatless Chick Food.

O. Please give formula for a wheatless chick food. We cannot get any good mixed grains and cannot buy mixed feed, bran or middlings.
J. C. M.

Portland, Me.
A. If you can secure sound old corn, oats and barley, you can get along very well. Have oats and barley ground into a coarse meal and sift out the hulls. With this mix an equal quantity of sound old corn ground into "grits." If you can grind the grain at home, as you need it, so much the better. Use the fine germ meal of the corn with an equal amount of fine oat meal or oat middlings, for a chick mash. Give milk curd, or scalded fresh fish to supply animal food. Feed plenty of greens.

Eggs Not Fertile.

O. I have a breeding pen of Barred Rocks in a house 10x12 ft. Perfectly dry, open-front. Feed scratch feed twice a day in deep litter, have dry mash before them all the time. Let them out on lawn nearly every afternoon. They get plenty of greens. All birds are vigorous and free from lice. I get 3 or 4 eggs every day from four females. On testing out 39 that had been under hens for 8 days, there were only 2 that were fertile, the rest were clear. These 2 had very weak germs. I have this same trouble every season. Last year I set over 100 eggs and never a chick until August. Then I got only

7 out in one sitting. If there is anything you can advise me to do, or not to do, will greatly appreciate it. These birds are all fine exhibition birds and I want to raise some chicks this season.
C. L. R.

Chicago, Ill.
A. Your birds have been living too well and laying too heavily to breed well. Take away the mash and allow only a very small amount each day. Cut down the scratch grain ration, but see that they get more hard grain than mash. Keep them hungry enough to always have kept appetites. Make them work on the lawn a good part of each day. Two meals a day should be ample and they should work all day in the deep litter. Birds intended for breeding purposes should not be forced for egg production all fall and winter.

Wants To Start With Two Breeds.

O. I am a young man, 22 years old, and am starting in the poultry business. I expect to handle two breeds. Please give me advice on what two breeds, I desire one breed that is a little smaller than the average bird, attractive and good layers, and I want one that is large, good table fowl, good layers and good sellers.
R. P. S.

Pueblo, Col.
A. Why not try White Leghorns and White Plymouth Rocks? They will fill your requirements.

Buckwheat for Poultry.

O. Do you recommend buckwheat for poultry feeding? We can generally get a very good crop here.
A. K.

Elkton, Md.
A. It is an excellent feeding grain and well relished by the fowls after they become accustomed to it. By all means grow a good crop.

Sell Chickens Gradually.

Don't glut the market with chickens, live or dressed, soon after May first when the Federal "closed season" on hens ends. This advice to farmers is given by the United States Department of Agriculture.

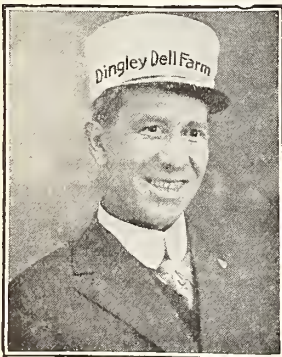
"Too many fowls on the market may result in food losses," says the department. Poultry stock should be sold gradually. Farmers will have better markets if they avoid glutting them.

GEORGE BEUOY

The man that made the tools that made the Capon famous wrote

What's a **Capon** and Why?

A BOOK THAT EXPLAINS EVERYTHING YOU will ever want to know about CAPONS. 50 pictures from life that show each step in the operation. List of Capon Dealers' addresses. Tells how to prevent "slips," where to get the best and cheapest capon tools. Capons are immense eating. Big profits realized. Get wise. This book tells how. Regular 50c copy, prepaid to your address (a short time only) for a Dime in coin or stamps.



"THE MAN"

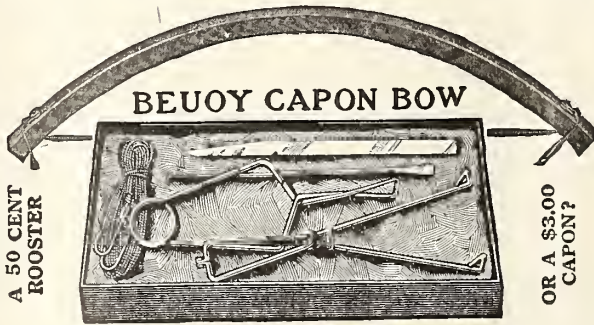


"THE CAPON"

Which Shall it Be

50c ROOSTER or \$3 CAPON?

Let me explain how to do it. I have this information all illustrated and printed in a nice little circular that I will be glad to send you free of cost. It tells how I make money with capons. Send me your name and address plainly written and I will send it to you by return mail.



BEUOY CAPON BOW

A 50 CENT ROOSTER

OR A \$3.00 CAPON?

This is the **Automatic Safe Set and Bow**

Sent Postpaid . . . \$4.50
Without Bow . . . 3.50

Exactly like Mr. Beuoy uses himself. Guaranteed to satisfy you or your money back. Order direct from this advertisement and a copy of the above mentioned book will be sent free.

Clear Vision "Automatic Safe" Easy to Use—Highest Gold Award Worlds Fair Panama-Pacific Exposition

GEORGE BEUOY

R. R. No. 7

CEDAR VALE, KAS.

FEEDING CAPONS AND ROASTERS.

By S. K. BURDIN.

FROM every direction comes the commanding, imploring and entreating injunction—grow more; do more, and give more—and on top of it all we are compelled to pay more. It is a simple matter to sit at a desk in the various capitals and repeat thru the press "More yet, more yet," but it seems quite another matter when some intrepid individual has the temerity to ask these officials to either lower cost of feed, control the packing and cold storage concerns or guarantee prices of products. "No-sir-ee, that is quite another question; we can't do that, but you just be good, shut your eyes to the future, go ahead, raise the chicks and next fall some philanthropic concern with plenty of space in their cold storage vaults perhaps will reward your loyalty with ??? per pound."

Economic evolution is slow, but government control of packers, cold storage, milling and elevators must come.

However, we all wish to do our bit and raise as many chicks as possible for home consumption to take the place of beef, pork and mutton, so we will not split hairs about prices and cost of production. We hope to show herein how you may produce, prepare, and use or sell the males at a handsome profit.

To many, especially beginners, where the bulk of increased production will come from, the cost of feed will be a heavy burden if old time methods are followed. The question of feed for young stock has received scant attention from our colleges and experimental stations, and it is to pass on a feeding plan to others that has been found cheap, simple and efficient here in Canada, that has induced me to discuss the matter here.

ERRORS IN FEEDING.

Just why and how grain has come to be regarded by so many as the only feed for poultry is hard indeed to fathom. Especially is this true of the inexperienced or beginner. One of the hardest things in the world is to get them to regard other things as essential and to give them a regular place in the feeding schedule.

Poultry (Aves) may be said to belong to the "Herbivorous," "Carnivorous" and "Grainivorous" class or species. True, they will live nearly or quite upon grain alone for a considerable time, but for best results they must have a wide variety of food in which grain is only a part. This is true of mature fowl and doubly so in feeding the young.

In feeding poultry, as in feeding domestic animals, one must know what he wishes to do and how to do it. He must be guided by requirements and feed accordingly to accomplish or produce the desired end. There is a vast difference between a laying, growing and fattening ration; however, we will consider only the latter two.

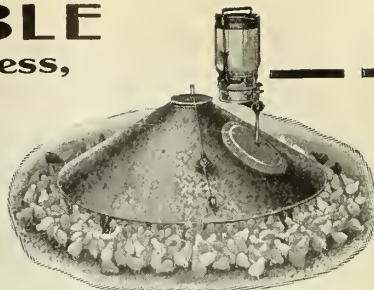
A WHITE ELEPHANT.

In raising chicks, about half will be cockerels. Here and there the rule fails, but on the whole it is a safe basis to work upon. To many these cockerels are a White Elephant.

Among the early hatches, say up to and including the first week of May, a good price may be realized on all cockerels as soon as they can be made to weigh two to two and a half pounds each, as broilers or fryers. It is customary and, in fact, excusable to handle the Mediterranean breeds in this way, but among the English, Asiatic and American breeds there is a better and more profitable method.

Barring accidents, when a chick weighs a pound they are out of danger. The great bulk of deaths occur during the first three weeks. Therefore, at four or five weeks of age the chick has passed the danger line, except for hawks, skunks and cats. Each live chick has to carry, or represents the cost of hatching and loss from infertile eggs, as well as early deaths from all other sources.

The RELIABLE Blue Flame, Wickless, Oil Heated Colony Brooder



- Burns Coal Oil. safety.
- Comfortable. Easy to Operate.
- Self Regulating. Convenient.
- No Wicks to Trim.
- No Coal Smoke or Gas.
- Economy of Operation.
- Steady Blue Flame.
- Gives Abundance of Heat.
- Positively Has No Fumes.

The Reliable Blue Flame, Wickless, Oil Heated Colony Brooder, is the latest, best and most efficient Brooder ever offered for sale.

After a year of experience in testing out and operating this Brooder we are offering to the trade, knowing that such a Brooder is needed by the poultry raisers in general.

We will furnish this Brooder, equipped with our Blue Flame, Wickless, Coal Oil Heater, which has positively no fumes, as it consumes all the smoke, soot and gas and it feeds itself automatically. You can gauge your heat by the flow of oil by our safety valve.

This Colony Brooder is far more efficient than the Coal Burning Brooder. There is no danger of fire going out and chilling the chicks. We guarantee that you get any amount of heat needed at all times, and our regulator will take care of all surplus heat and will do equally as good as a Coal Burning Brooder and more, with less trouble, less risk of fire going out and with equal success of comfort of chickens entrusted to its care and with less cost.

Guaranteed as Represented or Money Refunded

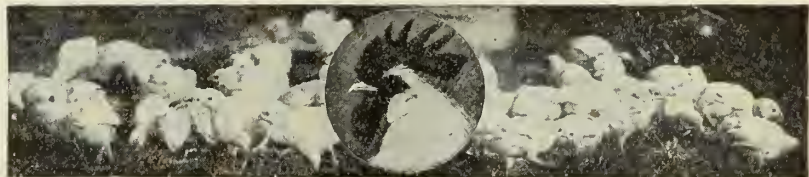
These Brooders are shipped direct from factory and will be furnished with everything complete, and ready for operation. Now is the time to purchase. We are offering special inducements in order to introduce this Brooder.

The No. 1, Blue Flame, Wickless, \$12-25 The No. 2, Blue Flame, Wickless, \$14-40
Oil Heated Colony Brooder, 42-inch Hover Oil Heated Colony Brooder, 52-inch Hover

RELIABLE INCUBATOR & BROODER COMPANY Box A-1 QUINCY, ILLINOIS

BABY CHICKS!!

From YOUNG'S STRAIN S. C. WHITE LEGHORNS, 200-255 egg layers. The World's greatest laying and exhibition combination. Government tests show Leghorns lay more eggs and eat less feed than other breeds. If you want eggs come on the right side of the fence.



Grade A pens contain my best females, 200-255 egg blood lines, mated to sons of Madison Sq. Garden New York, 4th cockerel, 4th cock, 1917, and 4th cock, 4th cockerel, Boston, 1915. Baby chicks from these pens \$20 per 100, \$12 per 50. Grade B pens contain same quality as above, only short on show points. Baby chicks from these pens \$15 per 100, \$8.50 per 50. I guarantee safe delivery of chicks anywhere in U. S. east of Rocky Mts. Eggs are one-half the price of chicks. Catalog telling of my methods free. David T. Farrow, Peoria, Illinois.



Baby Chicks

From pure bred, healthy, vigorous, heavy-laying strains. All our birds are raised on free range. Eleven years' experience in hatching and shipping chicks. CATALOG FREE.

The New Washington Hatchery

Dept. C, New Washington, Ohio



290 EGGS IN ONE YEAR

MAPLESIDE BRED-TO-LAY

BARRED PLYMOUTH ROCKS

Are Known the World Over

They have gone to South Africa, Australia, Hawaiian Islands, Alaska, Canada and Mexico. Why not to you?

EGGS

\$2..... per 15; \$3.50..... per 30.
\$5..... per 50; \$10..... per 100.
Extra Selects—\$3 per 15; \$5 per 30.
Day old chix. Circular free.

O. F. MITTENDORFF

Box F LINCOLN, ILLINOIS



Baby Dux and Chix for Meat and Eggs

Meat and eggs are the crying need of the world. Are you going to do your share? Are you helping raise what you eat yourself? Our baby chix and dux have the necessary vim, vigor, vitality and "livability" to assure you of the greatest degree of success possible, whether you handle them for "green dux," broilers, roasters, or egg production.

They have 32 years of expert breeding along practical lines back of them. As our plant is right across the road from the express office, our chicks do not suffer the usual handicap of being held in boxes for hours waiting for train time.

**One Customer Made \$3 per Head Profit
On Our Stock Last Season**

R. I. Reds White and Barred Rocks White Wyandottes
Leghorns Anconas Pekin and Indian Runner Ducks

Remember, our baby dux "grow like weeds," and the above breeds of poultry include what our long experience has proven to be best as money-makers.

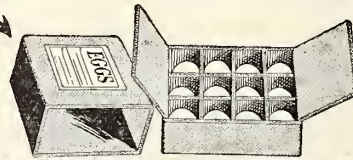
Order Now—Circulars Free

W. R. CURTISS CO.

RANSOMVILLE, N. Y.

Safety

Don't subject yourself to the annoyances arising from the use of improper shipping boxes and other supplies. Get acquainted with our big poultry supply house. We handle the very best and also give prompt service in



Improved Parcel Post Egg Boxes New Egg Cases

New Flats and Fillers Oat Sprouters Leg Bands Poultry Remedies Etc., Etc.

At the Lowest Prices Write for Our Free Catalog

H. K. BRUNNER, Dept. M, 45 Harrison St., New York City, N. Y.



Thousands of Baby Chicks die every year from White Diarrhoea. You should protect yourself against this dreaded disease by feeding

"CORNELL"

BRAND BUTTERMILK CHICK STARTER

It should be fed from the time the chicks are hatched until they are three weeks old. Send your dealer's name or write for price list.

BLAMBERG BROTHERS, Inc.

WHOLESALE SEEDS AND FEEDS

107 COMMERCE STREET

BALTIMORE, MD.

IOWAIN STRAIN BUFF ORPINGTONS

In my pens I have 1st cock which won color special at Greater Chicago Show, 1918; 2nd cock, special for shape, 1918; sweepstakes young pen, Iowa National Buff Orpington Meet, Davenport, Ia., 1918; 1st cock, Iowa State Show, 1917, 1st and 2nd young pen; 2nd young pen, Greater Chicago Show, 1918.

EGGS FOR HATCHING

from these grand birds. Remember, when you buy eggs of me you are not buying a "pig in a poke," but the production of birds that have been O. K.'d by the judge.

Send for Mating List today.

F. S. JORDAN, Springville, Iowa

EGGS BUFF PLYMOUTH ROCKS STOCK

The Old Reliable Breed for Eggs and Meat. They Lay, Weigh and Pay.

WINNINGS: Chicago Coliseum, 1917, 1st cock, 1st young pen, 2nd and 3rd pullet, 3rd cockerel, 3rd hen. Boston Quality Show, 1918, 1st pen, 1st, 2nd and 5th cockerel, 1st, 2nd and 4th pullet, 3rd, 4th and 6th hen, 1st cock. Championship Male, Championship Female and Best Display.

EGGS FOR HATCHING, \$5 PER 15. 25 choice breeding cockerels and pullets for sale, \$5 to \$25.

FRANK J. NUTTING

BRANDON, VERMONT

ROSE COMB TOMPKINS' RHODE ISLAND REDS SINGLE COMB

Make a record win at Madison Square Garden, 1918. 6 first prizes out of a possible 10, including all firsts on cockerels, pullets and pens in both Single and Rose Combs. Best display of Reds in both combs and President's trophy for best display of Reds.

Large stock of fine breeding and show birds to fit any pen or show room, and prices always reasonable. Write your wants fully to

HAROLD TOMPKINS

Box A

CONCORD, MASSACHUSETTS

If properly fed and managed, the cockerels are much more profitable to grow to six to ten pounds weight than to sell or use at two or three. In other words, it is less expense and trouble to develop what you have than to kill and replace them with later hatches.

CAPONS AND ROASTERS.

In the present increased production campaign we are doing our bit just as much when we plan and work for our own table requirements as when we raise poultry to sell.

Thousands upon thousands will keep poultry this season for the first time. They want eggs and meat for their own use and to turn to account every ounce of food that might otherwise be wasted. Farmers will set a few extra hens also, so that they may have more red meat and fats to send to our Allies. It is important, therefore, that every step be made to count and every effort put forth to increase our poultry production at the smallest possible cost for food, care and labor.

If you have from one dozen to one thousand or more cockerels intended for killing and eating, no matter how or what you feed them, they will eat less, fight less, run less, grow less, grow faster, fatten better, taste better and bring more if castrated (caponized) when they weigh about a pound and a half to two pounds each.

When castrated they are known as capons; if not, they are usually called roasters. Capons often grow to ten to fourteen pounds weight; are the finest eating, and bring the highest price of any of our table birds, turkeys not excepted.

FEEDING HINTS.

In feeding, as in anything else, haphazard methods only invite failure. One must have a definite plan and object in view. In this instance we are considering but one plan for one purpose—developing and growing young stock and producing soft, sweet meat capons and roasters in the fastest, cheapest, and therefore best possible way.

It must be remembered that birds must have a good large frame if they would take on flesh and fatten satisfactorily. Many imagine they can fatten a chicken profitably any time. It cannot be done. If attempted before they have nearly or quite attained their growth they simply use a majority of what is intended as a "fattening ration" and convert it into a "growing ration" and proceed to grow like weeds. Therefore it is best to feed first for frame, and then for fat, and the one should be so blended or shaded into the other that the birds will never know where one stops and the other begins.

Sudden changes in feeding methods are bad in every way. It takes the system too long to adjust itself to new conditions—loss is inevitable. Keep the birds keen when meal time comes. If they seem indifferent, skip that feed altogether and lessen the amount of feed slightly in future. They must not be overfed. Be particular also about fountains and water. Keep fountains clean and in the shade. Give fresh water two or three times daily.

FLOCK MANAGEMENT.

Where possible, cockerels and pullets should be separated soon as sex can be distinguished. This helps the pullets to do better, as the cockerels start their bullying and fighting tactics very early. If separation is impossible, caponize the cockerels as fast as ready or old enough. They can then all run together, as capons are as gentle and docile as pullets; in fact, pullets frequently boss them about.

For feeding reasons, however, where at all possible, the capons and roasters should be kept separate and fed differently. Cockerels intended for breeders and pullets should be given plenty of hard grains to develop the muscles of the gizzard, which gives them greater grinding and assimilating capacity; while those intended for killing may be fed soft and ground feeds, giving faster growth and softer flesh.

GREENS—CUT FINE.

Anything green and succulent, such as rape, alfalfa, clovers, cow peas, chard, cabbage, sorghum, young rye, oats, wheat, Jerusalem artichokes or grasses, should be cut fine (1/16 to 1/8 inch) in cutting box daily, as required.

GROUND GRAINS.

Mix finely ground grains and the following articles in these proportions:

- 10 lbs. Middlings
- 10 lbs. Ground Oats
- 10 lbs. Corn Meal
- 10 lbs. Ground Barley
- 1 lb. Fine Charcoal
- 8 ozs. Fine Salt

Note—If the ground barley or corn meal is hard to secure, double the amount of corn meal or vice versa. Either will do, but both are preferable. Also, if sour or buttermilk is not to be had, add 10 lbs. of fine beef scrap or beef meal to above grain mixture, and use water for moistening the greens.

DIRECTIONS FOR MIXING.

To ten pounds of greens (cut fresh daily) add three pints of sour milk, buttermilk or water and mix well in tight tub, pail or box. To this add five pounds of the ground grains, mixing all together thoroly.

Note—If water is used, be sure fine beef scrap or beef meal is added to ground grains as previously directed. Keep tubs and pails scraped clean and covered when not in use, on account of flies. Mix the day's requirements fresh each morning. All leavings and excess should be given older birds. Let none of this food stand before birds, old or young. After a little experimenting, mixing may be done by measuring instead of weighing.

HOW TO FEED THE MIXTURE.

When chicks are six weeks old give them at noon in a trough what they will clean up in ten minutes. For balance of the day feed as before. Clean or scrape out trough and turn upside down, unless same is under cover.

When chicks are eight weeks old give two feeds daily. What they will clean up in ten minutes in morning and in fifteen minutes at noon. Balance of day feed as before. Clean out and turn over all troughs, unless sheltered.

If sexes have not been separated, twice a day is as far as safe to go, being particular to give whole grain for afternoon or evening feed for reasons previously stated.

If cockerels and capons are kept by themselves, at ten weeks of age increase to three feeds daily. Give what they will eat in fifteen minutes, morning and noon, and all they can eat at night. From now on till ready for final fattening, give nothing but this mixture, with grit and oyster shell always before them.

By this method of feeding the capons are always suitable for killing after they weigh three to four pounds each, but for marketing and best results they should be kept till they weigh eight pounds or better after a month's feeding of a fattening ration, preferably in crates, using the customary methods and rations for 'crate feeding.' (The foregoing ground grains, without greens, are excellent.)

All leavings and cleanings from troughs and tubs, together with enough to provide one ten to fifteen-minute feed for the hens (layers) should also be provided each day.

When greens are scarce or unobtainable, fine cut clover or alfalfa (cured) may be substituted if steamed or cooked before using, but better and cheaper results will be secured if greens are used. This method is intended for summer and fall when green stuff is easily grown or procured. It will develop capons and roasters rapidly, producing the highly prized and much sought after soft, sweet, juicy, tender flesh that always brings top prices on any market.

Pullets and breeding cockerels grow rapidly and breeders and layers will also do better. The plan can be made to reduce your feeding bills from one-third to one-half and at the same time give much better and more satisfactory results.

CRATE FEEDING.

When capons or roasters are ready for final fattening they should be gradually changed over from the foregoing method to the following:

Confine them in feeding crates (slat bottom and front) and starve them for twenty-four hours. Use the foregoing ground grain mixture and make into rather soft batter, using sour milk or buttermilk if possible. Give what they can eat in ten minutes morning and evening for first week, gradually increasing till getting three feeds daily of fifteen minutes each, by the middle of second week. Remove feeding troughs or clean them out after each feed. Leave no feed before birds between meals. Feed in this way for four to six weeks before killing. Dress them to suit your immediate market requirements. These methods insure handsome profits from your surplus and cull cockerels.

Baby Chicks



50,000 of them are hatched every week at

UHL'S HATCHERY

SEE those bright little fellows—as lively as crickets. Blood will tell. They will go out into the world and make their owners happy by shelling out the eggs next winter. Maybe there are a few cockerels there that are going to furnish some savory fries. Um-m-m—I can smell 'em now! We receive hundreds of testimonials from our customers stating how well pleased they are with the fine quality and laying ability of the birds they raised from our chicks.

And Uncle Sam Will Deliver them by Parcel Post

right to your door if you live in town, or to your postoffice if you are on a R. F. D. Route. They are from the breeds that long experience has proven best—18 varieties of

- Rocks, Leghorns, Anconas, Minorcas,
- Reds, Wyandottes, Orpingtons,
- Spanish, Brahmas

There is a bred for every need and taste—they are all good. They combine "fine feathers" and laying ability, and you will make no mistake in choosing any of them.

This is our 18th year Hatching Chicks and we know how

We know how to produce the strongest chicks—how to ship them in order to reach you safely—how to produce the best in baby chicks—and we supply you at most reasonable prices.

Write at once for Catalog and Special May and June prices.

M. UHL & CO. ^{Box} A NEW WASHINGTON, OHIO

White's White Rocks

Winners at Chicago Coliseum, Illinois State Show, Greater Chicago Show, Quincy, Springfield, Peoria and numerous other leading shows. My customers are also winning with my strain. I had the best White Plymouth Rock at the Greater Chicago show, 1913, in competition with some of the strongest breeders in the country.

Stock, Baby Chicks, Eggs for Hatching

at reduced prices, with our guarantee of complete satisfaction. Send for my calendar and mating list. NORTH HILL POULTRY FARM MRS. LOUISA WHITE, Prop. Box A WASHINGTON, ILLINOIS

Halbach's White Plymouth Rocks

"The Proven Leaders"

Eggs from our own Champion Chicago Winners for sale now at one-half price, \$6.00 per 15, \$11 per 30. Send for our free Mating List describing these grand birds. Look it over carefully and send in your order at once. Also splendid Baby Chix for sale. Large Catalog 20 cents.

H. W. HALBACH & SONS R. 1 WATERFORD, WISCONSIN

MINORCAS Giant Single Comb BLACKS

EGGS — EGGS — EGGS — Reduced prices on some of the best matings in the country. Write today for my catalog and conservation mating list, and start a flock of Giant Minorcas and have the best. JOHN L. BROWN 1515 W. 7th Street ANDERSON, IND.



RAISE the best broilers and roasters in shortest possible time at least expense, for your table or the market. It is a simple matter to put one-third increased weight on birds in twelve days with the ordinary feed by mixing

BLATCHFORD'S MILK MASH

Ask us for leaflet and nearest dealer

Blatchford Calf Meal Factory
Waukegan Dept. A Illinois



POULTRY BANDS

Pigeon Bands—Nest Tags

All goods guaranteed to be just as represented. ALUMINUM BANDS with raised figures, price postpaid, 10-15c, 25-25c, 50-35c, 100 60c.

SPRAL CELLULOID BANDS, 10 different colors price postpaid, 12-15c, 25-25c, 50-45c, 100-75c.



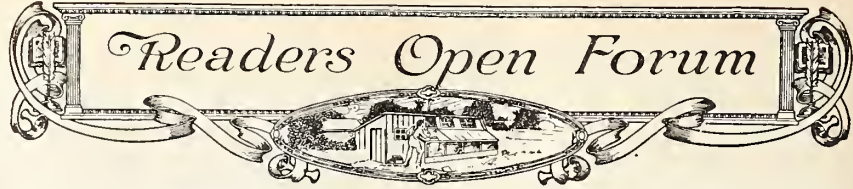
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The National Poultry Band Co.
Send for Catalog. NEWPORT, KY



Poultry Cuts

for illustrating your advertising and printing. All sizes. Send for catalog and prices.
AMERICAN POULTRY JOURNAL,
523 Plymouth Court, Chicago

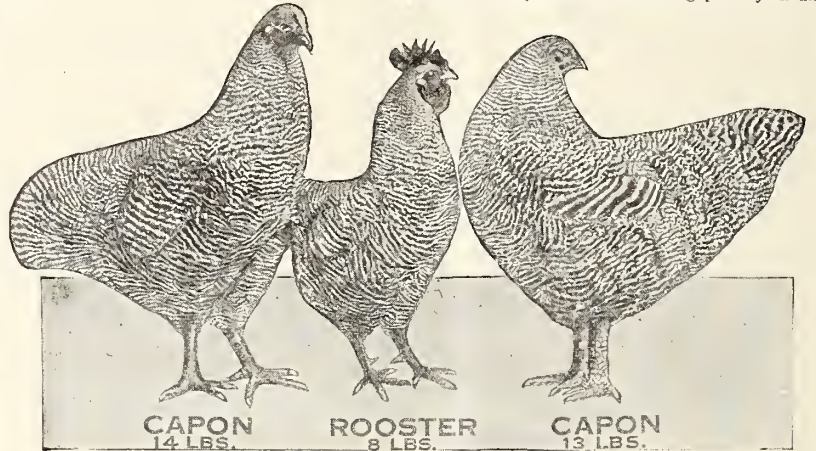


Poultry Conditions in Florida.

AS A reader of American Poultry Journal, I cannot resist the temptation of writing my appreciation of the stand the Journal is taking relative to the existing conditions in the poultry industry today. I feel that this is a time when plain truths should be told and every effort made to better conditions. It is hard work not to lose faith in those who are so loudly demanding increased poultry production while at the same time they are disposing of their entire flocks, as is the case in some quarters.

Corn is selling here for \$4.25 per hundred pounds, oats at \$4, while bran and shorts are out of the question. Eggs are selling for 35 cents per dozen. Looks like a get-rich-quick scheme.

To me there seems to be a somewhat glaring inconsistency in the advice given poultrymen to weed out the drones if they wish to make their flocks profitable, while at the same time we are forbidden to sell these very drones. I breed a few White and Columbian Wyandottes and have managed to break even, or a little better, but under existing conditions I do not feel justified in breeding poultry in any



CAPON
14 LBS.

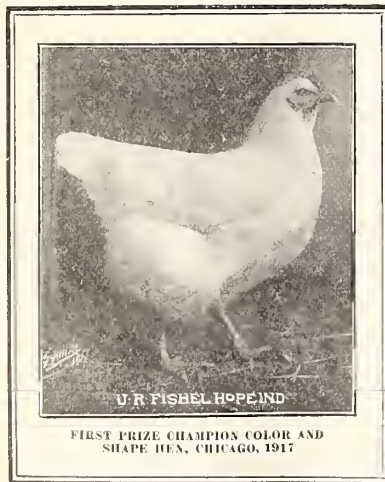
ROOSTER
8 LBS.

CAPON
13 LBS.

EAT A CAPON, SAVE A PIG—HELP WIN THE WAR.

Why not make a ten-pound capon, like the illustrations, from your surplus cockerels? A simple little operation is all that is required and you can do it just as well as any one. This paper advised that last season, and those who followed the advice are now cashing in on their capons and not worrying about the price of feed. Capons are now bringing on the market from 35 to 45 cents a pound, live weight, depending on location. Which means from \$3.50 to above \$4.50 each for good capons, and in large or small lots, on the market. Beside the big profit those who make capons are rendering the country a "Patriotic Service," as they make five pounds of meat where there would be but one if handled in the usual way. Those raising just a few chickens are in the best shape to make capons at a profit, as no elaborate expense or equipment is necessary.

DON'T STOP HATCHING



U. R. FISHEL HOPE, IND.

FIRST PRIZE CHAMPION COLOR AND SHAPE HEN, CHICAGO, 1917

The season is a month late and every fowl that can be grown this year should be produced as the world needs meat and eggs.

U. R. FISHEL'S
White Plymouth Rocks

hatched in May, June and July mature by winter and produce eggs galore during the spring months, when eggs are demanding the best prices.

I want to encourage a larger production of poultry so I am offering

SPECIAL PRICES FOR MAY

and prompt shipment and careful selection.

EGGS FOR HATCHING—{ Yard Eggs..... Half Price
Sale Flock Eggs..... \$10 per 100, \$6 per 50

BABY CHICKS—\$25 per 100, \$13 per 50, \$7 per 25.

Selected Breeders, Utility Flocks and Exhibition Birds at reduced prices. Back Yard Flocks, special bargains to help out. Catalogue free.

U. R. Fishel Box A **Hope, Indiana**

great numbers. The long promised reduction in feed prices has so far failed to materialize. Instead of reduced prices on grain, prices on feeding grains have reached high water mark.

This state has many advantages and, of course, some disadvantages, as a poultry raising country. So far as climatic conditions are concerned, it is nearly ideal. The principal drawback being the distance from markets and feed producing centers. Florida does not produce enough poultry and poultry products for her own needs, but our local poultry producers are in competition with Tennessee eggs, which are retailed here at a price less than the production cost in this state.

There are a few who can figure paper profits, and believe they can produce eggs at seven-cent cents per dozen, but I am not one of those fortunate individuals; am "from Missouri," and will have to be shown.

The American Poultry Journal is the only poultry paper that I know of which has the courage of its convictions.

Keep it up. The poultrymen are with you. Florida. E. J. Jennings.

Less Poultry in Iowa.

After reading my April American Poultry Journal would like to be where I could put you on the back for the way you have handled the order forbidding the sale of hens. This order has put a ban upon the poultry raisers of Iowa, at least in our locality, and there is not going to be the amount of poultry raised this year that there generally is here.

We got 52 cents per dozen for eggs until the first of March, then they dropped within a week to 23 cents per dozen. They are paying 31 cents now (April 6). Corn is \$1.65 per bushel; oats, 95 cents per bushel; mixed poultry feed and scratch, \$4 per hundred pounds.

The corn is very soft and its takes just as much again as usual. It cost me just twice as much for feed this past winter as it did before, and I have ten less hens and pullets. The corn is so poor that it takes so much more of it to keep up the strength and make the needed heat for cold days and nights of which we had plenty this year. If you need any reinforcements in the fight for a square deal to the poultry producer, call on me. I want to see things straightened out before another winter. Iowa. B. F. Morrow.

Texas Producers Hard Hit.

I thought I would write what we are up against here in drought-stricken Southwest Texas. We are carrying a flock of 200 pure bred hens, feeding them \$5 per hundred grain, \$4 per hundred mash, buttermilk and green stuff. This went on for three months while we were not getting any eggs, as pullets were late in starting to lay. Eggs were 50 cents per dozen at that time and every one said: "Hold on to your fowls, eggs will go to a dollar a dozen before the winter is over." We did not have any such pipe dream, but we thought the price would not drop and in the end we would probably break even, and thus be able to hold on to our flock of birds which we hate to sacrifice. We were finally forced to sell a part of those which we had intended to keep for breeders in order to pay for the feed for the rest of the flock.

Our hens began to lay the very week the order was put on forbidding the sale of hens until May 1. Egg prices tumbled 15 cents a dozen within the week. Fine for the consumer, no doubt, but what about the producer? We had fed our birds \$150 worth of feed, during which time we got no eggs. They are shelling the eggs out now, but at present prices of eggs they are not feeding themselves. While egg prices continue to go down, feed prices remain high and grain almost impossible to obtain at any price.

You are exactly correct when in the American Poultry Journal you say that the consumer must decide to pay the producer a price for his stuff which will insure him a living. The consumer must decide this matter poco pronto or he will have to become a producer himself, or experience a very severe "belly pinch."

Unless feed prices drop about 50 percent, as promised some months ago, it will be impossible to continue to feed the birds we are "forced to keep" by this new ruling, much less think of trying to produce more. We will have to turn our birds out and let them rustle for themselves, and thus lose what flesh we have put on them, as well as what we have put into them. We have to live first, and our whole family can live on what it costs us to feed our poultry, and we are feeding the most economical ration to be had.

The Food Administration will have to come to our relief soon by either lessening feed prices or, if this is not possible, fixing a price on eggs in accordance with their cost of production. We cannot produce eggs here for less than 60 cents per dozen at any time during the year under present conditions. Texas. C. E. Anderson.

"Gas" the Poultry Lice



Declare war upon these destructive, profit-killing vermin. Adopt a policy of "frightfulness." Kill them by wholesale with LICECIL vapor. Merely hang a bottle of LICECIL near the roosts as directed. The vermin-killing "gas" will be delivered constantly in sufficient quantities to exterminate the lice and mites, to keep birds and roosts free from these trouble-makers.

Effective—No Trouble—Little Cost

Not necessary to handle each bird separately to dust or grease. The LICECIL vapor works all the time. No injury to the birds—sure death to vermin. LICECIL evaporates slowly, so bottle lasts for many weeks.

Tested for years—highly endorsed by leading authorities. Price—delivered—1 bottle, 75c; 3 bottles, \$2. Order now—adopt the better way. Circular free. Address nearest office.

LICECIL MANUFACTURING COMPANY
BOX 35, QUINCY, ILL. BOX 35, GERMANTOWN, PHILA., PA.

Muller Sectional Brooder Coops & Runways



Set up or taken down in 2 minutes without tools. Absolutely rigid and durable. The ideal outfit for raising young chicks. We are closing out this year's stock of Double Coops and Runways as illustrated for

\$6.75

complete. This is less than cost. Former price, \$12.50.

Don't overlook this opportunity.

F. R. Muller & Co., Waukegan, Illinois

Raise 2 Instead of 1

Use "Oculum"; it makes diseases fly—Quit doubting, do as I have done

"I weakened my stock by line breeding; after using 'OCULUM' 4 years I have pullets that weigh 6½ to 7½ lbs." E. T. ADAMS, W. Manchester, N. H.

"I fed 'OCULUM' to 48 Leghorns 24 days; eggs jumped from 8 to 42 a day—all hatched under hen and 90 per cent in incubators." H. C. MILLER, Akron, O., Judge A. P. Assn.

"OCULUM" quickly cures White Diarrhea, Roup, Cholera and Blackhead. Hawkins, Fishel and other experts praise it.

Bottles, 50c and \$1; Pints \$2. Money back guarantee. SAMPLE, 10c—240 FEEDS Booklet FREE. Dealers Handle It. This Journal O. K.'s Us.

"OCULUM" CO. - Box B - SALEM, VA.

WHITE QUILL WHITE ROCKS

Have improved many White Rock Flocks. They will win for you just as they have been winning for me and my customers, and you can't beat them as EGG-layers.

Your Opportunity Eggs half price from my exhibition—bred-to-lay matings \$2.50 and \$5 for 15 or \$4.50 and \$9 for 30

Part of My Breeders of All Qualities for half their real value for delivery early in June, be prepared for the show room and the breeding pen for next year. 6 weeks old chicks \$1 and up.

A. F. POLTL HARTFORD, WIS.



Quality S. C. White Leghorns Exclusively
Bred-To-Lay

DAY OLD CHICKS:

May.....\$3.75 per 25, \$14 per 100, \$130 per 1000
June.....3.25 " 25, \$12 " 100, \$110 " 1000

EGGS FOR HATCHING:

May.....\$1.25 per 15, \$6 per 100, \$50 per 1000
June.....1.00 " 15, \$5 " 100, \$45 " 1000

At least get our catalog before ordering elsewhere. It is free.

THE ELLIOTT POULTRY FARM Route 7, Box 87 MANSFIELD, OHIO

American Laying Contest Winners

Brookside White Wyandottes

High Scoring—Beauty and Utility Combined—200 Egg Average
Eggs half price after May 10. Hens and pullets now at bargain prices to make room for growing chicks
BROOKSIDE FARM G. W. SCHOTTMAN, Prop. MONTROSE, ILL

Perry's Rose Comb White Leghorns

win 1st at Chicago, New York and Ohio State Fairs. Splendid layers. Best eggs \$3.00 and \$2.00 per 15. Chicks 30 and 20 cents each. 16 years in business.

LOUIS H. PERRY Route No. 8 CLAY, N. Y.

SIMPLEX FAULTLESS Baby Chick and Growing Stock Feeder

(Also Recommended for Full Grown Birds Being Raised in Low Coops.)
CAPACITY 5 QUARTS — EXCEPTIONALLY USEFUL



Raising Baby Chicks and instilling vigor into the growing stock depends greatly upon the feeding methods employed by the breeder. Young stock should be fed little but often—you know it's a big job to take care of them properly—then again, the feed they don't eat at once lies on the ground—gets soiled—unfit to eat. The SIMPLEX FAULTLESS GROWING STOCK FEEDER will keep the feed sweet and clean. It's always on the job—feeds the chicks when they are hungry—never too little; never too much. It's a pleasure to watch the little fellows work around the feeder and to know that they are being fed just right, that every kernel of feed they consume increases their weight and vitality, thereby producing larger birds with less work on your part.

NOT ONLY FOR BABY CHICKS

This feeder will work equally well if used for feeding full grown birds and is recommended for use in low coops. It holds five quarts, will feed any kind of feed either mixed or separate—it is built on the principle of our larger "FAULTLESS" Feeder and is furnished complete with bracket, which can be attached to the wall or side of a coop at proper height. This feeder is beautifully painted (dark brown) and with ordinary care it will last forever. It is guaranteed to feed your stock perfectly from the time the chicks are able to eat until ready for the axe.

No.	Capacity	Diameter	Hopper Height	Height Over All	Shipping Weight	Price
151A	5 qts.	8½ in.	7 in.	14 in.	4 lbs.	\$1.00

SIMPLEX SUPPLY HOUSE, 1300 Pontiac Bldg., CHICAGO, ILL



1st Buff Orpington Hen
Indianapolis, 1917

IF WE ARE GOING TO BE PATRIOTIC Why Not Start Something?

I have 50 Buff Orpington females as good as the one in this ad, now in my breeding pens. They are on big runs with plenty of blue grass and fish worms. They are laying eggs that will hatch, and for 60 days I will make you a war time price on eggs for hatching. **30 Eggs, \$6; 100 Eggs, \$18.** If you want to start now with the best breed that ever wore feathers, here is your chance. This is just about ½ the value of eggs and remember, they are from the Indianapolis winners. Now is your chance, order from this ad. and do it today.

THEO. HEWES 2051 Hillside Avenue INDIANAPOLIS, IND.

WHITE ROCKS 1st Cockerel, — 3rd Hen —

Heart of America Show,
KANSAS CITY, MO. Eggs, \$1.50 to \$5.00 per 15. Write for free catalog. - MYRON ALBERSTETT, DAVIS, ILLINOIS

HATCHING EGGS

From Our Bred-To-Lay **White Wyandottes**

Our pens this year are headed by the best males we have ever owned — vigorous, prolific birds of standard type.

EGGS 15 for \$1.50 | 50 for \$5.00
30 for 3.00 | 100 for 8.00

Stock for sale. Also some very fine young cockerels at \$5.00, \$10.00 and \$15.00 each.

MILLS CREEK POULTRY FARM, W. J. Forrest, Prop., EAGLEVILLE, OHIO



Pure bred BARRON S.C. Wh. Leghorns EGGS and CHICKS from 282 egg stock

EGGS, \$1.50 per 15; \$7.50 per 100. CHICKS, \$15.00 per 100

Every non-fertile egg and damaged chick replaced free. Send us your order now to insure delivery on the date you wish them. No deposit required.

Coleman Miles Egg Farm, Importers and Breeders of Tom Barron's Pedigreed Leghorns. Mt. Carroll, Ill

Found That Poultry Paid Well.

Last year my parents started me in with a flock of thoroughbred poultry. They agreed to pay all the bills providing I kept an accurate account of receipts and expenditures and give the birds the right care. I attend school in a distant town, so the work had to be done before leaving home in the morning at 7:30 A. M. and after returning in the evening, some times as late as 5:15 and never earlier than 4:30.

When I started, I thought I should probably make a fortune, for it was in the fall and eggs were going up in price every day, and there was a good supply of grain on hand. When I had to buy the next supply of grain I did not have enough money from the sale of eggs to pay for it, tho I had the supply of grain on hand without paying for it when I took over the poultry. I kept on and began hatching chicks in March. I have one poultry house all cleaned out and just used for broody hens. I white-washed it, sprayed it and put it in first-class shape first, and whenever a hen came broody I would move her to a dark nest there and if she continued to be broody I would get another one to go with her and put from 24 to 30 eggs under the two, according to the size of the hen and the lateness of the season. I have hatched out this way nearly one hundred chickens this spring. When two hens come off together, and there are not too many chicks for one hen, I give them all to the better mother of the two, and if I can get another broody I set her with the other hen over again. I think I shall have as many chicks hatched by the first of May as I can afford to feed, but as my parents are backing me I wanted as many as I could properly care for. We expect to can the cockerels just as soon as they are big enough to eat, and keep the pullets for layers. In this way we shall have our winter's supply of meat and will only have to feed the chickens for eight or ten weeks. Of course, the pullets eat just as much, but as they are early hatched they ought to begin to lay fairly early and even if they do cost a good big price to grow we do not know of any better food than good fresh eggs at our house.

Now about the profits. My accounts are accurate and I have not charged anything against the birds but money actually paid out. We had the equipment and the fowls, so the grain and other stuff they ate is the only charge made against them. They have laid well, but there is still a few dollars due me for grain. However, my parents declare that the flock has paid well because of the experience which it has afforded me in keeping books and in the care of the poultry, and we also know that the eggs and poultry on our home table are good and fresh and wholesome. We are also helping to feed ourselves, which everybody ought to do these days.

Kansas.

Malcolm Ford.

Keep the Chicks Coming.

For a number of years I have been very successful feeding young chicks and rarely lose any from sickness. I consider it quite an art to be able to keep large flocks of chicks growing from the day they hatch right thru till they are fully developed, and to have few, if any, runts in the flock. Of course, a great deal depends on the quality of the food given them, because no one can grow chicks on bad grain or feeds. Even a very little sour or moldy grain will upset an entire flock and mean a loss of hundreds of dollars to the owner. Now, even in the good old days before the war, the percentage of profit was so small in raising chickens that no one could hope to get by unless he kept up the good work every day and thus prevented any possibility of a setback. But today this matter of keeping the chicks growing, and steadily developing, is even more important and no one can possibly raise chickens unless he makes this an unchanging rule—constant daily growth and no setbacks from shell to maturity.

My success in growing chicks has been the result of giving my time unreservedly to the work and by the observance of a few simple rules which I will enumerate for the good of those who are this season taking up chick raising for the first time.

Do not allow the chicks to be in crowded quarters. Wherever chicks are too closely crowded or huddled, with a consequent lessened supply of good air, the result will show stunted chicks. Give clean, roomy quarters, with as much sunshine and fresh air as is obtainable. Prevent all crowding and overheating at night. Open coops early in the morning.

Give only clean wholesome grain. If you cannot get good grain to feed chicks, do not attempt to raise poultry. Feed often at first, but not too much at a feeding. Do not allow grain or mash to stay about the coops and sour. Clean up any that is left after feeding and do not feed so much the next time. Plan to have one meal every day for the chicks that

will be especially relished. If a chick food is given in the early morning, try giving a relish feed at ten or eleven o'clock. For the little chicks boil infertile eggs and mix the mashed egg with oatmeal, bread crumbs from the family table, scraps or gristle, etc., all carefully shredded and mixed into a crumbly mass. Or boil broken rice, cool and dry out and mix with oatmeal or any good dry mash mixture. Feed also cut up raw potato, which is greatly relished. As the chicks eat the green shoots of grass, move the coop and yard to a fresh spot. Give them all the waste greens from the garden, and while the chicks are small this should be shredded. Save all skin and gristle from meats, grind them up and feed in the crumbly mash which is to form the relish meal of the day to the flock. Now if this is made a rule and no day goes by that the chicks do not get some kind of a relish meal, not necessarily always the same kind of a relish, the other meals can be just plain chick feed, cracked grain and dry mashes. Supply them with all the fresh water, grit and charcoal they will consume, and as they begin to develop, beef or fish scrap or fresh fish if obtainable. I admit it is a costly operation to grow chickens and it requires the patience of Job, but if any one wants to grow chickens there is but the one road to follow. Don't attempt it unless you are willing to give the chickens a fair chance.

Missouri. James Nichols.

THE INTERNATIONAL PLYMOUTH ROCK CLUB.

By THEO. HEWES.

AT THE last Coliseum show there was perfected an organization that should have much to do with shaping the future of specialty clubs. This new organization is known as the International Plymouth Rock Club. Its aim and object is to bring all varieties of this breed under one head, with every breeder of this old time favorite working for the betterment of the breed, regardless of variety. It was proven at the first meeting that a lot of money was annually wasted in maintaining a lot of variety clubs with no results, whereas if the same energy was expended all in one direction that great good might be accomplished. Under the plan as outlined at the first meeting, all varieties of the Plymouth Rocks will have recognition on the board of managers, while the officers elected must give to all varieties that same careful attention.

Instead of paying dues in a half dozen clubs you will be paying dues into only one club and getting greater benefits. Instead of having a half dozen clubs, with practically no membership, you will under this plan have a big membership and have the real live wires of all varieties working together. This breed, without question the most popular one in America today, should have at the least calculation a membership of 5,000. You should and can have a secretary that you can afford to pay a fair salary for his services. You can issue a catalog annually that will do this breed a world of good and this catalog can be issued at no great expense to any member. No breed book yet issued has ever contained half the good copy that could be secured for such a book and it could be mailed to every prospective member and be kept as real reference for the one breed. It was clearly proven at the first meeting that there is no rivalry between varieties of this breed. In fact, the breeders of White and Buff Rocks stated openly that every man, woman and child that bred Barred Rocks or talked Barred Rocks indirectly benefited them. This same condition prevails in many other breeds. In these war times when every one is trying to conserve food and energy, let us all do our bit and conserve our breeds as well. What the Plymouth Rock breeders have done should be followed out by other breeds with numerous varieties.

Let others take up this important matter and hold annual breed meetings instead of variety meetings. Get acquainted with all the men and women that are interested in the same breed you are, try to help them and the breed you are interested in and you will not only feel better, but you will be doing a real service for every one. Edward Joynson, of Briceys, Mo., was elected secretary of the International Plymouth Rock Club, send him \$2 today and join the club. The next meeting of the club will be held in connection with the Coliseum Show, Chicago, December 3 to 8. There will be a lot of specials offered on all varieties of this breed for club members to compete for, in addition there will be a \$50 trophy offered for the best ten entries in Plymouth Rocks, all varieties competing. This last named prize should prove the most coveted special prize ever offered on this breed. Now is the time to get right. Do it now!

CONSERVATION SCRATCH

The Thrift Feed for Chickens

IT has answered the nation's call for a scratch feed that conserves the wheat and is rich in egg and meat producing qualities. Experienced poultry raisers all over the country are using it, praising it, and getting splendid results with it. Your hens will thrive on Conservation Scratch, lay regularly, keep in fine condition.

Conservation Scratch fills the wide demand for a high quality scratch feed that is economical and reliable. It has made good because it is a scientifically selected combination of clean grains which analyze high in food value and supply the correct proportions of protein, fat, fibre, etc., essential to a perfectly balanced ration.



Krause Feeds for Hens or Chicks

Put your fowls on Conservation Scratch. Save money, keep up maximum egg production and insure the health of your stock. Order from your dealer now. If he cannot supply you immediately, write us. Send for free sample at once.

Use Conservation Chick and Developer Feeds, also Krause Mash. Krause Mash never varies in quality—is most effective and gives big returns. Krause Mash and Conservation Scratch Feeds are money makers for every poultry raiser.

Chas. A. Krause Milling Co.
Milwaukee, Wisconsin, U. S. A.

We Make

- Runways
- Trap Nests
- Brood Coops
- Colony Coops
- Setting Coops
- Portable Henneries
- Fireless Brooders
- Exhibition Coops
- Fattening Crates
- Portable Fences



Write for Our Free Catalog of these coops, nests and many other articles. You will save money and get the best.

Niemann Bros. Mfg. Co., Box 677 Mt. Olive, Illinois

Single Comb Black and Buff Orpingtons

Winners at Chicago, Des Moines, Omaha, Cedar Rapids, Dubuque and St. Paul. At the late Davenport Show I won on Blacks, 1st and 2nd cock, 1st and 2nd hen, 2nd cockerel, 1st and 2nd pullet, 1st pen and Sweepstake pen of the entire show. On Buffs I won, 1st cockerel, 1st cock and 5th young pen, also club ribbon for best colored male and club ribbon for best shaped male. If you want Orpingtons that win and lay, write me your wants. Stock for sale. Send for mating list.

O. M. BROWN Box 6 SLATER, IOWA

Barred Rocks Pullet Line Exclusively Again they Win

At Dayton, O., Dec. 10-14, 1917, 1st, 2nd and 3rd Hens, 1st Pullet, 2nd and 3rd pullet-bred cocks. At Columbus, O., Jan. 1-5, 1918, 1st and 3rd Hens, 2nd pullet-mated Pen, and Best Display of Females. At Springfield, O., Jan. 7-12, 1918, 1st, 4th and 5th Hens, 3rd Pullet, and 1st pullet-mated Pen.

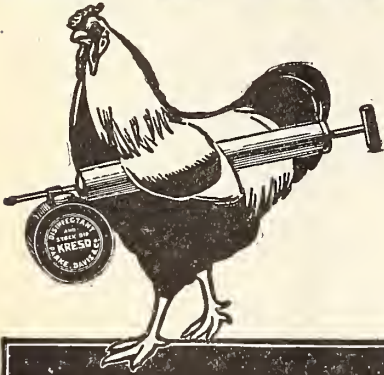
Eggs from exhibition pullet matings \$4.00 per setting; utility eggs \$1.50 per setting; \$6.00 per hundred. Send for mating list.

LEIGH BICKETT, Rural Route 9, XENIA, OHIO

POULTRY

MUST HELP

FEED THE NATION



KRESO DIP No. 1.

A SANITARY NECESSITY

IN RAISING

HEALTHY POULTRY

KILLS LICE AND MITES.

WILL HELP STOP LOSS FROM DISEASE.

**One Gallon
Makes 72 Gallons**

of Solution ready for use.

EQUALLY GOOD FOR ALL LIVE STOCK.

Write for Free Descriptive Booklets on
Poultry and Livestock Sanitation.

ANIMAL INDUSTRY DEPARTMENT OF

PARKE, DAVIS & CO.

DETROIT, MICHIGAN.

Fernwood Leghorns



Heavy Laying
Type

EGGS

**\$2 for 15
\$9 for 100**

A heavy-laying strain of Single Comb White Leghorns that are also beautiful. Send us a postal for interesting folder and low prices.
FERNWOOD WHITE LEGHORN YARDS
712-716 West 103rd Street, Chicago, Ill.

BABY CHICKS

Orpingtons, Rocks, Reds, Wyandottes, Minorcas, Campines, Anconas and Leghorns, 12 to 15c each. Broilers \$12 per 100. Pound pullets and cockerels a specialty. Chicks ready for delivery in March. Booking orders now. Satisfaction guaranteed.

DELAWARE HATCHERY

DELAWARE, OHIO



**Do you breed
S. C. W. Leghorns ?**

Would you like to have a fine catalog of your own, handsomely illustrated in colors, but find the cost too much

If so, send for a sample and prices of my special catalog for S. C. White Leghorn breeders. Catalogs in colors from \$7.00 up.
THOS. NASH PETERSON BLDG., CHICAGO, ILL.

HOW TO RAISE THE CHICKS.

By SUSAN SWAYSGOOD, Pomona, Cal.

IN THESE strenuous times everybody who has a back lot can raise a few chicks that will help out, both their own and the nation's needs. If people living east of the Rockies could only understand that the day of big ranges are gone by, leaving a great scarcity of cattle and sheep, that will take years to replace, if indeed they ever are, they would then realize the necessity for raising more poultry.

The first requisite for raising a healthy brood of chicks is that the parent stock be healthy. This we cannot always know unless we raised them; but the average hatchery looks out for that, because unless the eggs are from healthy stock the hatch is never a profitable one. So when we hear people condemning chicks bought from a hatchery, it is safe to conclude that they have missed some one of the essential things that must be present in order to have healthy, growing chicks.

The first essential is to know how old the chicks are when they arrive, if they have been purchased; if hatched at home, then keep them in an even temperature for at least forty-eight hours without food or drink, but with plenty of ventilation. Hens that hatch a brood rarely allow their chicks to eat any of the feed thrown to them. Why? Because instinct tells them that the chicks have not fully absorbed the yolk of egg which is taken up by the system during the last stages of incubation, and is sufficient to last a chick for several days. The forty-eight hour wait, is not really a fast, because the chick is busy digesting this yolk and when this natural act of digestion is interfered with, by feeding, trouble starts immediately. Usually this is a form of diarrhoea, and the greatest aid in getting rid of it is to feed very lightly and to feed easily digested food, such as boiled rice with a little nutmeg grated in it and bread baked brown in the oven then ground up in the food chopper. Keep finely ground oyster shell and charcoal where the chicks can help themselves and boil all water they drink, allowing same to cool before serving. Chicks should never be served with hot food, no matter what age, always allow time for it to cool.

Chicks drink great quantities of water, and this should be served fresh, in clean vessels several times a day for good results. Poultry of all ages are the most active, maintain the highest bodily temperature and perform the most digestion of food of all our domestic animals. It follows that all their functional activities, that is, their bodily processes, must be rapid. So that if a mistake in feeding or in the watering be made the result is very quickly shown and often proves disastrous. The feed and water vessels should be scalded at least once a week in a solution of Sal-soda or something equally as effective in killing germ life. The reason for this is that if one chick should take a cold or have the least disorder that is communicative, it will be passed along thru the drinking vessel. Water serves to soften the food in the crop, to dilute concentrated food, to carry nourishment thru the body, to aid digestion and assimilation, to carry waste out of the system, to regulate the temperature of the body. So it will be seen that water is most essential toward raising healthy chicks. Indeed, a chick will suffer less and be less stunted when deprived or neglected in feeding than when the fresh clean water is held back.

A good ration for the first three weeks of a chick's life can be made in a bread from infertile eggs, a little sour milk or buttermilk and equal parts of fine steel cut oats, middlings, cornmeal and one-third the bulk in bran; add a little salt and bake well in oven slowly; when cold, grind in food chopper.

To this ration give all the tender green food that the chicks will eat, plenty of exercise and an even temperature under the hover at night and your chicks will thrive.

After three weeks a little grain, either cracked corn, or cracked wheat, or both, should be served at night and the bread kept up as long as the feeder likes to take the trouble. It makes for rapid growth and good bone, especially if mixed with sour milk, and this is the cleanest method of feeding milk. Three years ago I baked and fed this bread to 15,000 White Leghorn chicks, and had them weighing 1 1/2 pounds at eleven weeks old, when they brought fifty cents a pound as broilers. It may be added that all the chicks were supplied with food hoppers containing small granulated bone, which the chicks ate rather greedily. Granulated bone of good quality carries about 2 percent protein and 50 percent lime, two of the most essentials in rapid growth of chicks and besides this it contains phosphoric acid, which plays an important part in the digestion, and hence nutrition.

Milk, either sweet or sour, fills the same

OWEN FARMS

Annual Sale At Half Price

Former advertisements and my printed matter have told you all about Owen Farms unequalled quality. Each year hundreds of customers take advantage of this sale to secure maximum quality at a minimum price. This year each one of us must make every dollar buy its full equivalent. Order eggs for hatching from the finest matings in existence or adult birds to carry over for breeders next year and you are sure of superb quality at a real bargain price.

**My Buff and
White Orpingtons
S. C. R. I. Reds
S. C. W. Leghorns
White Ply. Rocks
Wh. Wyandottes**

are noted for best utility qualities as well as unexcelled Standard qualities.

EGGS

Now Half Price

making them \$3, \$5, \$7.50 and \$10 for 15 from my finest matings. Utility Wyandottes and Leghorns at \$2 per 15, \$10 per 100.

Stock for Delivery June 1st

Will sell about 40 percent of my star breeders for just half the price these birds would have cost you prior to the breeding season. Place your order now and I will reserve for you a single bird, pair, trio or pen that will give you superb adults for breeding and showing next year. Your early order will mean selection while my flocks are complete. Orders have already been booked and others under way.

Order directly from this adv. to secure early booking. Details can be completed thru correspondence. Males now \$12.50 each and upward. Females now \$5 each and upward. All worth more than double. Line-bred breeders of proven worth.

OWEN FARMS

Office at 107 William St.
Vineyard Haven, Mass.

Maurice F. Delano
Proprietor

Frank H. Davey
Superintendent

need, but if served carelessly and spilled on the ground, milk is a promotor of trouble; it sometimes gets smeared on chicks' heads, causing inflammation of the eyes, and if mixed by feeding one day sour and another day sweet, it is an endless source of trouble, so it is preferable to use the milk in bread and serve bone in hoppers.

If it is not convenient to make bread, then a dry mash should be fed after the chicks are a week old. Five pounds of bran, 3 pounds of cornmeal, 2 pounds middlings, 2 pounds ground oats, 1 pound granulated bone, 2 pounds beef scrap and 1 ounce dry fine salt all mixed well together makes a fine mash.

Chicks that are fed dry mash need plenty of water, all the grit, shell and charcoal they will eat. And the more green feed is served the less of other feeds will be needed by the chicks. There is no particular kind, but what is served should be tender and succulent, so that it will easily digest. Lettuce, young cabbage, chicory, rape, lawn grass or even barley, rye or oats, soaked and raked in the soil, soon furnish abundant greens for a flock of chickens.

If the green feed must be bought, then sprouted oats or barley will fill the bill, tho they will be more of a chore.

Get a box and bore holes in the bottom large enough to allow water to run thru. Soak a bucketful of oats or barley overnight, then pour into the box, which should be set in a protected corner or in a building, cover the oats over, leaving them in a pile, just as they left the bucket, until they commence to mat together, then with the hand spread them over the floor of the box about four inches thick. Sprinkle with warm water in cold weather and cold water in summer, once a day, then cover again until the little sprout gets an inch high, then set out in sunshine uncovered, for it to grow green, cut a square about twelve inches big for 100 chicks and watch them enjoy it. More boxes should be prepared in advance to take the place of the one being used up.

Save the Chicks.

The first two weeks is the most important period in the chick's life. The first requirement of the baby chick is warmth. If the chicks are hatched in an incubator, have the brooder ready warmed, and regulated. One day after chicks are hatched, anoint the head of each hen-hatched chick with olive oil. It will kill the head lice. Many of the hen-hatched chicks are lost by the mother hen. Safeguard the chicks and prevent this tremendous chick mortality. Never allow the mother hen to range with the chicks until they are at least two weeks old. In the spring, chicks are quickly wet and chilled by the dew on the grass if they are allowed to forage with the hen. Brood coops should be constructed for confining the broody hen while her chicks are young. These coops should be built about two feet square with board floors. Secure the coops safely at night to keep out the rats, weasels, and other enemies. Hawks and crows may carry off chicks, so keep the broods near the farm house. This arrangement will also save steps in caring for the chicks.

FEEDING THE CHICKS.

Do not feed the chicks for the first 36 hours. Give them a chance to digest the yolk which they have absorbed into their intestines before hatching. Then feed the chicks 5 times a day the first two weeks. Feed a little at a time—just what the chicks will eat up clean. Always feed the grain on a clean spot of ground. Feed the soft feeds on clean grass or on a clean board. Give the mother hen a handful of corn each morning so that she will be contented. For the first chick feed use pinhead or steel-cut oats or oatmeal. Finely cracked corn is the next choice. One or two daily meals of dry bread softened with sweet or sour milk is a fine developing food. Johnnycake can be made from the following recipe: 1 quart corn meal, 1 or 2 infertile eggs that have been tested out, 1 teaspoon baking soda, milk to make a stiff batter. Keep the drinking water clean. Much bowel trouble comes from the drinking water having been contaminated by the chicks wading in it or from the food having come into contact with the droppings.

Texas County on Honor Roll.

The citizens of Grimes County, Texas, are on the wheatless honor roll. According to a telegram received by the U. S. Food Administration March 30, they will use no more wheat flour until after next harvest. These patriots have already turned over to the Government at cost, one car of wheat flour and will deliver others now in transit. These cars have been directed to an Atlantic port by the Wheat Export Company and the Food Administration for immediate shipment to the Allies.

Speckled Sussex

Owing to the express congestion, from now on, all **Moraine Farm Speckled Sussex** eggs for hatching will be **Shipped Parcel Post**. Postage paid.

Here is a chance to get eggs from the best **Speckled Sussex Matings** in America delivered to your door. We guarantee prompt and safe delivery.

Great Reduction Sale

of eggs after May 15. Prices according to quality are as follows: \$6.00, \$3.00 and \$2.00 per setting of 15 eggs. Send our big illustrated catalog. **IT'S FREE**. Order today and hatch some winners.

MORaine FARM, Poultry Department, R. R. 16, DAYTON, OHIO



May and June
Are Nature's
Best Months
for
Hatching



**PAPE'S SINGLE COMB
BLACK MINORCAS.**

—starting **Championship Prize Winners**, glorious large white egg producers and delicious table fowl. I am specializing just now on **EGGS THAT WILL HATCH** and on **CHIX THAT WILL THRIVE** for prompt shipment in any quantity. I am also offering layers, partly matured chix and a few well mated pens at exceptional values. Our special sales list offers **Golden Opportunities**—prices make it possible for everyone to own a beautiful flock. It is free—send for it.

CHARLES G. PAPE, Box B74, Fort Wayne, Indiana, U. S. A.



Riley's White WYANDOTTES

May Chicks Are Best

There is still plenty of time for you to hatch winners. The mild, even temperature of May and June makes it easy to raise chicks, and they develop rapidly and mature quickly. Why not choose this month to become acquainted with Riley's White Wyandottes? I guarantee a good hatch. Write for catalog; it gives a complete story of my winnings, together with unretouched photos of my Chicago, Toledo and Ohio State Fair Winners.

EGGS from pens headed by my winners, \$3, \$5 and \$10 per 15.

BABY CHICKS, 40, 65 and \$1.25 each.

After May 20th, balance of season, eggs half price.

H. J. RILEY Box A BRYAN, OHIO

Pritchard's Genetic Anconas

SCIENTIFICALLY BRED FOR BEAUTY AND EGG PRODUCTION

Buy Pritchard's Genetic Anconas and you will know that you have birds of a beautiful breed, bred to a high degree of productivity; birds that will repay you many times over in satisfaction and results.

Order direct from these most reasonable prices:

12 Baby Chicks.....	\$ 4.20	15 Eggs.....	\$ 3.00
100 Baby Chicks.....	25.00	100 Eggs.....	14.00

FRANK P. PRITCHARD, NATURALIST BREEDER R. No. A2, Fairmount, Ill.

SPECKLED SUSSEX

Pedigreed Cockerels, Pullets and Eggs, bred for their laying qualities from prize-winning males and females at Madison Square, Chicago Coliseum, Palace, New York State Fair, Philadelphia, Keystone Poultry Association, Doylestown, and other shows. Bred first to lay, second as show birds, secured by trap-nested pens, hatched under hens from the best laying females, each egg marked when laid, giving number of hen and pen, duly branded with colored spiralets when hatched, and continued to full-grown birds.

Eggs from five pens at \$5 for two settings, any single pen \$3 per 15.

T. CADWALLADER - DOYLESTOWN, PA.

Williams' White Wyandottes

1896 — Champions of 1916-17-18 — 1918

Winners at New York 15 successive years. After May 10 I will sell eggs from 10 of the best matings in America, no reservations, at \$5 per 13, \$15 per 40, \$35 per 100, by P. P. prepaid. My catalog free. **F. B. WILLIAMS Box H, Naugatuck, Conn.**

OTTO White Orpington Eggs Reduced

After May 10th eggs will be half price—\$2.50 per 15 from our Indianapolis and State Fair winners. Mating list by return mail.

WILLIAM N. OTTO 4815 Central INDIANAPOLIS, INDIANA

Jacobs' S. C. White Orpingtons

Winners at Indiana State Fair, Chicago Coliseum and Indianapolis.

Eggs one-half price after May 1st. Send for free illustrated mating list. **Frank W. Jacobs - 2027 Nichol Ave. - Anderson, Indiana**

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COLONY
BROODER
\$17.50**



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Super-Automatic Check Control.
Exclusive Patent Features.**

The MARVEL is guaranteed to perform better and to raise more chicks than any other Brooder. Big saving in operating expense. Will brood 50 to 1000 chicks for less than 6 cents per day. Cuts initial cost for equipment to less than one half. Perfect satisfaction guaranteed or money back in 30 days. Send for Circular on "Scientific Brooding."

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**Chicks
100,000
For 1918**

Barred and White Rocks, White, Brown and Buff Leghorns, Rhode Island Reds, Broilers, White Wyandottes, Black Minorcas and Anconas. Hatched from pure bred, healthy, heavy laying stock. Lowest Prices. Satisfaction Guaranteed.

Write today—Catalog Free

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**Pagel's Sanitary
Non-Freezing
Fountain No Lamps**

Keeps water warm in winter and cool in summer. If not at your dealer, send for circular and testimonials from pleased customers.

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**The "Best Yet"
Aluminum Leg Band**

cannot come off. Five sizes, pigeon to turkey. State breed, 12, 15c; 25, 25c; 50, 40c; 100, 75c. Celluloid Leg Bands—Red, Green, Amber, Pink, Black, White, Yellow, Light Blue, Dark Blue. Pigeon and Baby Chick sizes—12, 10c; 25, 20c; 50, 35c; 100, 60c. Poultry sizes, 12, 15c; 25, 30c; 50, 50c; 100, 80c. Circular free.

Aluminum Marker Works, Dept. J, Beaver Falls, Pa.

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Tells all you want to know about Rabbits. Our book: "The Rabbit: How to Select, Breed and Manage the Rabbit and Belgian Hare for Pleasure or Profit," by breeders of long experience with rabbits. Seventh edition, nicely illustrated, enlarged and much improved. Price 25 cents with sample copy of the American Poultry Advocate containing Belgian Hare Dept. Poultry Advocate Dept. 252 Syracuse, N. Y.

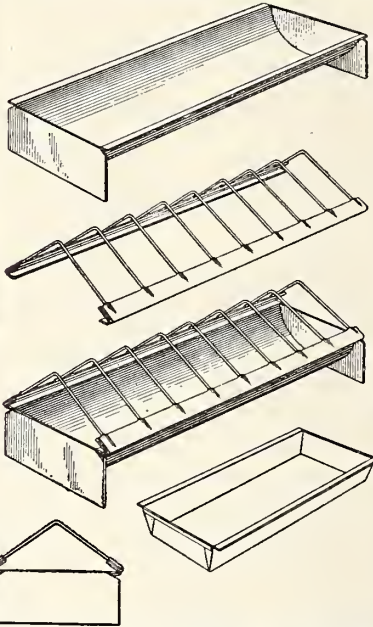


Recent Inventions for Poultrymen

By Lester L. Sargent, Patent Attorney, Washington, D.C.

A FEED or water trough, invented by Albert L. Terstegge, and acquired by the Kentucky Stamping Company, of Louis-

ville, Ky., designed to prevent the fowls from stepping in the trough or crowding each other. It has an attachment in the form of a wire grid, the wires being bent in inverted V form and mounted in longitudinal spaced side members that engage over the outturned edge flanges of the trough. The patent number is 1,252,861.



A new sanitary non-freezing watering fountain, having a compartment for a lamp in its lower portion, has been invented by Elmer Hicks, of Des Moines, Iowa. The water reservoir is removably supported in the outer casing of the fountain, and has a water leg extending downwardly from the bottom of the reservoir and laterally displaced with relation to the trough, the reservoir being provided in its top with an opening, and a filling pipe leading from the opening downwardly thru the reservoir with its discharge and extending into the water leg, this construction serving to maintain an even predetermined level of water in the trough below the main reservoir of the fountain. The reservoir is spaced from the main casing of the fountain, thus providing insulation from the outside atmosphere to retard freezing of the water. The trough is readily removable at any time. Patent No. 1,258,620.

Gertrude A. Smart, of Madison, Nebraska, has invented a new fastener consisting of a flat metal strip with prongs at either end adapted to engage in the breast of a fowl after it is dressed for the purpose of cooking more readily. Patent No. 1,255,477.

An incubator having a novel moisture supply device has been invented by Marinus J. Nelson, of West Minneapolis, Minn. It has a valve controlled drip pipe opening into the egg chamber above a funnel which discharges the water into a drip pipe below. Patent No. 1,258,037.

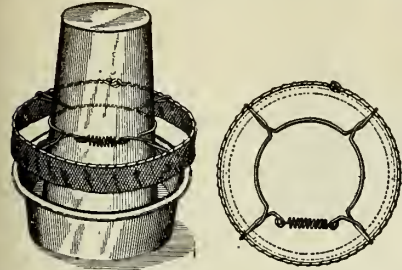
Feed or Water Trough, invented by Albert L. Terstegge, patent rights acquired by Kentucky Stamping Company, Louisville, Ky. Patent No. 1,252,861.

A poultry insecticide applicator to automatically apply a quantity of insecticide to the heads of poultry to cause the extermination of



First prize Buff Minorca cockerel at Chicago Coliseum Show, 1916. Owned by Walthalla Poultry Farm, R. 1, Oscoda, Mich.

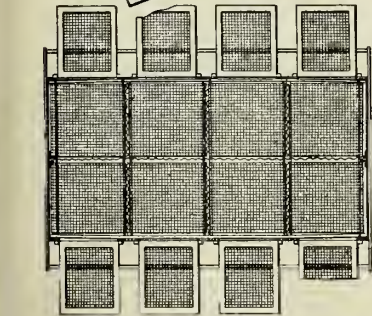
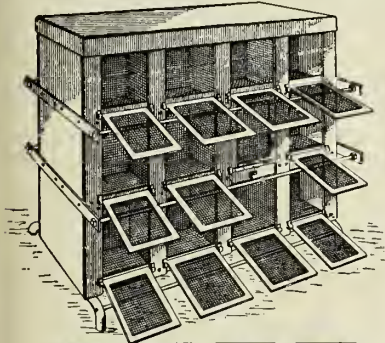
mites, has been invented by Alphonse La Breche, of Jefferson, So. Dakota. The apparatus consists of a flexible cylindrical wick fastened to a wire ring which is attached to



Poultry Insecticide Applicator, patented by Alphonse La Breche, Jefferson, So. Dakota. Patent No. 1,259,416.

the tank of a water trough, and spaced above the tank portion of the fountain so that when the fowls drink they will brush their heads against the wick. The device may be applied to any cylindrical fountain, and is readily adjusted or removed for the purpose of replenishing the supply of insecticide. The patent number is 1,259,416.

A sanitary nest—or, rather, a group of them—made entirely of metal, with the enclosed portion of the nest constructed of wire screening, has been invented by John F. Brooks, of



Sanitary Nest, patented by J. F. Brooks, Bluffdale, Texas. Patent No. 1,257,796.

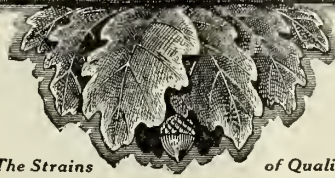
Bluffdale, Texas. When the doors are closed it is a complete coop and effectively protects the hens and eggs from robbing animals. The bottoms of the several nests are removable. The structure is easily cleaned. Patent No. 1,257,796.

Two new brooders of the feather type have recently been patented; one, which includes a lamp casing in its central portion for artificially heating the brooder, is the invention of John F. Plach, of Maza, North Dakota (Patent No. 1,257,023). This brooder is ring shaped, thus preventing crowding, as it has no corners to crowd into. The feathers are suspended from a fabric inner cover. A second cylindrical brooder, without the lamp feature, is the invention of Charlotte E. Allspach, of Ubec, Ind. It has a single large tuft of feathers suspended centrally from a rod attached to the apex of the conical roof of the brooder. (Patent No. 1,257,063.)

A new device for breaking hens from setting has been invented by Albert E. Johnson, of Sanborn, N. Y. It is a cage having spaced bars rotatably mounted in the rim portions of revoluble discs which form the ends of the cage. Two pan-like containers having an opening in their central portions are secured to either end of the cage and provide suitable feed and water troughs, the contents of which will not be spilled by its rotation. An attempt

WALHALLA

Buff Orpingtons



Buff Minorcas

The Strains of Quality

Summer Sale

You Can Save Money By Spending It

in buying Breeding Stock and Eggs for Hatching at reduced prices. You will appreciate it next winter, when prices will be double. A breeding pen bought now will pay for itself many times before the season is over. Eggs will produce chicks that will win the highest honors for you next winter and will develop into great exhibition, breeding birds and great layers. Remember our adv. from last month. Read it again.

Can you imagine what it means to produce best colored and best shaped male, also best colored and best shaped female, for such a show as Chicago Colliseum? Our strains certainly have the blood lines behind them to do it. The reproducing power in our careful line-bred birds is very strong and if you have difficulty in producing such wonderful birds, also in winning the desired prizes, give our strains a trial, they have done it for us and others and also will do it for you; they also will be a profitable investment for you.

Now is your opportunity of the year to purchase part of our high class Exhibition and Breeding birds at reduced prices. Many of these birds could not have been bought early in the season at any price. Of this offering it can conservatively be stated that no more valuable offering, from the viewpoint of foundation material, both in males and females, ever went thru this sale. Order or book your order immediately to secure high class birds.

This month is just the time to raise these outstanding champions for your show next season, and you can do it in buying Eggs or Baby Chicks from such a strain. Everyone should make an effort to produce all the poultry that he possibly can during 1918 to help the country in producing food. Therefore we have started our Summer Sale very early to help everyone to secure the best possible quality in stock and eggs within their reach. It costs no more to produce good poultry than it does mongrels. When you start, start right.

Prices on Hatching Eggs Now:

	Special Matings	Exhibition Matings	Quality Matings	Farm Flock
15 Eggs.....	\$ 7.50	5.00	\$ 3.00	
30 Eggs.....	12.50	9.00	5.00	
50 Eggs.....		14.00	8.00	\$ 7.00
100 Eggs.....			15.00	12.00

Order direct from this advertisement to secure prompt shipment. Every bird guaranteed satisfactory or your money refunded.

Our Mating List will give you a complete description of every pen we have mated. It's free. Also send for Summer Sale list.

Walhalla Poultry Farm

Carl E. Schmidt, Owner
Edw. F. Schmidt, Poultry Manager

R. 1, Oscoda, Mich.

SHIP YOUR

EGGS WHITE OR BROWN EGGS

net, no commission; returns day of arrival.

All reasonable drafts honored, to

ALEX MERSEL

191 Duane St., New York

References

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2 for 35c

Here is the Feeder and the Fountain

for which every poultryman has been looking.

It combines all the good qualities of the ordinary Mason jar fountain and feeder with the good qualities of the best baby chick feeders on the market. The bottom of the feed pan slopes from the center to the edges, thereby insuring a free flow of feed from the jar to the edge of the pan, where the chicks can reach it thru the openings. The small openings prevent dirt from getting into the pan—prevent the chicks from getting into the feed or water and prevent them from crowding too close around the feeder, thereby giving the weaker chicks an equal chance with the stronger ones. This overcomes every objection to the ordinary open pan Mason jar feeder and fountain. It fits any Mason jar.



3 for 50c

The top of the pan can be removed in a second to clean or fill. It is the most inexpensive, most practical and most sanitary feeding and watering device on the market and is fully covered by U.S. letters of patent. If ordered from this ad we will send them postpaid to any address in the United States. **SIMPLEX SUPPLY HOUSE** 1300 Pontiac Bldg. CHICAGO, ILLINOIS
Send for our complete Catalog of Poultry Supplies and find out about our marvelous Feather Brooders; also Automatic Grain Feeders and Non-Freezing Water Fountains.

Save the Babies



Don't hatch eggs or buy baby chicks until you are properly prepared to raise them

SUCCESSFUL HATCHES are of less value than total failures if the chicks do not live to maturity, as a failure in the hatch is far cheaper than a gradual diminishing of the brood thru leg-weakness, bowel trouble, diarrhoea, smothering, chilling or of any other affliction.

It is safe to say that 90% of these troubles are due to improper brooding.

Not only artificially hatched but also hen hatched chicks require proper care. Nature gave the hen feathers to protect her chicks but neglected to give the sense necessary to keep her from leading her brood into damp grass or sometimes deserting them.

Simplex Feather Brooders & Hovers

Combine Nature's Gift with Common Sense

They embody the use of natural feathers which have been thoroly cleansed, renovated and fumigated. The brooders are made in both artificially heated and fireless construction. The hovers are suitable to be placed in any old brooder and are just the thing for breeders having heated brooder houses. They are inexpensive, light, sanitary, easy to handle and easy to clean.

You will not only raise more chicks, but your chicks will be stronger and larger than chicks raised in the average heated brooder if you use Simplex Perfection Feather Brooders or Hovers.

Chicks cannot crowd in these feather brooders. They cannot chill or smother. They just seem as contented between the feathers as a cat behind a kitchen stove.

Don't take our word for it, but ask the folks who use them.

Simplex Feather Hovers are being used on some of the most successful poultry farms in the country since 1910.

SEND FOR OUR CATALOG. It will tell you all about these wonderful chick raisers, as well as our automatic baby chick feeder and other poultry appliances. Send today—it's free.

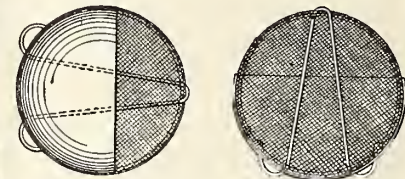
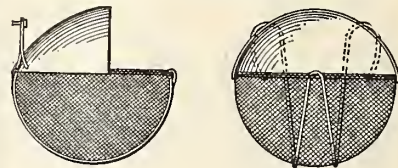
SIMPLEX SUPPLY HOUSE

Pontiax Building

Chicago, Illinois

to set in this cage causes it to gently revolve while each individual bar is also able to turn about its axis to make it difficult for the hen to maintain a balance in a setting position. Patent No. 1,258,684.

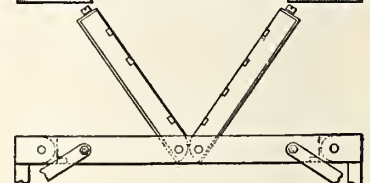
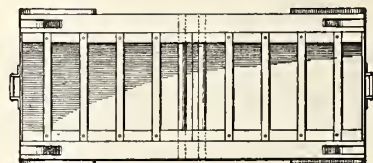
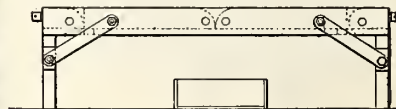
Mabelle E. Turner, of Deposit, N. Y., has devised a hen's nest without corners or crevices for dust, dirt, and vermin to collect in.



Hen's Nest, patented by Mabelle E. Turner, Deposit, N. Y. Patent No. 1,256,956.

Its lower portion is of wire screening of curved shape, with a curved metal cover over the rear portion of the nest. A wire supporting frame is used for hanging the nest to a nail. Patent No. 1,256,956.

Sarah Clark, of Contact, Nevada, has devised a hen roost with pivoted trays which may be tilted to a nearly vertical position for the purpose of quickly cleaning them. The roost is



Hen Roost, patented by Sarah Clark, Contact, Nevada. Patent No. 1,253,928.

also provided with pivoted supports so that it can be completely folded up for purposes of storage or transportation. Patent No. 1,253,928.

HIGHEST SCORE EVER WON

100 Envelopes, 3 5/8 x 6 1/2 inches, an extra strong, thick, smooth, slick, white writing face, and 100 Letterheads, 8 1/2 x 11 inches, heavy, hard, smooth, slick, pure white writing paper, all artistically printed and illustrated with latest new Standard cuts of your breed for only \$1.00. Express charges paid by me. Better printing for the price was never done. No order less than \$1.00 filled. Name your Express office. Cards, tags and egg labels same price as above.

Address, J. R. HUDSON, Hardin Springs, Ky. We have saw samples of Mr. Hudson's printing. It is very nice; he is perfectly honest.—EDITOR.

S. C. W. LEGHORNS—OHIO'S BEST

Our breeding pens contain our winners at The National All Leghorn Show and Ohio State Fair and our price is but \$2 and \$3 per setting. Sold up on W. F. B. Spanish eggs for season.

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POULTRY BREEDERS IT'S UP TO YOU.

By THEO. HEWES.

IF THERE was ever a time when the poultry breeders of this country needed to sit tight and not rock the boat, we are on that date and it is not necessary to wait for another change in the moon. The producing end of our business has been stung in more places than the misguided pup that trotted into a swarm of bees. We may get some help from these one dollar per year men in Washington, but I am willing to gamble a nine dollar bill, eighteen inches long, that we do not. My guess is, and I am guessing with about as much information as the average man is possessed of at this time, that we had better forget Washington and spend a little time, putting our experience into print and mailing the copy to the American Poultry Journal and other journals of a like character that have sufficient circulation to warrant an audience. If this poultry business is going to run, it is up to just such people as you and I to keep the old cart greased. We have been hit in the head with a meat ax and now they are trying to break the handle off somewhere. The producer has been sacrificed on the altar of the packer and just so long as that class of men control we had better play a little game of solitary of our own. We do not have to sell our poultry on a glutted market May 1st. We can keep them for sixty days longer with no greater loss than the sixty days prior to that date, and by so doing we can prevent the packers from making a fortune out of our losses and it is up to every mother's son of us to do it. Unless the packers of this country are willing to pay a price for live poultry on May 1st that will at least equal the price of the feed and labor it has required to produce them, then positively refuse to let them go. We can at least feed the hired man and make him happy.

What we can do—and it is the right thing to do: Is to continue in the business, raise every bird that we have proper yard and house room to accommodate and hold this stuff for local consumption, giving to our immediate local trade the best we have at a fair price. There never was a better time to buy stock in any legitimate enterprise than on a falling market.

Things will adjust themselves in time, men with brains are going to see that proper adjustments are made. We may be the loser right now, but it will come back as sure as day follows night and it is up to us to see to it that we are prepared for the rebound. There never was such a scarcity of birds of quality as there is today. There was never a better demand than there has been in the past two months. But the price of thorobred fowls will now as they always have been, largely governed by the price of market poultry. So looking at it from a good sensible standpoint we cannot afford to lay down on the job. The price of feed can not reduce to any great extent until another crop is raised and even then we have no real assurance of any marked reduction, for the whole thing will hinge on transportation and God knows we are up against it proper at that end of the line. But we can help ourselves by using by-products that will take a part of the strain off of corn, wheat and oats. You can not raise poultry without grain; you must have some of it, and you must use some of it every day. But there are other substitutes that will help and they are substitutes that can be raised by nearly every one.

Just now I am feeding one meal every other day of boiled potatoes and bran. Potatoes are selling in the Indianapolis market in 20 bushel lots as low as 80 cents per bushel, or in bushel lots at 90 cents per bushel. I use about one bushel for 125 fowls. They are boiled in a large iron kettle, using plenty of water, and this water is salted in about the same proportion as we would for our own use. The potatoes are then mashed in their own juice and sufficient bran added to dry them down to a crumbly mash. This feed can be used every other day for one feed without reducing the egg yield, but if fed oftener than this you will soon see a marked difference in the egg yield, and you will find the fowls are still looking for something else, as they appear hungry even with a full crop. Onions, carrots and even cabbage makes a fair substitute, but they have not proved as good in my own yard as potatoes. Another feed, and one that can be raised on almost any soil is stock beets. Last year I produced more than one ton of this feed in two rows less than 75 feet in length. Regardless of the instructions usually given by the seed men to plant them late, my own experience is to plant them early. They will grow to an immense size, quite often reach-



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ing a weight of 6 to 8 pounds. They can be fed raw or cooked the same as I have described in feeding potatoes. Then again the leaves of these beets can be fed all summer. In removing the leaves take only the side leaves, always leavin^g the two crowns and it does not seem to injure the growth of the beets, and new leaves immediately form where the old ones have been removed.

If we will all use the best judgment we have, try to do all we can do right, and not overdo it, we will come out of this crisis with a whole skin.

But if we overdo it we will be the loser. You can not raise 100 chicks in one coop and get good results. One of the wisest provisions we can make is to figure the size of our yards by the capacity of grown fowls and then hatch only as many chicks as will fill this capacity at maturity. It is a fact, proven times without number, that 25 hens in a back yard of ordinary capacity will produce more eggs in 12 months than 50 hens in the same yard.

Again I say, GO TO IT. This poultry business is worth all the time we can give it. It has survived a lot of knockouts and it will survive this one, but we must put real horse sense with our enthusiasm and not let ourselves be led away by wild stories of fabulous fortunes to be made on a back lot poultry farm.

HAVE BOTH CHICKENS AND A GARDEN.

How Best to Help Out on the Food Problem by Using the Back Lot.— A Garden Helps, and a Family Flock of Pullets Pays All the Year.

By A. F. HUNTER.

"NO. I think I won't start a garden this summer. The wife and children are planning to go away to her father's for two months, July and August, and I'll be away for two weeks myself, so I'm thinking I'll build a small chicken house this summer and buy a flock of pullets next fall; the eggs will look pretty good to us next winter, I'm thinking."

Thus talked a youngish man to me a few days ago, and I at once replied that he could just as well have the advantages of both the family flock and a garden, if he planned it right. He went on to tell that his efforts at a garden hadn't resulted as they had hoped last summer, in fact they hadn't got garden truck sufficient to pay for the seed planted, and that they had felt that a flock of good pullets would

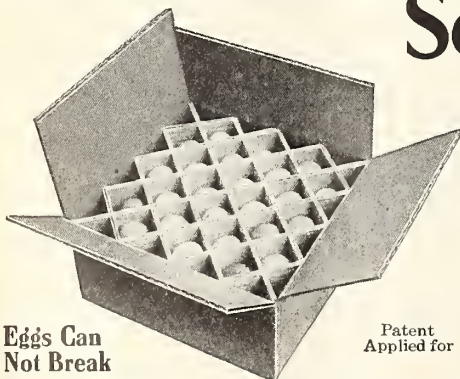
be a better investment, from what he told me it is evident that he gave practically all of his space to summer green stuff, such as peas, string beans, lettuce, etc., and, excepting tomatos, they hadn't tried to grow fall and winter foodstuffs.

Undoubtedly a flock of pullets would yield better returns, if the birds were right and were handled right, but good pullets are going to be hard to find and high in price next fall, unless all signs fail. Would the wife's father grow a dozen or fifteen pullets for them? This is already arranged for, and as there were about a dozen families of chickens already out April first, with more to follow, there was good ground for believing there would be no difficulty about getting the pullets. That certainly listens good, evidently the man and his wife had been considering the step for some time, and the wife had taken up the matter of having pullets grown for them with her father and mother back in the country.

"But, why not have both the laying flock and a garden?" I asked him. "If you plan and plant the garden right you can have good foodstuffs from it next fall and winter, and then have the double benefit of eggs from the family flock and foods from the garden. Plant the garden space to such crops as potatoes, tomatoes, cabbages, beets, etc., these wouldn't be available until the family was back from the country in September, and these 'perma-

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ment value' crops would provide quite some green food for the pullets. The outside leaves from the cabbages, potato and beet skins, etc., are all good for green food for the layers."

Our friend has a lot having sixty feet front, and there is a space about thirty feet by sixty available in rear of the clothes yard and garage. A space eight feet square, or 8x10 feet, is all that is essential for the flock of pullets. A house eight feet square, or 8x10 feet in size, is ample for fifteen birds of one of the American varieties (Plymouth Rocks, Wyandottes or R. I. Reds), or for eighteen to twenty Leghorns, and there need not be one foot of ground given over to a yard for them. Where they are kept for eggs for the family table only they will do just as good laying if kept confined to the house, will keep in just as good health, and the only essential is to promote exercise by having good scratching litter over the house floor into which to throw the grain food, so that the birds have to scratch and search for every kernel of grain they eat. This "scratch food," as it is called, together with a good dry-mash mixture at hand in a food hopper hanging against the side of the house, solves the problem of feeding the flock.

The waste from the family table helps out with the food, but there is less food value in this table and kitchen waste than there used to be; we are all learning to not waste good food, even tho it goes to the flock of layers. Some tiny bits of meat or gristle the birds may glean from discarded meat bones, and there is green food in the apple and potato parings, but it certainly is true that there is much closer saving of foodstuffs than ever was known before, and our flocks of layers need a regular supply of food if they are to make eggs for us.

And see that the birds have fresh, clean water to drink always at hand. The water fountain should be well rinsed out and refilled at least twice a day, and in cold, freezing weather the fountain should be filled with fresh lukewarm water three times each day, the last supply being given a little before sundown, so that the birds can drink their fill before going on the roost for the night. After the birds have gone to roost remove the fountain, rinse and empty it and put in a convenient place for refilling the first thing in the morning—at time of first grain feeding. The water fountain should hang against the wall of the house, about six or seven inches up from the floor, and preferably near the door, where it will be convenient to reach in to get it; "convenience" is most important for all hen house furnishings, since having things convenient facilitates doing the essential chores.

Have the nests in which the expected eggs are to be deposited set up from the floor; having them set close up to the under side of the droppings platform is the best location, because this gives the birds the entire floor space for exercise room for the flock. And the entire floor should be covered with some good scratching material, so that the birds will have to scratch and search for their grain. Several things are good for scratching material—straw, leaves, coarse hay, planer shavings, etc.—and this scratching material should be raked off and a fresh supply put in about once a month, or more frequently if it becomes damp and fouled. The most successful family flock of which I have knowledge has a bale of planer shavings put in the house about once a month, and the shavings are left in a solid block, just as the holding wire forms it; the birds go at it with vigor, digging it down and scattering it over the floor, and in four or five days the "bale" has disappeared and there is about three inches in depth of clean shavings all over the floor.

The best benefits from the family flock come from considering both eggs and meat; having the eggs thru the fall, winter and spring, and eating the birds before the family goes away for the summer. The original supply of a family flock, so far as I am aware, came about thru a friend of a Mr. Baldwin, of Toronto, Canada, complaining of the difficulty experienced in getting fresh-laid eggs for his family. "Why don't you keep a little flock of ten or a dozen birds yourself?" asked Mr. Baldwin. "You've got some room to spare in your back yard. Fix up a small house for them and I'll sell you ten pullets and bring them in to you, and next spring, before the wife and children go off to the country for the summer, kill and eat the birds as the family can handle them, then get another flock of pullets next fall."

The result of this family flock was so satisfactory the word was passed along, and within three years Mr. Baldwin was supplying eight or ten families with laying pullets each fall. Of course they were not his best pullets—no one ever sells his best! These family flocks were what would be called "seconds," and they were sold at a price accordingly; they were quite as good layers, and were exactly as good for eating, as tho they were the best birds and sold at top prices.

Mr. Baldwin is a breeder of White Wyan-



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dotter, and they are a very good all-around variety, as are the Barred and White Plymouth Rocks and the R. I. Reds; all of these are excellent winter layers, and all are excellent table poultry when dressed to eat. It is in this combination of eggs and poultry meat that we get the best results, get the best returns for the money and labor invested; this combination works out the best if we begin eating the birds about April first, eating two or three birds a month until the flock is disposed of. In some instances that have come to my knowledge there were three or four birds left when the family went away, and these were sold to the butcher.

And it should be kept in mind that the birds are worth just about as much to eat, as poultry meat, as they cost in the first place; this is a point lost sight of by too many small-flock poultry keepers, who are prone to imagine that there is a dead loss in cash when a bird is killed to eat! This is not at all the case, as anyone can figure out if he will recall what he paid the butcher for a fowl the last time one was bought for the table. Taking it by and large it will be found to work out that the last year's flock will be worth as much, as poultry meat, as the new flock will cost.

With such an arrangement as here suggested the family will be well fixed for eggs thru the fall, winter and spring, and for poultry meat thru the spring months, provided the right kind of pullets are purchased; and “the right kind of pullets” are those that were hatched

MATING AND BREEDING COLUMBIAN PLY. ROCKS.

By T. J. ENSLIN, Hackettstown, N. J.

The question of mating any breed having the Light Brahma color markings is no easy task. I hope, therefore, the reader will not think I am assuming too much in treating on this important subject, in view of the fact that my experience does not cover as long a period of time as that of many Light Brahma breeders. It is a well known fact that for fifty years some of the best poultrymen in the country have “jarred their brains,” so to speak, in endeavoring to produce A-1 specimens. As regards color markings, the same principles apply for Columbian Plymouth Rocks, as they are identical.

However discouraging the above statement may seem, I can assure the beginner that many Columbian Rock breeders have obtained marvelous results within



First prize and champion Barred Rock pullet at Dayton, O., 1916. Owned by Leigh Bickett, R. R. 9, Xenia, Ohio.

early in the spring and have been kept steadily growing so they come to laying maturity in October, or early in November at the latest. Pullets which are brought to laying maturity before cold weather overtakes them are easily kept laying by good food and good care. Those are the pullets which pay well for their keep, those are the pullets which it is a satisfaction to have on one's place!

Carrier Pigeons Wanted for the Army.

The 365th Infantry, a crack colored regiment of Camp Grant, Rockford, Ill., is in crying need of carrier pigeons for over-sea duties. The boys are patiently waiting the call to serve “over there,” and the strain that the birds will be under carrying messages to and from the firing line, makes it a rigid necessity that they be of the purest breed. A recent article on pigeons and their war use says: “A trench attacking party is cut off by barrage fire; wires are shattered by shells, semaphoring is impossible. Pigeons are released and at a speed of nearly a mile a minute they fly back to headquarters. This has happened time and again on the western front.”

Persons interested who may wish to lend assistance to this worthy cause in helping the men of the 365th get the doves may communicate with 1st Lieutenant Frank W. Haverstick, 365th Infantry, Camp Grant, and after this war is over and the boys come home victorious, the pigeons if loaned or donated will be returned to the owners.

It is a worthy cause and will be of great help to the men of this regiment.

a very short period, principally due to the injection of well established Light Brahma blood, which required a White Rock cross to give it a good foundation.

Unlike some breeds, it is not necessary to resort to double mating to obtain best results. Single matings will answer every requirement.

TYPE.

Unless a specimen has good Rock type, viz., long body, broad breast, with legs, neck and tail to conform, it is useless to breed the same. Most breeders understand so thoroly what is required as regards type that I will not take up your time in connection with this feature, but will devote myself almost entirely to color markings.

I might say, however, that the type of the female has a greater influence on the offspring than male does, consequently the female end of the mating should receive careful attention in this respect.

HACKLE.

To my mind there is nothing so beautiful in the makeup of a Columbian Rock as a well defined, distinctly marked

hackle, with feathers having broad black centers, edged off with the narrow white stripe. The hackle seems to outshine all parts of the body and naturally should have the most consideration. I do not know of any other section of the body which implies or has so much meaning, consequently every effort should be made to produce good hackles. The black markings should be carried well up to the head and should meet in front. I have heard many judges say that unless the hackle is at least fairly good they would not go to the trouble to take the bird out of the exhibition coop for closer examination. A smutty or smoky hackle is one of the hardest, if not the hardest, defect to outbreed, but it can be done by line-breeding two or three generations on A-1 hackled specimens. A tendency today is to have the white stripe in female hackle feather too wide. The narrow stripe, in my judgment, is the ideal.

TAIL AND SADDLE OF MALE.

The main tail feathers in both male and female should be solid black, also sickle feather of male. The tail coverts of both male and female constitute one of the most important, as well as most beautiful, sections of the color markings. The male tail coverts should have the greenish-black center in web, edged off with narrow white stripe, giving it the appearance of a highly polished feather. Female tail coverts should have solid black centers, edged off with narrow white stripe.

SADDLE IN MALE.

The question of saddle striping in male has been a bone of contention for many years. The present 1915 Standard of Perfection for male says: "Saddle, white, except feathers covering root and sides of tail, which should be white with a narrow V shaped black stripe at end of each feather, tapering to a point near its lower extremity." I do not wish to criticise, but I do think the description of saddle should be more explicit, both as to color of feather and amount of striping. My experience has been that if a saddle feather does not show a distinct black and white or clear white between fluff of feather and the V shaped black stripe, there will exist in its place a smutty or smoky color in that portion of feather. This off-coloring always accompanies foreign color in surface of feathers in the back, and as a rule reproduces itself in the offspring. Some breeders have an idea that saddle striping produces foreign surface color in back of female. This is not true, altho I have known of many cases where a superfluous amount of saddle striping will produce this effect in the offspring.

The amount of saddle striping is another point on which many judges disagree. It is a mistake to have all saddle feathers striped. About one-half or at the most two-thirds of feathers adjoining tail coverts is sufficient. When all saddle feathers are striped, it always accompanies an undesirable surface color in fluff, and outcroppings of black in breast either some distance below or immediately adjoining front of hackle. The Standard fails to make a distinction between different parts of undercolor of saddle feathers. Altho the main part of



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in Rippley Improved Boxes. Strong corrugated cardboard, will stand the weight of 5 men. **CHICK BOXES—Strongest and Best.** Indirect ventilating, no heat or cold, non-crowding. Ship safely any distance. Satisfaction guaranteed or money returned. Order from this advertisement. Sold in 1 doz. packages only. Sample 15 egg. or 25 size chick, 40c postpaid. Full line of poultry supplies at lowest prices. Send now for **FREE BOOK.**

Rippley's Perfect Indirect Ventilating and Non-crowding Chick Box

100 Size—	\$5.00 Per Dozen
50 Size—	\$4.00 Per Dozen
25 Size—	\$2.50 Per Dozen

LIVE CHICKS DELIVER QUICK

RIPPLEY MFG. CO., Box A1, Grafton, Ill., U. S. A.

Riverside Rose and Single Comb White Leghorns and White Plymouth Rocks

First prize winners at Chicago, Milwaukee, San Francisco, Oshkosh, Beloit and many other shows. At National Rose Comb White Leghorn Club Meet, Chicago, 1917, on 15 entries placed every bird. Won 3 firsts, 3 seconds, etc. Also champion male and female, best shaped female and best display. Day-old chix and eggs for hatching from our fine matings.

RIVERSIDE POULTRY FARM, R. 6, Box 3, OSHKOSH, WISCONSIN

BUFF WYANDOTTES Exclusively

Breeder of high class exhibition and utility stock. **FELLOWS' PRIZE WINNING BUFF WYANDOTTES** are all farm raised and the best of winter layers. Stock and eggs for sale in season. Prices reasonable. Eggs for hatching, \$3 to \$10 per 15. Utility eggs, \$7 per 100, \$4 per 50. Send for mating list and egg circular. Mention American Poultry Journal. Address

HARRIET J. FELLOWS - Route 2 - ROCKFORD, ILLINOIS

\$2.50 for 25 to 50 CHICK HOVER

Made of Galvanized Steel. Can be used in any box. Safe and durable. Hot water heat. All complete. Incubator book free. We make 73 different articles.



WENDELL INCUBATOR CO., Holly, Mich.

undercolor should be bluish-slate, it is no detriment to the bird if white undercolor exists for a distance of about one inch from base or quill of feather.

WING FEATHERS.
Primaries should be black, except a narrow white stripe on the narrow side of shaft of web. Secondaries should

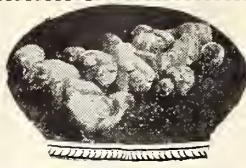
have a much wider white stripe in same portion of feather. Too much stress is laid on wing points. Good wings will not control hackle, saddle or tail feathers.

BABY CHIX

S. C. W.

S. C.

Leghorns



Anconas

Special Sale Prices for May and June

from carefully culled flocks of the above two money-making varieties. "Laying ability" has been the keynote of my efforts, and as the birds have the best of free range in fruit orchards, the chicks are strong, lusty fellows, full of "pep."

Chicks of either of above varieties, each.....\$.18
In quantities of 100 or more, per 100..... 14.50

Hatching Eggs

Per Setting.....\$1.50 Per 100.....\$6.00

RYOTE POULTRY FARM • J. W. Mirfield, Proprietor • CORDOVA, ILLINOIS

GENERAL UNDERCOLOR.

The Standard calls for "bluish-slate" for all parts of body, except breast, where "bluish-white" is called for. In mating up, discrimination should be used and surface coloring favored over both undercolor and hidden parts, notwithstanding the fact that good undercolor is very essential.

GENERAL COLOR MARKINGS.

To produce the ideal Columbian Rock, all parts of the specimen must harmonize. A very dark bird generally runs dark in all sections, including undercolor. The inclination today is to have them too dark, especially the male, in order to bring out the distinct black and white. This is overdone by some breeders, much to the detriment of our breed. It is a mistake to breed the so-called "dark bird" having slate surface color in fluff and a superfluous outcropping of black in surface of breast near hackle and in surface of back near hackle, in order to have a perfect bird in other respects. Such a condition produces anything but a beautiful bird. I do not agree with some breeders, viz., that the birds in the breeding pens should have stronger color markings than that which you may desire to produce in the offspring. The Standard calls for white surface color in breast, back and fluff, and to my idea it is this beautiful white, contrasted with black in hackle, tail and saddle in male and hackle and tail in female, which gave the Light Brahma unparalleled popularity in the past fifty years. "Breed as you exhibit and exhibit as you breed" is the best method. Many breeders claim the breeding male bird should be strong in color, viz., stronger than the Standard calls for, claiming he has predominating influence in color of offspring. Experience has taught me that this is true, providing the females are light in color, in which event, however, the offspring will not be a uniform lot of birds. Uniformity cannot be obtained by a union of two extremes. If the females mated to such a specimen are strong in color, the offspring will be more uniform, but will run too dark, and it is from this source that we obtain the so-called undesirable "dark bird." Better results are obtained by mating a male that is nearest the Standard to females light in color (if you have no Standard colored females) and then mate offspring back to male bird; in other words, line-breed on the male end.

Brassiness in males is generally the result of lack of strong color markings in the parent male and can easily be outbred.

One of the hardest defects to overcome is the appearance of gray in sickle feathers. However, since saddle striping has reached a high state of development in the past few years, this defect has not been so prevalent.

SIDE SPRIGS AND STUBS.

Both of the above have caused considerable annoyance in past years, on account of the Columbian Rock originating from a Light Brahma cross which have pea combs and feathered legs. These defects are now easily outbred by judicious selection of clean single combs and smooth legged birds for breeders.

No. 0 Poultry House Setting Coops Pigeon House

NOW more than ever you must get the very best results from your poultry. Hodgson Poultry Houses will increase your production. They are designed scientifically—extremely sanitary and perfectly ventilated. Send for a Hodgson Poultry catalog in which you'll find pictures, plans and prices of all kinds of pet stock houses. When you buy, the houses are sent to you in painted, fitted sections which can be put together quickly. E. F. HODGSON CO., Room 332, 116 Washington St., Boston, Mass. — 6 E. 39th St., New York City

HODGSON PORTABLE HOUSES

Hatching Eggs
From Sandy's High Grade
WHITE ORPINGTONS

are what you are looking for. My pens are headed by a son of White Prince 1st, young pen male at Chicago Coliseum, 1916 — a grand bird; Son of Prince Arthur 3d, young pen male Chicago Coliseum, 1916, and a Woolery cock bird. They are mated to hens of great size, good color and Orpington type and bone. Many winners will come from these matings.

Prices, delivered, by Parcel Post or Express, Eggs from Mated Pens, \$3 per 15; \$5 per 30. Utility Eggs, \$2 per 15; \$3 per 30; \$6 per 100. Fertility guaranteed.

Order direct from this ad or send for mating list. May hatched chicks are best, so ORDER TODAY. Don't lose valuable time. R. E. SANDY Box 45 STUARTS DRAFT, VIRGINIA

CARBO STEEL POSTS

UNIT SYSTEM cheapest, most durable, sanitary poultry fences.

Bolt together for rigid corner, gate or end posts. Use units singly for line posts or Carbo Drive Posts. First cost of post less than wood. Made any height. Write for Booklet Today.

CARBO STEEL POST CO. CHICAGO HEIGHTS, ILL.
Department 0

S. C. White Orpingtons

At Boston, 1918, on 3 entries I won 1st cock, shape and color specials, 1st hen and 4th pullet, also great winnings at State Show, Portland, Freeport Show, Bangor, etc. Grand show and utility stock for sale.

Eggs For Hatching

from pens containing prize winners. The price of these eggs is very little higher than those asked for common stock, but think of the difference in value of the birds raised. Send for mating list.

JOHN R. JOHNSON Box 13 SO. WINDHAM, MAINE

Kendall's White Orpingtons

WINNERS AT CHICAGO COLISEUM, DEC., 1917
SIX PRIZES ON TEN ENTRIES

EGGS FOR HATCHING Send for mating list. STOCK FOR SALE
KENDALL ORPINGTON FARM H. F. Kendall, Owner VIRGINIA, MINNESOTA

Eggs and Baby Chicks

FROM 200-EGG STRAIN Golden Wyandottes

7 Special Matings. Headed by 1st Cocks at Madison Sq. and Chicago. 2 Flocks of free range stock. EGGS, \$2 per 15, \$3.50 per 30, \$4.50 per 50, \$8 per 100.

Baby Chicks shipped to reach you safely and will live and grow because they are hatched correctly from vigorous stock. 25 cents each. 50 for \$11.50. 100 for \$20. Have you my circular?

J. S. PENNINGTON Box A PLAINFIELD, ILL.

HELP SPEED UP POULTRY PRODUCTION.

Work for Prices On Poultry and Eggs That Will Assure a Living Profit to the Producer.—First Prize Article American Poultry Journal Monthly Contest.

By H. L. WILSON.

ONE of the biggest problems confronting us at the present time is an adequate food supply for our own and our Allies needs. Without this, we cannot hope to accomplish that which we have set out to do. Reports are coming in from every section of the country, telling us of lessened planting areas and of the production of fewer meat animals. This is not a condition prevailing in east and west alone, but the great mid-west which annually produces more foodstuffs than all the rest of the country put together is just as hard hit in their inability to plant increased acreage as any other part of the country. The draft has taken heavily of their skilled labor, the shipyards and munition plants have further robbed them of hands. In the State of Kansas alone, the Secretary of Agriculture is responsible for the statement that his state needs 90,000 more farm hands than are in sight.

We do not know where this labor is to come from, or how the situation will be met, but we do know that every one of us is going to need food two or three times a day as long as we inhabit this little earth. It seems to me that it is the part of wisdom for every one to produce as much as he can during the coming season. I do not see how a shortage in poultry products can be averted this year. I have read reports from every section of the United States on this subject, and everywhere it is the same story—smaller flocks or no flocks at all.

The price of grain is, of course, responsible. It is perfectly natural when a man finds he can buy eggs for less than it costs him to produce them, to decide to sell out his poultry and "let George do it." I have felt that way a great many times during the past year. But we have reached the time when "George" himself, like the worm, is beginning to turn. And I believe the one thing which drove him to it was the fact that we still have those among us who claim a big profit in poultry keeping; men who are using a sort of absent treatment instead of putting common sense to the fore and stabbing at the real ulcer—that of helping the producer to get a fair play. During the past year I looked in vain for real help from the authorities, but I am now convinced that the producer must help himself or fall by the wayside. The following true story will explain my attitude:

A man who is the proprietor of one of the largest poultry farms in the entire country and who is thoroly practical and business-like in his management of the business, finding that he could not possibly eke out a cent of profit under present conditions, decided to attend a conference called by experts, and see what they could offer in the way of relief. He did not expect any real help, but was somewhat curious to know what sort of a front they were putting up. I will not go into detail as to what the speaker had to say. You and I know, for we have heard it a good many times. But my friend, the



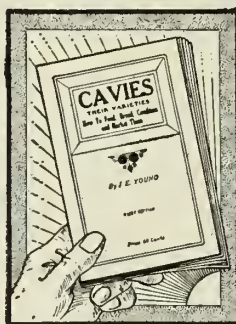
Starks' White Rocks

Winners at Madison Square Garden, 1918

Half Price Sale Begins May 10th

Hatching eggs half price after May 10th. Send for catalog and mating list for detailed description of our matings, our regular prices and guarantee. Our half price sale of breeding stock begins May 10th this year. From a few breeding birds ordered now you can rear a nice bunch of June chicks which will make wonderful breeders next season—start you right and keep you right. Prices quoted in our special sales list now ready to mail means the biggest bargains in America.

STARKS FARM Box 100 STARKS, WIS.



CAVIES

THEIR VARIETIES—HOW TO FEED, BREED, CONDITION AND MARKET THEM

By James E. Young, Licensed Judge, Pres. Chicago Breeders Assn.

Contains chapters on Cavy Breeds and Their Varieties, English Cavies, The Market for Cavies, Housing, Feeding, Breeding, Conditioning for the Show, How to Ship, Diseases and Their Treatment, and chapters of miscellaneous hints. Illustrated with half-tones and line drawings of prize winners of different varieties and hutches for housing. This interesting book covers this profitable and interesting pastime from A to Z. Send for it today.

Price 50 Cents

AMERICAN POULTRY JOURNAL PUBLISHING COMPANY
523 Plymouth Court Chicago, Illinois

FAIR OAKS FARM'S

Famous Barred Plymouth Rocks

More National Club winners the past season 1918 than any breeder living, including 1st and grand champion cockerel, 1st and 2nd cockerel-bred pens, 1st pullet-bred pen, 1 pullet and many others. 22 breeding pens mated for the season. Egg Bulletin on request.

A number of choice birds for sale; single pairs, trios and pens. Big bargains.

FAIR OAKS FARM, Dept. A.
WAUKEGAN, ILLINOIS

P. J. SEXTON, Prop.

B. E. ROGERS, Genl. Mgr.

LOOK! Baby Chicks, \$10 per 100 up

By PARCEL POST, 97% Live Delivery Guaranteed



- Brown or White Leghorns.....\$11.50 per 100
- Broilers.....10.00 " 100
- Barred and White Rocks, R. C. and S. C. Reds, Black Minorcas
- Buff Orpingtons, White Wyandottes.....12.50 " 100
- Anconas.....13.50 " 100
- White Orpingtons, Buff Leghorns, Buff Rocks, Light Brahmas.....15.00 " 100
- White Faced Black Spanish.....16.00 " 100
- Tom Barron's White Leghorns, exhibition grade, with free feed for one month with each order.....20.00 " 100
- Silver Laced and Columbian Wyandottes, exhibition grade... 25.00 " 100
- Black Orpingtons, Silver, White and Golden Campines, Speckled Sussex and Buttercups.....20.00 " 100

Catalog free. Stamps appreciated.

NABOB HATCHERIES, GAMBIER, OHIO

Riley's Barred Plymouth Rocks

May Is the Month

in which to hatch your winners for the winter shows, and Riley's eggs are the eggs that will produce them for you. For the past 15 years highest honors have been won by my customers at the leading shows, and they can be won by you this coming season. Don't delay; send me your order at once. My illustrated catalog and mating list for the asking.

HENRY D. RILEY

Box B

STRAFFORD, CHESTER CO., PA.



VIEWS
ON THE FARM
J. W. PARKS
ALTOONA, PA.

(1) Part of our battery of trapnests. (2) New modern brooder house. (3) Head of vigorous heavy laying bred male. (4) Class in Poultry Husbandry State College inspecting Parks plant. (5) Leading business men and farmers of Central Pennsylvania. (6) A regular after-supper job; giving mail careful personal attention. (7) Pet; record of 206 eggs. (8) The Queen's Taste (utility and beauty combined). (9) Laora; record 277 eggs. (10) J. W. Parks (at wheel) and three local poultrymen upon their return from a 16-day auto trip among New England and Canadian poultry farms. (11) Busy; record 290 eggs.

proprietor of a great poultry farm, listened with some awe, and when the meeting was over, and the audience dispersing, he approached the speaker for the purpose of asking him a few questions. He was not incredulous, neither was he sarcastic, but he merely wanted to be shown how the balance could be placed on the right side of the ledger. The speaker suggested that he make a personal visit to one of the best paying farms in the country, where he could see the actual conditions, free from all theory, and thus be satisfied that a goodly profit is possible. My friend was delighted. It was just what he most wished to do, and upon inquiry, was directed to go to the town of B_____ in his home state. "The name of the proprietor is B_____," said the speaker, "and I am sure he will be glad to see you."

My friend acknowledged that he believed he would be glad to get home, as that was his own name and he was himself proprietor of the farm in question!

I take the stand that this is not a time to take up space, telling the oft-repeated story of big profits in poultry raising. We have suffered heavy losses because of this line of talk. Every man who raises poultry should consider himself a committee of one to abolish this senseless talk, and set to work to make the business what it ought to be, but isn't—profitable. It can be done, and must be done, and when poultry keeping really becomes a profitable business, we want to see our poultry papers and our experimentors in better work than shouting about profits. A business that is not profitable has no right to the name of business, because it is not business, but downright foolishness. When a business is profitable, there is no necessity to keep assuring ourselves and others that we are engaged in a money-making proposition. People can see for themselves and there will be plenty of people eager to engage in poultry culture, and ready to buy stock and eggs from us.

During the coming season I propose raising all the poultry I can afford to feed, because it is going to be wanted for food, and I ask the cooperation of every one who raises poultry to work

Special Sixty-Day Offer



Express Prepaid

Owing to the abnormal conditions poultrymen are up against on account of the war, we feel it our duty to do all we can to help. Our Brooding Devices are dependable. At present one-third of our orders are from poultrymen who ordered a sample early in the season. For the next sixty days we are going to make poultrymen the very best prices possible to make on our Hovers. We will fill your order at the following prices, express prepaid.

- Large Colony Hover, 50-inch Canopy, capacity 500 chicks...\$21.50
- Harrysburg Jr., 40-inch Canopy, capacity 300 chicks..... 18.50
- Coal Stove Connection, complete..... 11.50

These are our regular machines listed in our catalog, equipped with a Wickless Blue Flame Burner, which burns continuously without cleaning. We are in position to fill orders promptly, and guarantee every machine to give satisfaction, or we will refund your money in full. Send for catalog.

HARRYSBOURG POULTRY FARM, Inc. Dept. A, DUNKIRK, N. Y.

DON'T LET MITES, LICE AND DISEASE DESTROY YOUR POULTRY PROFITS

Lee's **Germozone**
For Colds, Roup, Cholera, Sore-Head, Bowel Complaint, etc

Lee's **Lice Killer**
Easily the "World's Best"

Lice—Mites—White Diarrhea—Cholera—Leg Weakness—Chicken Pox—Cannibalism—Feather Eating—Bowel Trouble—Colds—Sore Head—Canker—and Roup are a few of the profit killing ailments which may affect your chicken raising efforts—and which in the majority of instances could have been avoided with a very small investment of time and money if—the ounce of prevention had been used instead of waiting until the pound of cure was needed.

If you are willing to profit by the experience of a man who in 30 years of practical poultry work has solved most of the "profit killing" faults of poultry raising, you are invited to go to your dealer and ask him for the Lee Booklet entitled "Secrets of Success." It's free and it is yours for the asking.

If your dealer is out of Lee Booklets—or if there happens to be no Lee Dealer in your town—write to us direct—telling us your dealer's name, and we will mail you this valuable booklet, "Secrets of Success," by return mail—free.

GEO. H. LEE COMPANY, 302 Lee Bldg., Omaha, Neb.

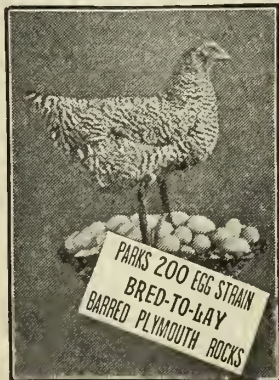
Huber's Baby Chicks

250,000 for 1918. 10 leading varieties. \$1.00 per 100 and up. Chicks that are hatched right from the best laying and exhibition strains. Special combination offer on chicks and brooders. Branch Hatchery at Augusta, Kansas. Give us a trial and be convinced that we will give you the best chicks for the money. Free catalog.

HUBER'S RELIABLE HATCHERY - 317 W. Fremont Street - FOSTORIA, OHIO

3 years—36 issues—of American Poultry Journal for \$1

THE BEST TWO BUYS PARKS' LIBERTY BARRED ROCKS BONDS



The bonds are backed by Uncle Sam and Parks' Bred-to-Lay Barred Rocks are backed by 28 years of conscientious and intelligent breeding for heavy egg production—and they show the results. A flock of 128 averaged 208 eggs in a year. They win at the exhibition shows, egg shows and laying contests, and they will be bread-winners for you.

May and June Are the Most Practical Months for Hatching

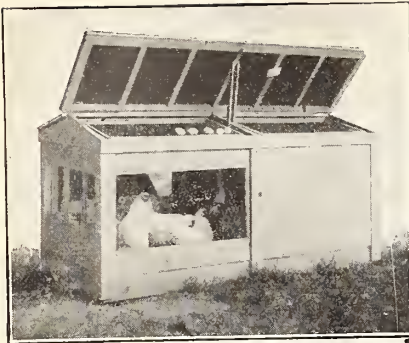
The weather is settled, and the chicks grow like weeds from the jump, and commence laying at a time when past danger of fall months. All nature cooperates to make life easy for the little fellows and they are not in danger of setbacks as are earlier hatched chicks.

EGGS
Scientifically Packed
Eggs Half Price After May 20

CHICKS
That Live
Choice Breeders at Reduced Prices

Large copyrighted catalog tells all about their breeding, laying contest winnings and customers sayings since 1889. With general utility comments and gossip. It's a dime.

J. W. PARKS - - - BOX J, ALTOONA, PA.



Ready-Built Philo System POULTRY HOUSES

Save Time and Money

AS WELL as provide the best possible conditions for the fowls. A trial side by side with old style houses will prove that fowls in the Philo System Coops will mature more quickly, gain more pounds at less cost, lay more eggs, and are freer from disease. Coops come ready to set up; built in complete sections that are quickly screwed together. Cost less than to build old style houses. Sizes from six to 25 hens. Prices \$8.00 to \$35.00.

Send for Free Illustrated Catalog

CYCLE HATCHER COMPANY
1800 Lake Street Elmira, New York
Also manufacturers of the "CYCLE" HATCHER, the best 50-egg all metal, fire-proof incubator. Price \$7.00.

WAKE UP!

— GET STARTED NOW!

with the right breed, and get the best while you are at it. They are

White Orpingtons

Our birds are bred from Madison Square Garden winners, and you can't get better quality for your money anywhere. They have the true Orpington type and laying ability.

Eggs \$2.50 per 15
Order direct from this ad.

I also have a number of good breeders at bargains. Write me your wants. Mating list free.

HARRY DICKEN MANVILLE, ILL.

Yesterlaid are money hens

Profit is fixed in the blood of Yesterlaid Lechorus. Their eggs are big and white. Yesterlaid are far superior to average hens—they lay better in winter and cost less to feed. Three Yesterlaid can be raised at the cost of two ordinary chickens because they are so vigorous and quick growing. Valuable details free.



Rady Roy many 480 Eggs

YESTERLAI EGG FARMS COMPANY, Dept. 5, PACIFIC, MO.

Rogers' Money-Back Poultry Punch

Rogers' Money-Back Poultry Punch has proven to be the ideal punch for the fancier. It is without doubt, the handiest, neatest and most convenient punch upon the market. It punches the hole right—just the right size, and in the right place. Handle never in the way. Used by thousands of poultrymen. Beautifully nickel plated, 45c; plain, 35c postpaid. Circular giving system of punch marking with every order.



"The Best"

T. W. ROGERS, Lamont, Iowa

Inventions Wanted!

Manufacturers constantly writing us for patents. List of inventions actually requested and book "How to Obtain a Patent" sent free. Send rough sketch for free report regarding patentability. Special assistance given our clients in selling patents. Write for details of interest to every inventor.

Chandlee & Chandlee, Patent Attorneys
Est. 21 Years 409 7th St., Washington, D. C.

60 BREEDS chickens, ducks, geese, turkeys, guineas, Collie and Fox terrier puppies. Hatching eggs and stock my specialty. Large, illustrated catalog free. Yours is ready. Write for it today. Edwin A. Souder, Telford, Pa.

for prices on poultry and eggs that will assure a living profit to the producer. The laborer is worthy of his hire, and I believe if we put up the right kind of a fight for fair play, and stand shoulder to shoulder on the proposition, we will be able to make some impression upon the Food Administration. But, if we are to accomplish anything, it must be done thru the producer, for he is the only man capable of looking after his own interests. The nation is looking to the producer to feed the world. I believe every producer stands ready to do his utmost to do so. Now, let the producers look to the nation to pay the bill. There is an old saying, that we cannot get blood out of a turnip. Neither can we get food unless we are willing to pay what it costs to produce.

Let us, therefore, gather our resources together, and altho we have no profits assured us as have woolen manufacturers, munition makers, ship builders and countless others, let us bend our best energies to help feed the world and speed the spread of Democracy. But let us do it with a firm resolve that we ask justice in the handling of the food we produce, and in the payment which we receive for same. If the packing interests are to be assured nine percent profit, that profit must not come out of the producer. The producer comes first. Let him take his profit first, and from my experience with producers, I am sure there is no danger of it being excessive.

BACK-LOTTERS SHOULD SHOW THEIR COLORS.

Reorganize the Business On a War Time Basis.—Not Many Foods Can Be Produced On a Back Lot, But Eggs Are One of Them.—Second Prize Article American Poultry Journal Monthly Contest.

By JOHN C. BLAISDELL, Eastport, Md.

THE U. S. Government and the poultry press thruout the country are rightly advocating the raising of more poultry as a war winning proposition. The back-lotters are especially appealed to in this matter.

As I am a back-lotter, I can only speak from the back-lotter's standpoint. I notice that about all my neighbors have sold their poultry since the price of grain soared to its present heights. Well, I cut down the size of my flock on that account and I suppose the same thing happened all over the country. Everyone seems to have taken it for granted that such is the case. Letters from all sections of the country to that effect have been printed in different periodicals.

Considering this condition it seems to me that now is the time for the back-lotters to reorganize on a war time basis. All lines of business have had to reorganize since the beginning of the war. No business can afford to support a lot of dead heads. We have a branch of a chain of stores in this town. These stores are operated over a large part of the country. Before the war the local store, one of the chain, undersold the other stores in this town. A short time ago the store was closed and a sign stuck up—"Open in two weeks, undergoing repairs."

At the end of that time this store opened up on a war time basis. The building had been remodeled. The store was all on one floor, the counters and

Order Today

—and don't be disappointed. While our stock lasts we offer

NEW Buckeye Incubators

	Regular	SPECIAL	Regular	SPECIAL
E 65 egg	\$10.50	\$ 7.35	\$ 175..	\$29.50 \$20.65
E 120 egg	18.50	12.95	\$ 250..	39.50 27.65
E 210 egg	24.50	17.15	\$ 350	47.00 32.90
S 120 egg	24.50	17.15	\$ 600	70.00 49.00
Mammoth 2440 egg	...\$300.00—\$250.00			

Standard Colony Brooders

	Regular	SPECIAL
500 chick size	.....\$17.50	\$12.50
1000 chick size	.....	21.50 15.50

Buckeye Portable Brooders

	Regular	SPECIAL
60 chick size	.....\$ 7.50	\$5.25
100 chick size	.....	9.50 6.65
150 chick size	.....	12.50 8.75

Terms, cash with order; prices, F.O.B. Des Moines. Order direct from this ad. Money will be returned if order cannot be filled.

FARMERS' HOUSE OF POULTRY
301 Grand Avenue - Des Moines, Iowa

Royal S.C. Black Minorcas

Have won at Chicago, 1916 and 1917. Make your idle back yards produce the large, white eggs and poultry needed by your family—and surplus to sell at long prices. Don't make expensive mistakes; cut out wasteful methods. We are giving a reduction in prices of exhibition and utility eggs for the rest of the season.

ROYAL POULTRY FARM

Box 500 OSSIAN, INDIANA

Columbian Rocks and White Faverolles

Winners at New York State Fair, Cornwall and Madison Square Garden

Eggs—Show Birds—Utility Stock

No matter what you want in these lines, I have it. Write, telling me your wishes.

GEORGE F. LEACH CORNWALL, N. Y.

Your Little Chicks



will need a clean and sanitary receptacle to drink and eat out of. My "SAVACHIC" Fount and Feeder is just the thing. Holds water, feed, sour milk, or grit. It is used in connection with a common milk bottle; made of galvanized iron. 35c each, postpaid; 2 for 60c with my catalog of other poultry supplies. H. A. STEVENS, 146 East Main Street, Batavia, Ill.

BIDDY'S FRIEND Hatcher and Brooder Coop TWO-IN-ONE-COOP

The most convenient coop that ever was offered to the poultry raiser for hatching and brooding chicks. Avoid costly mistakes by hatching your chicks the natural way. Write for a circular. Special introductory offer. Agents wanted. This coop is patented in U. S. A. and Canada.

A. J. Van Ackeren, L. B. 107, Cedar Rapids, Neb.

COLLINS OAT SPROUTER All-metal, fireless, safe, practical. \$3, \$4 and \$8 sizes, delivered. Exerciser and Feeder Attachment only 50c; alone by p.p., 60c. Send for circulars. Dealers and agents wanted.
W. H. COLLINS, 20-G Harrison St. New York

HARNLY'S WHITE ORPINGTONS EGGS BABY CHICKS BREEDERS

at May Barrain Prices

Mary K. Harnly, 2301 Elisha Ave., Zion City, Ill.

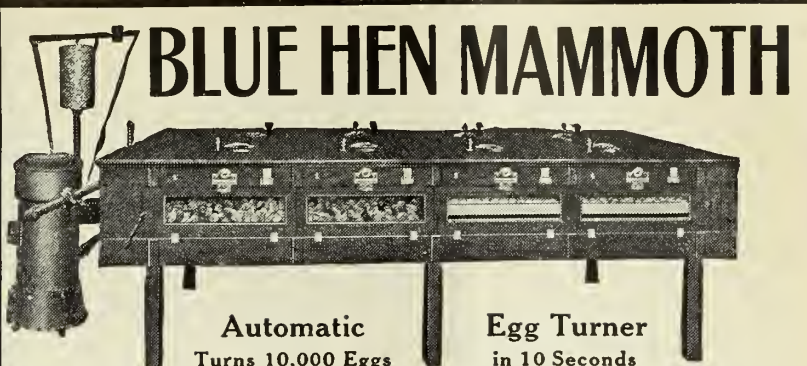
When writing to advertisers, mention the American Poultry Journal.

shelves cut in half, a partition put in and the store only half as large as it was formerly. Where four clerks and a cashier had been employed formerly, there was now only the manager himself and an assistant to wait on customers. The delivery service was entirely discontinued. The horses and wagons were sold. Even the telephone was taken out. They are selling more goods today than they did before and underselling by a considerable margin the other stores.

We back-lotters must make a fresh start on a war time basis. If you have sold out and have not the money to buy another flock and cannot do better, why buy a couple of hens to eat up your table scraps. If they are not inclined to lay, pen them up and fatten them. You will be surprised to find how much flesh a hen will take on in ten days' time. Take the money you are spending at the butchers, buy chickens or hens, and fatten them for your table.

There is no quicker way of raising meat than raising poultry. You will find it cheaper to buy mill feeds and fatten poultry than to buy other meats. If you own a small-sized flock, cull them closely. Don't have a drone about the place consuming high priced grain. At present, I am getting table scraps from my neighbors for they are too valuable to throw away. In place of a grain ration of corn, wheat and oats I substitute oats and barley. I use the usual mash and get fish scraps from the fish markets for the asking, where I used to buy meat scrap at four cents a pound.

The back-lotter must plan to have a bigger garden than ever before. I have also added the growing of Belgian Hares to my back-lot activities. The



BLUE HEN MAMMOTH

Automatic
Turns 10,000 Eggs

Egg Turner
in 10 Seconds

THE BIG-MONEY CHICK FACTORY

Hatch on a big scale. Day-Old-Chicks bring golden rewards for hatcheries. Write for book describing all capacities from 800 to 800,000 eggs. 10 amazing features put the Blue Hen head and shoulders above all others.

FREE BOOK Send a sketch of your present or proposed incubator cellar—we will send free helpful suggestions. Or just say: "Send Mammoth Book."

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WARNER'S A Mother Hen FREE

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S. C. BUFF ORPINGTONS

Chicks from pen matings 50c, 60c, 75c and \$1.00 each.
Pen eggs, finest matings, after May 1st... \$1.50, \$2.50, \$3.75, \$5—per 15.

OUR BIRDS ARE WINNERS at such shows as Greater Chicago, Illinois State, Peoria, Quincy and Monmouth, Ill. Fine males and females sired by champion and color male and second pen male at Greater Chicago Show, 1918, for sale. Fine trios at a reasonable figure.

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Sale of S. C. White Leghorn Hens

Owner is leaving farm and offers his splendid flock of yearlings and 1916 hatched hens at \$1.65 each. These birds are well developed and specially bred for egg production; every one now laying and full of vigor. Also 10 cockerels at \$2.50 and \$5.00 each. First come, first served. Remit to

WESTERN BOX AND BASKET CO. OMAHA, NEBRASKA

Shoemaker Poultry Farm

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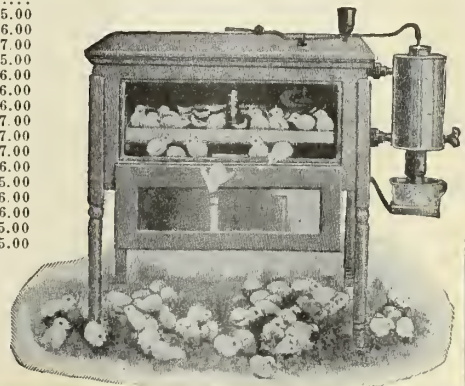
May Hatched Chicks Grow Rapidly

Nature has tempered her moods to meet the requirements of the little fellows, and they grow like weeds under the gentle sunshine. Make this your big hatching month and have the pullets ready to lay next fall and winter.

Start right. Buy

Shoemaker Farm Eggs

	Per 13	Per 26	Per 39		Per 13	Per 26	Per 39
Light Brahmans	\$2.50	\$4.50	\$6.00	R. C. B. Leghorns	\$2.00	\$3.50	\$5.00
Dark Brahmans	3.00	5.50	8.00	R. C. W. Leghorns	2.00	3.50	5.00
Buff Cochins	3.00	.....	.....	Buff Leghorns	2.00	3.50	5.00
Partridge Cochins	2.50	4.50	6.00	Silver Spangled Hamburgs	2.50	4.50	6.00
S. C. R. I. Reds	2.50	4.50	6.00	White Crested Bl. Polish	3.00	.....	.....
R. C. R. I. Reds	2.50	4.50	6.00	Buff Cochin Bantams	2.50	4.50	6.00
Black Langshans	2.50	4.50	6.00	Golden Sebright Bantams	2.50	4.50	6.00
Buff Orpingtons	2.50	4.50	6.00	Mottled Anconas	2.50	4.50	6.00
White Orpingtons	3.00	5.50	7.50		Per 9	Per 18	Per 27
Barred Plymouth Rocks	2.00	3.50	5.00	Mam. Bronze Turkeys	\$5.00	\$9.00	\$13.00
Buff Plymouth Rocks	2.00	3.50	5.00		Per 11	Per 22	Per 33
White Plymouth Rocks	2.00	3.50	5.00	Imperial Pekin Ducks	\$2.00	\$3.50	\$5.00
Black Javas	2.75	5.00	7.00	Rouen Ducks	2.00	3.50	5.00
Dark Cor. Indian Games	2.75	5.00	7.00				
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Silver Laced Wyandottes	2.00	3.50	5.00				
Golden Laced Wyandottes	2.50	4.50	6.00				
Black Wyandottes	2.75	5.00	7.00				
White Wyandottes	2.00	3.50	5.00				
Buff Wyandottes	2.50	4.50	6.00				
Partridge Wyandottes	2.50	4.50	6.00				
Columbian Wyandottes	2.50	4.50	6.00				
Red Caps	2.75	5.00	7.00				
Blue Andalusians	2.75	5.00	7.00				
White Faced Bl. Spanish	2.75	5.00	7.00				
Houdans	2.50	4.50	6.00				
S. C. Black Minorcas	2.00	3.50	5.00				
R. C. Black Minorcas	2.50	4.50	6.00				
White Minorcas	2.50	4.50	6.00				
S. C. B. Leghorns	2.00	3.50	5.00				
S. C. W. Leghorns	2.00	3.50	5.00				



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The test of years has proven them The Best. Thousands of satisfied users have proven their worth. Satisfactory in results and satisfactory in prices.

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Poultry Almanac For 1918

It is a textbook of information. Tells about and shows pictures of the different varieties, incubators, brooders; poultry ills and how to cure them, what and how to feed, how to build poultry houses, etc. Write for it today, inclosing 15 cts.

APRIL IS THE BEST MONTH FOR HATCHING CHICKS

Our pen which won the first place medal for NOVEMBER at the North American contest, laying 45 per cent, was hatched in April and early May. We breed hens for egg-type as dairymen breed cows for milk. Our S. C. White

LEGHORNS

are true egg machines. Pen "A" headed by son of 314-egg hen; Pen "B" by grandsons.

Hatching eggs **LEGHORNS** or **REDS**—Pen A, hens 250 to 280 egg-type, \$5 for 15, \$25 for 100. Pen B, hens 200 to 250 egg-type, \$3 for 15; \$15 for 100. Pen C, hens 150 to 200-egg-type, \$10 for 100. **BABY CHICK** prices on request. The best is the cheapest. **CATALOG**.

HOPEWELL FARMS Box 161-J, HOPEWELL, N. J.

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Mark Your Birds Distinctly Without Numbers
True colors. Correct sizes

Dark Blue Light Blue Yellow
Red Pink Amber Green
Purple Black White



Size for	12	25	50	100	250	500
Baby Chicks	\$.10	\$.20	\$.30	\$.50	\$1.10	\$2.00
Pigeons	.10	.20	.35	.55	1.25	2.25
Growing Chicks	.10	.20	.35	.60	1.50	2.50
Bantams	.15	.25	.45	.75	1.75	3.00
Leghorns, etc.	.15	.25	.45	.80	1.85	3.25
Rocks, Reds, etc.	.15	.30	.50	.85	2.00	3.50
Asiaties, Turkeys	.15	.30	.50	.90	2.15	3.75
Turkey Toms	.20	.40	.55	1.00	2.25	4.00

Postpaid. 12 samples and circular 15c. Made by **M. BAYERDORFFER** HUGUENOT PARK, N. Y.

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Special Bargain Sale on Eggs. Write for mating list. Our strain is one of the oldest as well as greatest strains in America. The greatest winning strain in the central states.

D. F. PALMER & SON Box 35 YORKVILLE, ILLINOIS

S. C. W. LEGHORNS LIGHT BRAHMAS ROUEN DUCKS

Eggs and Stock of above varieties.

C. C. NYE, R. R. 1, Box A, HARRISTOWN, ILL.

Regal Strain

White Wyandottes

from prize winners at reduced prices.

Breeders — Utility Stock — Eggs for Hatching

Write me your wants and send for mating list. I have the quality, the prices are right, and I can please anyone.

H. R. STEVENS HYMERA, INDIANA

Original Scrambled Reds

Eggs, part from \$10, \$5 and \$3 pens, after May 10th, \$4.00 per 15.

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DISEASES OF POULTRY

By D. V. Salmon. 252 pages; 72 illustrations. Every poultryman needs this book. The cause, symptoms, care and remedies for each disease fowls are subject to are given. Price 50c. American Poultry Journal, Pub. Co., 512 S. Dearborn St., Chicago, Illinois

PARTRIDGE ROCKS

BIRD BROTHERS

hares and the poultry consume every scrap of the garden refuse. With a smaller flock and a larger garden, the Belgians fit in fine, as there are usually more greens than the poultry can eat.

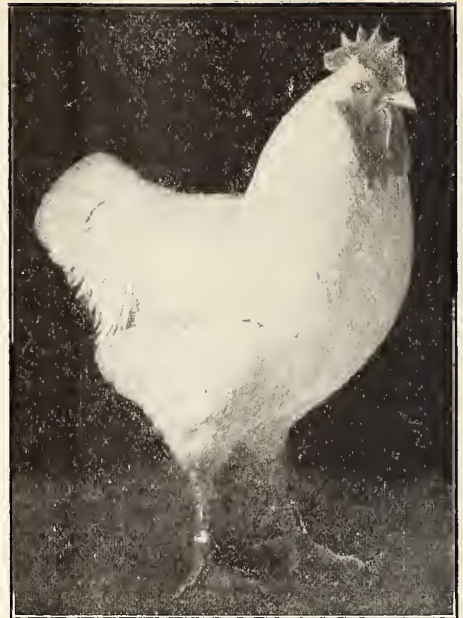
Kill off all the useless sparrows and feed them to the chickens. They supply excellent meat food. It is a good plan now to keep hatching all summer if you have sufficient room to care for the chicks. In fact, it is science. In the summer there is more animal and plant life to feed the chicks, and if there is an opportunity for them to range, they will thrive if given half a chance. I propose to have hundreds of chicks where before I had dozens, keeping up the hatching and eating them, and selling them, as soon as large enough for market or the table. By following this plan, the flock can be carefully culled in the fall when everything they eat has to be bought. But in the summer there is a chance to have a larger flock, because of a greater variety of food stuff to be had for the picking, and very little housing being necessary until cold weather comes.

The back-lotters who have quit should stop to consider that grain is not the only thing that is high. Meat is high and practically everything we eat is advanced in price. We shall all have to keep on eating just the same, no matter what the price. While poultry products are still low in price, considering their cost, the back-lotter will find it pays to grow his own poultry and to have eggs from his own flock. The labor can be performed out of working hours and gives pleasant relaxation. There is no better meat grown at any price and it is always on hand. Eggs are one of the best foods for man, woman or child. We can't all keep a cow on a back-lot, but most of us can keep a flock of poultry and grow a good part of our meat supply at home.

The equipment need not cost much. Most every place has some kind of poultry house in a country town. Sometimes there is a shed or barn that can be used, or a small poultry house can be erected out of waste lumber, or packing cases. There are plenty of portable poultry houses for sale at reasonable prices, cost of lumber considered.

Anyone who has been accustomed to having a flock of poultry in the back lot and who has been scared out by the high cost of grain will soon realize what his flock of poultry meant to him. There is nothing like having good fresh-laid eggs from your own fowls, and an occasional roast or fry when culling out non-productive birds. It will only be necessary to count up the money paid out for eggs and meat to take the place of those produced at home to convince the average back-lotter that it is wiser to stay in the game, even tho paying the grain bill hurts.

To all back-lotters, I would say this is a bad time to fall out. We will each



Second prize White Plymouth Rock cock at Milwaukee, Wis. Owned by A. F. Poldt, Hartford, Wis.



First prize S. C. White Orpington hen at Indiana State Fair, 1917. Owned by Frank W. Jacobs, 2027 W. Nichol Ave., Anderson, Ind.

and every one have to do our share at this time, and especially should be willing to help feed ourselves. There are few foods which a back-lotter can raise, but eggs are one of them.

Paying Investment for Poultrymen.

If there are any readers of this paper who would like to invest a little money in a poultry proposition that will pay them a good dividend, I would be glad to put them in touch with same. Dividends will be guaranteed to anyone who will invest a reasonable amount and also includes a good position for the right party. The work would include outdoor work with poultry and office work. Good opportunity for some one. Write to T. E. Quisenberry, Leavenworth, Kansas.—Adv.

Madison Square Winners. Year after year they sweep the show. Eggs, Show and Breeding Stock for sale. Send a stamp for either Partridge Rock or Turkey catalog.

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NEW AMERICAN BREED — Patriots; color, red, white and blue. Send for circular. Westboro Farms, Westboro, Mass 4-6

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S. C. ANCONAS—Sheppard Strain, heavy layers. Pen 1, 15 eggs, \$2; 30, \$3.50; 50, \$5. Flock, 15, \$1.50; 100, \$7. After June 15, fifty Ancona hens at \$1.25 each. Ella Whitwood, Hudson, Ill. 2-5

CARDELL'S PEERLESS STRAIN Single Comb Anconas; eggs, \$2 and \$3 per 15, from 237 to 281-egg hens; mating list. F. L. Cardell, Northfield, Vt. 5

S. C. ANCONAS—Eggs, 15, \$1.50; chicks, 20c. Bessie Brinkerhoff, Springfield, Ill. 5

ANCONAS—SINGLE COMB. Cockerels, 8 weeks old, \$1.50 each. Cleve Fenerhaken, Ontarioville, Ill. 5-7

ANCONAS — CHICKS, \$15 per hundred. Eggs, \$6 per hundred. John Biehler, Strasburg, Ill. 3-6

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BUY YOUR SINGLE COMB Ancona eggs for hatching and baby chicks this season from a trap-nested winter laying strain. We have them. Descriptive price list free. H. E. Errett, Box B, Nevada, Mo. 3-5

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ANCONAS EXCLUSIVELY—Either comb; winners at leading shows; winter layers; mating list now ready. Excellent quality for the prices. Chester C. Miller, Berlin, Neb. 3-5

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SINGLE COMB ANCONAS—Leading strain. Carefully bred, trapnested and exhibition quality. Eggs, 15, \$3; 30, \$5.50; 100, \$14. Fertility guaranteed. Sunny Brook Poultry Farm, Niles, Mich. 3-5

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TRUE BLUE ANDALUSIANS (the beauty breed—the birds that lay and pay) bred from and for prize winners with pure blue and finely laced markings; large, weighty, white eggs and lots of them all year. Settings, first pen, \$2.50; second pen, \$1.50 per fifteen eggs; hundred lots special price. Gus A. Kneussl, Ottawa, Ill. 2-5

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BARRED ROCK BABY CHICKS—Good stock. Rock Range Poultry Yards, Sauk City, Wis. 3-5

4,000 RHODE ISLAND RED chicks weekly in March, April, May, June, from novel, evenly heated, 18,000-egg gas hatchery from New England's best winter egg layers at \$18 per 100. Arthur B. Colby, 559 S. Main St., Manchester, N. H. 3-5

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REGAL STRAIN WHITE Wyandotte chick—Table use. \$13 per 100; 250-egg line, 25 for \$14.50. Remember these are show birds that will win. We replace dead chick. Mrs. Julius Arp, Okoboji, Iowa. 4

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DAY-OLD CHICKS from large winter laying S. C. White Leghorn yearling hens. Also Barred Rock, Rhode Island Reds and several other popular varieties of chicks. Booklet free. Richard Schwartz Lomira, Wis. 3-5

BABY CHIX—\$15 per 100, from healthful, selected, yearling hens, mated to males out of 200 to 249 egg record dams. Eggs for hatching from same only \$7.50 per 100. Write for mating list. Dr. Prudhomme, Thurmont, Md. 3-5

BABY CHICKS—20 leading varieties. Safe delivery guaranteed. Price list free. Largest hatchery in Middle West. Miller Poultry Farm, Box T, Lancaster, Missouri. 3-5

50,000 **BABY CHICKS**—Two and four weeks chicks. S. C. White, Brown Leghorns, Black Minorcas, Barred Rocks; hatching eggs. Catalog, stamp. Failing Poultry Farm, La Fargeville, N. Y. 3-7

BABY CHICKS—LEGHORNS, \$11; \$100 per 1,000. Barred Rocks, \$13; \$120 per 1,000. Reds, White Rocks, Wyandottes, \$14; \$125 per 1,000. Orpingtons, Anconas, Minorcas, Campines, \$15; \$130 per 1,000. Pound pullets and cockerels, \$70 per 100; \$600 per 1,000. Chicks for June and July. Leghorns, \$9; Barred Rocks, \$10; Reds, Wyandottes, White Rocks, \$12; Orpingtons, Anconas, Campines, Minorcas, \$14. Discount by the 1,000. Delaware Hatchery, Delaware, O. 5

CHICKS FROM HEAVY laying strains of S. C. Anconas at \$14 and S. C. White Leghorns at \$10 per 100. M. D. Wyngarden, Zeeland, Mich., Route 4. 3-5

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S. C. W. LEGHORN BABY CHICKS—Heavy laying strain. We use only yearling hens in breeding pens. \$15 per 100. Wales' Leghorns, Box 441, Downers Grove, Ill. 5

SIX WEEKS OLD chicks, 39c each; pound size, 70c. All varieties. Best strains, 250 eggs. Winter Egg Farm, Hillsboro, Ill. 5

BARRED ROCK BABY CHICKS—12 cents; eggs, \$1 per 15; \$6 per 100. Elmer Lindstrom, Clinton, Mo. 5-6

BABY CHICKS—Standard bred. The better kind. Leading varieties. See ad in this issue. Seneca Poultry Farm, Box 4, Tiffin, Ohio. 3-5

PURE BARRON LEGHORN chicks—278-egg imported stock. G. L. Poole, Garrettsville, Ohio. 3-5

BABY CHIX—YOUNG'S strain S. C. W. Leghorns and B. P. Rocks; free range stock; safe delivery guaranteed; catalog free. Knoll's Hatchery, Holland, Mich. Rt. 3. 3-5

CHICKS—200,000 BARRED Rocks, Rhode Island Reds, and S. C. White Leghorns. Nittany Valley Poultry Farm, Mingoville, Pa. 3-5

BABY CHICKS—Rocks, Reds, Anconas, Leghorns, Lakenvelders, \$15 per hundred. Hampshire pigs, \$15 each. Darknell Hatchery, Pine Island, Minn. 3-5

BABY CHICKS—Fine leading varieties. Send for circular and prices. If you want chicks, order early. Mapleton Farm and Hatchery, Box A, Keystone, Iowa. 2-5

BANTAMS.

HATCHING EGGS—SILVER Sebrights and Black Tail Japanese Bantams. Frank W. Mains, Farmingdale, N. J. 5

WHITE CRESTED AND Bearded Polish Bantams. Cockerels for sale. Eggs \$2 and \$2.50 per 15. M. L. Musselman, 150 W. Fairview St., Bethlehem, Penna. 5-6

BLACK TAILED JAPANESE Bantams—First and second prize pullets at Galt, second cockerel at Toronto, Ontario, 1916, and other show birds. Eggs, \$3 per 15. W. L. Richter, Kenwood Ave., Elkhart, Ind. 5

BANTAMS—TRIO BLACK Cochins, \$7; pair Golden Sebrights, \$4; Silky hens, \$3 each. Robert L. Hale, Shelbyville, Ind. 5

GOLDEN SEBRIGHT BANTAMS—Blue ribbon winners at Missouri State Fair and other shows. Eggs, \$1.50 per 15. Good birds, \$1.50 each. C. E. Wesner & Son, Windsor, Mo. 5

EGGS FROM HIGH-CLASS Buff Cochins Bantams. Pen 1, \$1.50 per 15; Pen 2, \$2 per 12. Den Tomlinson, Browns, Ill. 5-6

GOLDEN SEBRIGHT BANTAMS—Little beauties, prize winners five shows; males for sale; mating list free. Eggs, \$1.50 for 15. Lynn Stafford, Waucoma, Iowa. 3-5

BANTAMS—BLACK ROSE Combs and all varieties of Cochins and Sebrights. Winners at America's largest shows. Wm. Rogers, Baldwin Ave., Oxford, N. Y. 3-5

TRIANGLE BANTAM YARDS, Oil City, Pa.—Choice Rose Comb Blacks; eggs, \$2.50 per setting; every bird in our yards a winner. 3-5

BLACK, BUFF AND Partridge Cochins Bantams; good color, type and size; eggs in season, \$2, 13. James W. Elliott, Decatur, Ill. 3-5

GOLDEN SEBRIGHT BANTAMS—Miniature beauties. Stock, eggs. F. L. Reinhart, Ottumwa, Iowa. 3-5

R. C. BLACK BANTAM eggs. Catalog free. Show winners. Jay Beswick, Berea, Ohio. 3-5

MOHAWK STRAINS SUPERIOR—Game and Cochins Bantams, state winners. Mohawk Bantam Yards, Schenectady, N. Y. 4-6

BANTAM SPECIALIST—Buff, Black, Partridge Cochins, Light and Dark Brahmans. I ship on approval. Circular free. Geo. C. Salmon, Port Dickinson, N. Y., Route 4. 1-17rf

BRAHMAS.

LIGHT BRAHMAS—At Cleveland we won 1st and 2d cock, 1st hen, 1st cockerel, 1st pullet. Hatching eggs, \$3 and \$5 per setting. Pullets and cockerels, \$5, \$7.50 and \$10 each. Geo. C. Wright & Son, 2335 Riverside Road, Lakewood, O. 5-18-1f

THOROBRED LIGHT Brahmans—Eggs for hatching, \$2 for 15; \$3 for 30. Catalog. Reams Brothers, Boonville, New York. 5

SUEPPEL'S DARK BRAHMAS are the champions of the world, having won 1st prizes at Panama Exposition, California, St. Louis and Chicago world shows. Best winter layers. Grand stock for sale. Eggs, \$5 per 15. John W. Sueppel, Iowa City, Ia. 4-6

LIGHT BRAHMAS exclusively 24 years—Eggs, 30, \$3; 100, \$8. Hilmen Gaarder, Kentsville, Iowa. 5-6

MAMMOTH LIGHT BRAHMA hens, \$2.50 each. Hatching eggs. A. Moritz, Rahway, N. J. 3-6

FOR SALE—DARK BRAHMA, Partridge Cochins eggs; bred forty years. Wilbur F. Wright, Lapel, Ind. 3-5

LIGHT BRAHMAS—Stock and eggs at reasonable prices. Also White Orpington and White Leghorns. All birds trap-nested and pedigreed. Write us your wants. Putnam & Sons, Harvard, Ill. 3-5

DARK AND LIGHT BRAHMAS, winners Iowa, Illinois state shows; eggs reasonable. Herman Weinrich, Cambridge, Ill. 3-5

LIGHT BRAHMAS—Felch strain; stock, eggs, baby chicks. Mrs. Wm. King, Genoa, Ill. 3-5

LIGHT BRAHMA EGGS for hatching, \$2 per 15. Aaron J. Feitsho, Goshen, Ind. 3-5

LIGHT BRAHMA EGGS from Indianapolis winners, \$2 and \$3 per 15. Circular free. Lora Vandiver, Franklin, Ind. 3-5

LIGHT BRAHMAS—Eggs for hatching, from heavy laying strain. Eggs, 15, \$2; 30, \$3.75; 60, \$7.25; 100, \$11; 200, \$21. Henry Harnisch, Onalaska, Wis. 4-6

BUCKEYES.

BUCKEYES—STOCK AND eggs. Prices reasonable. Lindley Place, Meshoppen, Pa. 4-5

BUTTERCUPS.

LOYALTY OFFER—Buttercup eggs from my winners at \$2 per 15, if ordered directly from this ad. May or June. H. Court, Kankakee, Ill. 5-6

"VICTOR" BUTTERCUPS—Write for special prices on eggs from my Madison Square winners. Arthur Loper, Box J, Bridge Hampton, N. Y. 5-6

MY STOCK AGAIN wins display at Madison Square Garden; 2 cock, 1-4 hen, 5 cockerel, 1-3 pullet, 1-3 pen. Booklet; eggs, stock, baby chicks. Hattie D. Reed, Marcus, N. Y. 5-6

BUY SICILIAN BUTTERCUP eggs. Mattie Robb, Oak Grove, Mich. 5

SICILIAN BUTTERCUPS, excellent layers; 15 eggs, \$1.50. Hazel Whitwood, Hudson, Ill. 3-5

BUTTERCUPS—HATCHING EGGS, \$2.00 for 15. A. Lillis, 445 N. Saginaw St., Pontiac, Mich. 3-5

GOLD COIN BUTTERCUPS—See page 554. O. B. Disenroth, Lawrence, Mich. 1-18-1yr

BUTTERCUPS—BRED TO LAY and win; the kind you want. Stamp for booklet. Wm. Freise, La Crosse, Wis. 4-6

CAMPINES.

CAMPINES—GOLDEN AND Silver; hatching eggs from my best, \$5 for fifteen; large catalog with beautiful colored plates and history for ten cents. J. Fred N. Kennedy, Birchcliffe, Ont., Can. 3-5

SILVER CAMPINES for eggs in winter. Eggs, \$1.50 per 15. E. C. Aderhold, Plymouth, Wis. 3-5

GOLDEN CAMPINES—EGGS! Quality! Vigor! Prize stock. Carver's strain, \$2 and \$3 per 15. Nelson Bennett, Poughkeepsie, N. Y. 4-6

COCHINS.

SOME FANCY BUFF Cochins priced reasonable. F. Neudecker, Sleepy Eye, Minn. 5

BUFF AND PARTRIDGE Cochins, winners Iowa, Illinois; state shows. Eggs reasonable. Herman Weinrich Cambridge, Ill. 3-5

CORNISH.

CHAMPION STRAIN DARK Cornish—The kind you have been looking for. Eggs, 15 for \$3.50. Prize winning. L. E. Canfil, Richland, Mo. 5

WHITE CORNISH EGGS, \$2.50-\$5 per 15. Woodford Poultry Farm, Station M, Cincinnati, Ohio. 3-5

DARK CORNISH—Thorobred exhibition stock. Fine laying strain. 15 eggs, \$2.00; 45, \$5.00. S. A. White, Box A, Timberville, Va. 3-5

DARK CORNISH COCKERELS, \$5 each; pullets, \$3 each. Two prize winning cock birds, \$10 each. Eggs, \$3 per fifteen. These birds were all raised from imported stock. John Blanchard, Columbus, Wis. 3-18-1f

WHITE CORNISH FIRST prize, New York, Providence, Syracuse, Hartford; eggs, \$3 for 15, \$5 for 30. L. J. Smith, Deep River, Conn. 2-4

WHITE CORNISH—Royal. Eggs, \$2 per 15; \$5, \$5. Springbranch Poultry Farm, Bellville, Ohio. 4-6

DARK CORNISH—Many firsts and specials. Handsome booklet. Carl W. Beck, Table Rock, Neb. 4-6

DOMINIQUES.

MY DOMINIQUES WON more first prizes in competition than any other strain in the Northwest at the leading state shows. Eggs for hatching, \$2 for fifteen; \$10 per hundred. Lawrence Holsten, Columbus, Wis. 3-5

DORKINGS

WESTFALL'S CHAMPION SILVER Dorkings—A combination of wonderful beauty and greatest market value; bred to weigh, lay and pay. These are chicks that grow two pounds at two months. More first prizes, silver cups and specials at New York, Boston and Buffalo than all competitors combined. Few birds to spare. No baby chicks. Eggs from best matings, \$4 per 13; \$7 per 26. Watson Westfall, Sayre, Pa. 2-18-1yr

GAMES.

EGGS FROM CHOICE pen Invader B. B. Red Pit Games at \$1.50 per 13. Box 347, Gary, Ind. 4-6

GOLDEN PENCILED HAMBURGS

GOLDEN PENCILED HAMBURGS—I have the finest matings I have ever had in this variety. My birds have won the highest honors at Madison Square Garden, Boston, and the Palace, Syracuse. A limited number of eggs will be sold; \$10 for 13, and special matings \$15 for 13. John A. Gamewell, Box No. 1, Little Silver, N. J. 4-5

HAMBURGS.

SILVER SPANGLED HAMBURGS. Black Diamond strain. Highest honors at Madison Square and leading shows of America. Eggs, \$3.00 and \$5.00 per 15. If you want the best and birds that can win in any competition you should order stock or eggs from Will L. Clark, Sullivan, Ohio. 3-16tf

HOUDANS.

HOUDANS—278-egg strain Silver Spangled Hamburgs; trapnested 7 years; eggs, chicks; circular. Fred Brenon, 122 N. Pleasant St., Watertown, N. Y. 5-6

JIMCRACK HOUDANS—Supreme in Canada; consistent winners and layers; choice stock and eggs. Jimcrack Houdan Farm, Valentia, Ont., Can. 3-5

HOUDAN AND SILVER Grey Dorking eggs, \$2 per 13. H. Merriam, Ashburnham, Mass. 4-6

HOUDANS—WINNING STRAIN—1st, 2nd cockerel, 1, 2nd pullet, 1st hen at Minneapolis; 1st cockerel, 1st, 2nd pullet, 1st hen at Milwaukee National Auditorium Show, 1918. Eggs, \$3. W. H. Hunt, River Falls, Wis. 4-6

HOUDANS AS THEY should be; all firsts; best display Madison Square; my strain all ways wins the blue; eggs, stock, circular. H. Dunne, Silver Spring, Md. 2-5

LAKENVELDERS

LAKENVELDERS—EVERLASTING layers, supremely beautiful; eggs, \$2 for 15. Hermitage Farm, Milersburg, Ohio. 5-6

LAKENVELDERS—EGGS for hatching from famous layers. Catalog. C. E. Patterson, Cardington, Ohio. 4-6

LAKENVELDERS—FINE young stock at reduced prices. Dr. C. J. Chamberlin, West Chester, Ohio. 3-5

LAKENVELDERS—STOCK and eggs. Rosemer Fruit and Poultry Farms, Eaton Rapids, Mich. 4-5

LAKENVELDER EGGS, \$1.50 per 15; extra selected, \$2 per 15. Alma Eichelmann, Route 4, Waterloo, Ill. 3-5

LANGSHANS.

TRAPNESTED BLACK Langshans—200 to 273-egg strain. Catalog. Lorenz Co., Perryville, Mo. 1-5

FOR SALE—WHITE Langshan stock; also eggs, \$6 per 100; baby chicks, \$15 per 100. Fred Wallace, Maryville, Mo., R. R. 3. 5-6

BLACK LANGSHAN EGGS—\$1.50 for 15. Order early. Mrs. John Henderson, Leland, Ill. 5-6

WHITE LANGSHANS of quality. Stock and eggs for sale. Alonzo Tyner, Greenfield, Ind. 3-5

BLACK LANGSHANS from a prize winning, trapnested, heavy winter laying strain. Pen 1, 15 eggs, \$3; 30, \$5; 50, \$8. Flock, 15, \$1.50; 50, \$4; 100, \$7. Ella Whitwood, Hudson, Ill. 2-5

S. C. WHITE LEGHORNS

TOM BARRON Single Comb White Leghorns. Free catalog shows lifelike pictures of our long, deep bodied, big combed thoroughbreds from Barron's 1914 Stars contest prize pen mated to imported 278-282 egg pedigree males; positively the highest egg record Leghorns he ever sent to America. Hatching eggs, \$7; chicks, \$15 per hundred. Northland Leghorn Yards, Grand Rapids, Mich. 5

WE HAVE 100 S. C. White Leghorn pullets, the result of six years trapnesting and selective breeding for quick maturity, heavy average laying and vigorous health for sale. Early hatched free-range fowls that will make ideal foundation breeders for paying flocks. \$4 and \$6 each. No roup on our farm for 3 years. Also 6 weeks and 4 months old pullets and cockerels for future delivery. Maurice H. Decker, Route 3, La Porte, Ind. 5

BARRON-YOUNG S. C. W. Leghorns—Eggs, 15, \$1.25; 100, \$5.50. Sweet Briar Farm, Ontarioville, Ill. 4-5

S. C. WHITE LEGHORNS—Smith and Hering strains. Hatching eggs, \$6 per 100. Baby chicks, \$14 per 100. Four and six weeks old chicks. Write for circular. Breezy Hill Poultry Farm, Mokena, Ill. 5-7

SINGLE COMB WHITE Leghorns—236-egg bred, past the danger rearing stage, laying built, heavy producing bred, thrifty two months old, soon to lay pullets, 80 cents each for June, July, August delivery. Make persistent fall and winter layers and handsome breeders. Order now and be satisfied as an army of old customers. Circular. B. J. Woodmansee, Highland, Ohio. 5

SINGLE COMB WHITE Leghorns—Young's strain direct. Eggs of heavy layers, \$1 per 15; \$3 per 50; \$5 per 100; \$10 per 200. Order filled at once. Henry Heitkamp, New Bremen, Ohio. 5

WORLD'S RECORD LAYING strain Australians; setting, \$2. Philmon Goodell, Cohasset, Minn. 5-6

FINE PEN OF 24 selected S. C. W. Leghorn breeders. Heavy laying strain. A pen of our best birds, \$18 per doz. Cockerels, \$2.50 each. Wales' Leghorns, Box 441, Downers Grove, Ill. 5

\$3.25 PER 100 EGGS—Welday's English-American S. C. White Leghorns; world's leading layers; catalog. Welday, Seville, Ohio. 5

BARRON'S WHITE LEGHORNS—Special mated pens headed by males from heavy laying dams. All females trapnested from first day of laying. Mating list free, explaining all. Eggs half price after May 15th. F. W. James, Waukegan, Ill. 4-5

SINGLE COMB WHITE LEGHORNS—Young's. Pure white low-tailed cockerels, \$7.50. Fifteen eggs, \$2.50. Fifty for \$7.00. Hundred for \$12.50. Fifty chicks, \$14.00. Egg record, 274. Meadow Farm, Coulterville, Ill. 5

SINGLE COMB WHITE Leghorns—Large sized; 295-egg record; eggs, \$2 per 15; \$6 per 100; \$10 per 200; chicks, 20 cents each; prepaid. Mrs. E. R. Dees, Waltonville, Ill. 5

S. C. W. LEGHORNS—Barron strain. Barred Rocks, Parks' strain. Eggs, seven cents each. Thos. M. Keller, Dongola, Ill. 5

FOR SALE—100 Single Comb White Leghorn yearling hens at \$1.25 each. Highline Poultry Farm, Pisgah, Iowa. 5-7

BLANCHARD - WYCKOFF - BARRON heavy laying White Leghorns. 30 eggs, \$1.75; 100, \$5. 100 chicks, \$13. Catalog. Write W. A. Albers, Lombard, Ill. 5

SINGLE COMB WHITE LEGHORN eggs, from blue ribbon winners; large, blue-white quilled, heavy layers, scoring to 95%. \$2.50 per 15; fine fock eggs, \$1.25 per 15, \$7 per 100. Sadie Sunderland, Jerseyville, Ill. 3-5

SINGLE COMB WHITE Leghorns with records up to 245 eggs. Eggs, 15, \$1.25 to \$4. All males are bred from hens with records of 200 or better. Circular free. J. O. Pierce, Mohawk, Tenn. 3-5

TOM BARRON'S WHITE LEGHORNS exclusively. We imported direct. Egg record, 270 to 282, \$1.50 per 15; \$6, 100; fertility guaranteed. Chicks, 12c. We use a 15,000 incubator; prompt shipment; catalog free. Raymond Michaels, Tiffin, Ohio. 3-5

SINGLE COMB WHITE Leghorns—Young's direct from Madison Square winners; pure white (no brass); heavy winter layers; eggs, \$1.50 per 15; \$6, 100; fertility guaranteed; 1,000 layers' chicks 12c; catalog free. Hedgewood Farm, Tiffin, Ohio. 3-5

HELP SWAT THE KAISER with Tom Barron Single Comb White Leghorns; all male birds have an egg record of more than 260 eggs in one year. Eggs, \$1.50 per 15; \$6 per hundred. Geo. Morrison, Batavia, Iowa. 3-5

SINGLE COMB WHITE Leghorn eggs from trapnested stock, \$2 per 15. L. P. Bradley, Virden, Ill. 3-5

SINGLE COMB WHITE Leghorn hatching eggs. Standard-bred, great layers, \$1.25 per 15, \$6 per 100. Oscar Polster, Wheaton, Ill. 3-5

EGGS FOR HATCHING—Single Comb White Leghorn chicks. Buckeye Egg Farm, Sherodsville, Ohio. 3-5

WYCKOFF S. C. WHITE Leghorns—65 acres range. Trapnested, high record hen chicks, from large white eggs, \$25. Supply limited. Book early. 25 percent with order; no catalog. Inwood Farm, Middleburg, Pa. 3-5

ENGLISH WHITE LEGHORNS—Barron strain; eggs for hatching, \$2 per 15. Circular free. White Leghorn Yards, Nelsonsville, Ohio. 3-5

S. C. WHITE LEGHORN eggs, \$2 per 15; \$10 per 100. C. O. Tankersley, Lewisburg, Tenn. 3-5

TOM BARRON STRAIN S. C. White Leghorns—We are booking orders for eggs and baby chicks. Send for circular. Seneca Fancy Table Egg Farm, Tiffin, Ohio. 3-5

S. C. W. LEGHORN hatching eggs from 264-egg strain hens, mated to one of Lord Farm's best cockerels. He is a fine bird from high egg strain, \$3 per 15; range stock, \$2 per 15, \$10 per 100. Joe S. Troutman, Salem, Iowa. 3-5

S. C. W. PEDIGREED Leghorns—Come from stock that won first at Missouri Egg-Laying Contest. Satisfaction guaranteed. Eggs, 15, \$1.25; 50, \$4; 100, \$7. A. L. Ackerman, Rich Hill, Mo. 3-5

YOUNG'S STRAIN SINGLE Comb White Leghorns—Flock average, 140. Eggs from two-year-old hens, \$2 per 15, \$8 per 100. West Side Poultry Yards, Reedsburg, Wis. 3-5

SINGLE COMB WHITE LEGHORNS—Ferris 230 to 260-egg strain. Great winter layers. Eggs, \$3 per 15, \$5.50 per 30. Chas. E. Rodgers, Montgomery, Mich. 3-5

SINGLE COMB WHITE LEGHORNS—"Chin Haven" strain. Hatching eggs, one dollar and fifty cents for 15; eight dollars per hundred. Baby chicks, twenty cents each. D. F. Swindell & Co., St. Joseph, Mich. 3-5

STOCK AND EGGS from beautiful, snowy Single Comb White Leghorns, 100, \$5. Also bred-to-lay Barred Plymouth Rock eggs. Carefully packed. Mrs. R. A. Homer, Box 95, Smithfield, Ill. 3-5

TRAPNESTED SINGLE COMB White Leghorns. Big records. Eggs priced low. W. R. Scrivner, Dahlgren, Ill. 3-5

SINGLE COMB WHITE LEGHORN eggs—Proposition something new. Hillside Poultry Farm, Council Bluffs, Iowa. 3-5

STANDARD-BRED SINGLE Comb White Leghorns; cockerels, \$1.50 each; 100 eggs, \$5. Bearden Poultry Farm, Thayer, Ia. 3-5

S. C. WHITE LEGHORNS—Farm range; 500 layers. Large white eggs, \$6, 100; \$55, 1,000. Chicks, \$14, 100; \$135, 1,000. E. H. Burcham, Medora, Ind. 3-5

SINGLE COMB WHITE Leghorn eggs for hatching. Pen headed by Wyckoff strain direct. \$1.50 per 15, postpaid. H. C. Harris, Stillman Valley, Ill. 3-5

WHITE LEGHORNS THAT lay and win. Birds and eggs at low prices. J. A. Shine-man, Canajoharie, N. Y. 3-5

S. C. WHITE LEGHORNS—Selected and bred by Hogan System. Score, 250 eggs, 3/4-inch in prepenalty. Granview Poultry Farm, Geneva, Ohio. 3-5

S. C. WHITE LEGHORNS—Baby chicks, 20c each; and pullets, \$2. Barron strain. Bred to lay; large, long bodied birds. Forty-acre apple orchard for range. Folly Cove Farm, Holland, Mich., F. E. Brummer, Mgr. 3-5

YOUNG'S AND BARRON'S strains Single Comb White Leghorns on two different farms; eggs from farm range stock hatch better and are thrifty eggs, \$6 hundred. O. B. Williams, Tuscola, Ill., Route 5. 2-5

SINGLE COMB WHITE LEGHORN eggs for hatching, \$7 per 100; baby chicks, hens and pullets for sale. Geo. C. Sayres, Cincinnati, Iowa. 2-5

SINGLE COMB WHITE Leghorn eggs from prize winning stock, \$1 per 15, \$5 per hundred. Henry Gausman, Batesville, Ind., Route 4. 2-5

SMITH STRAIN SINGLE Comb White Leghorns. Eggs, \$1.50 setting. Baby chicks, \$15 per 100. Best display at Huntington and Charleston, W. Va. Write for mating list. McKee Poultry Farm, Greenup, Ky. 4-5

S. C. W. LEGHORNS—Eggs for sale, \$5 per 100. Wm. Teuscher, Fisher, Ill. 4-6

HOPKINS' SINGLE COMB White Leghorns—33 winners, including 10 grand championships at Iowa State, Davenport and Osage Shows. 100 eggs, \$7 up; 100 chicks, \$15 up. Mating list. C. R. Hopkins, Route G2, Osage, Iowa. 4-5

SINGLE COMB WHITE Leghorn eggs, \$1.50 per 15; bred to lay stock. E. Jacobs, Hessville, Ind. 4-5

BARRON-ENGLISH WHITE Leghorn hatching eggs and chicks, the big kind; up to 288 eggs (official) pedigree stock. Trapped for large winter eggs. Circular. L. W. Ranker, Box A, Tiffin, Ohio. 4-6

VINEWOOD UTILITY STRAIN Single Comb White Leghorns are bred for winter layers. Baby chicks and eggs for hatching. Vinewood Poultry Farm, Highland Park, Ill. 4-6

HATCHING EGGS—Genuine S. C. White Leghorns, Tom Barron strain. 5,875 eggs from 20 hens in 1917. \$7 per 100; \$1.50 per 15. Mrs. Lizzie Gray, Keithsburg, Ill. 4-5

TOM BARRON GUARANTEES that the English Leghorns 1 imported have pedigrees of 268-282. Circular free. Eggs \$2.00 for 15, \$3.50 for 30, \$5.00 for 50. Paul Fredericksen, Holland, Mich. 4-5

SINGLE COMB WHITE LEGHORNS. Eggs from winter layers, \$1.00 per 15; \$5.00 per 100. Ludwig Schirvitz, Commerce, Mo. 4-5

SINGLE COMB WHITE Leghorns. Grand quality eggs from selected matings, \$2 per 15. Special Exhibition Mating, \$3. Valentine Petzold, Bridgman, Mich. 4-6

EGGS FROM BARRON STRAIN, free range, Hogan tested White Leghorns. The kind that has broken many world's records. 15 eggs \$1.25; 30 eggs \$2.10; 4 dozen and up 90c per doz. Prepaid to destination by parcel post. Geo. Wiltsie, Route 1, Escanaba, Mich. 4-6

WYCKOFF SINGLE COMB White Leghorn Eggs from heavy layers, \$1.50 for 15; \$6.00 per 100; chicks, 15c each. C. D. Griffin, Route 1, Crystal Lake, Ill. 4-5

S. C. WHITE LEGHORNS—Young's strain, heavy layers, free range. Eggs, 15, \$1; 30, \$1.75; 50, \$2.75; 100, \$5; 200, \$10. Satisfaction. William Ax, Martinsville, Ill. 3-5

R. C. WHITE LEGHORNS

EGGS, \$1.00 PER 15, \$6.00 per 100, from our bred-to-lay and bred-to-win Rose Comb White Leghorns. George Rigler, Bentonsport, Iowa. 3-5

ROSE COMB WHITE Leghorns. Elephant strain. Good tails, color, layers, winners. 30 eggs, \$3.50; 100, \$6 and \$8. Guarantee, testimonials, circular. Rogers Ranch, Pleasanton, Iowa. 4-5

ROSE COMB WHITE LEGHORNS—Winners, layers; eggs reasonable; hatch guaranteed. Folder free. Harry Aiken, Chaseburg, Wis. 3-5

PURE BRED R. C. W. Leghorn eggs, \$5.50 per hundred. Mrs. Rose Tabler, Weldon, Iowa. 5

ROSE COMB WHITE LEGHORNS—Big winners last Chicago Show. Eggs, \$2 per 13; \$6 per 50; \$10 per hundred. Franklin Morris, 821 Galena, Aurora, Ill. 5

MADISON SQUARE GARDEN winners; all first 1918. Mating list free. Wm. E. Anderson, Box C, Rush City, Minn. 3-5

S. C. BROWN LEGHORNS

S. C. BROWN LEGHORNS—Eggs, 15, \$1; chicks, 15c. Bessie Brinkerhoff, Springfield, Illinois. 5

SINGLE COMB BROWN Leghorns—Eggs, 15, \$1.50. Leah Dimon, Shelton, Conn. 5

\$3.50 PER 100 EGGS—Welday's 256-egg record Single Comb Brown Leghorns; world's leading breeder; catalog. Welday, Seville, Ohio. 5

S. C. BROWN LEGHORNS—Heavy laying, winning strain. Eggs now. Mating list. Stock after June 1st. Albert M. Peterson, Bradford, Ill. 5-6

THREE MONTHS OLD cockerels bred-to-lay Single Comb Light or Dark, \$1 each; \$11 per dozen. Bert Pennington, Cisne, Ill. R. 6. 5

BUY EGGS FROM pure-bred Single Comb Brown Leghorns that lay summer and winter; \$2, 15; \$10, 100. Maplelawn Poultry Yards, Brighton, Tenn. 3-5

SINGLE COMB BROWN LEGHORNS—Knip and Russell's strain; eggs from farm range flock, \$6 per hundred. Mrs. Geo. W. Lohman, Osborn, Mo. 3-5

FIFTEEN EGGS FROM VIGOROUS, healthy, free range, winter laying, light Brown Leghorns; \$2, parcel post prepaid. T. W. Hubbard, Knob Fork, W. Va. 3-5

EGGS FROM MY large 266 record line; large eggs. Catalog. W. W. Kulp, Box 70, Pottstown, Pa. 3-5

S. C. BROWN LEGHORNS—Both lines. Eggs from 10 choice matings. Send for catalog. Geo. L. Hornbrook, Box B, Decatur, Ill. 3-5

SINGLE COMB BROWN Leghorn eggs—15, \$1; 100, \$4. Mrs. John Morse, Avon, Ill. 3-5

WERNER'S QUALITY S. C. Brown Leghorns. Both lines. Utility, eggs, \$2, \$3; Exhibition, \$5 per 15, guaranteed. Wm. B. Werner, Box K, Winamac, Ind. 4-6

S. C. BROWN Leghorns. J. T. Alexander, 1814 Darrow, Evanston, Ill. 4-6

R. C. BROWN LEGHORNS

\$3.50 PER 100 EGGS—Welday's 242-egg Rose Comb Brown Leghorns; greatest winter layers known; catalog. Welday, Seville, Ohio. 5

ROSE COMB BROWN Leghorn eggs—Won prizes at several shows. All eggs tested before shipment. \$1.50 per 15; \$4 per 50; \$7 per 100. Dangers & Co., Sleepy Eye, Minn. 5

HERSEY'S SILVER CUP Strain. Single Comb Brown Leghorns, Rose Comb Brown Leghorns. Line bred for 30 years. Winners of 25 cups, 10 medals in best shows. Eggs \$2 per 15; \$10 per 100. Hersey's Poultry Farms, Parkersburg, Iowa. 4-6

COCKERELS OF 254 record hen, \$7 and \$10; other cockerels, \$3 up. Eggs, \$2 to \$7 per 15. Catalog. Testimonial: "I raised the best layers I ever saw." W. W. Kulp, Box 70, Pottstown, Pa. 3-5

S. C. BUFF LEGHORNS

S. C. BUFF LEGHORNS from Kansas City, St. Louis, Pittsburgh, New York City winners. Eggs, \$1.50 for 15; \$6 per 100. E. Cartwright, Box J, Richmond, Ind. 5

EGG-BRED SINGLE COMB Buff Leghorns. Winners at best shows. Leaders at laying contests. Breeders, eggs, chicks, priced right. Lea Munger, De Kalb, Ill. 5-6

GET NEW REDUCED price bulletin on Shorewood Buff Leghorn eggs, breeders and prepaid chicks. Certified winter layers—records 267-283. Shorewood Farms Co., Box 6, Saugatuck, Mich. 5

S. C. BUFF LEGHORN eggs from best pen in South; few cockerels. W. W. Pitts, Lewisburg, Tenn. 2-5

S. C. BUFF LEGHORNS—Good, healthy, farm range stock; fine layers. Eggs, 15, \$1.50; 100, \$6. Well packed. Edmond Berkshire, Depauw, Ind. 3-5

SINGLE COMB BUFF Leghorns—Cockerels; eggs, \$6 per 100; circular free. Eli Rosenberger, Tiffin, Ohio, R. 9, Box 26. 2-5

BUSINESS BEAUTY BUFF Leghorns from large eggs from mature, typical, robust, prolific hens. Both combs. Out-bred, pedigreed. Catalog. Joseph Benedict, Chevy Chase, Md. 1-18-19

S. C. BUFF LEGHORNS—They win, they lay eggs; prices reasonable. Mrs. H. Hoskins, Fairfield, Iowa. 3-5

S. C. BUFF LEGHORN and Barred Rock Eggs—Baby chicks in season. Prices right. M. M. Omick, Batavia, Ill. 3-5

S. C. BUFF LEGHORNS—Bred to lay and winners; eggs and chicks. Henry Michel, Sublette, Ill. 3-5

EGGS FROM CLEVELAND, Buffalo, Rochester blue ribbon winners, \$3 and \$5. Interpark Poultry Yards, Buffalo, N. Y. 3-5

SINGLE COMB BUFF Leghorns. 100 eggs, \$6; 300, \$15. Stock for sale, free circular. F. J. Rosenberger, Tiffin, Ohio. 4-6

SINGLE COMB BUFF Leghorn eggs from 3 well mated pens. Hatch guaranteed. Write for prices. Jack Stumpe, Pinkneyville, Ill. 4-5

R. C. BUFF LEGHORNS

ROSE COMB BUFF Leghorns—Winners; great layers. Eggs, fowls. Write. Harry G. Crumblin, Mt. Holly Springs, Cumb. Co., Pa. 4-6

BUSINESS BEAUTY—See Single Comb class. 1-18-19

ROSE COMB BUFF LEGHORNS—Stock and eggs. Catalog. Howard J. Fisk, Falconer, N. Y. 3-18-19

BLACK LEGHORNS

BLACK LEGHORNS—Breeding stock. Eggs and chicks from selected prize winning matings. Circular and mating list. Scott Long, Carey, Ohio. 5

SUPERIOR QUALITY BLACK Leghorns—Eggs and chicks very reasonable; circular free. Van Driest Farms, Box R, Cedar Grove, Wis. 2-5

S. C. BLACK LEGHORNS—Winter layers, genuine egg machines. Pen 1, 15 eggs, \$2; 30, \$3.50; 50, \$5. Flock, 15, \$1; 50, \$3; 100, \$5. Ella Whitwood, Hudson, Ill. 2-5

BLACK LEGHORNS—Cockerels, eggs from heavy laying winners; reasonable. Hatch guaranteed. Folder free. Harry Aiken, Chaseburg, Wis. 3-5

FOR SALE—BLACK Leghorn eggs. Good stock; fine winter egg layers. Also some pullets to sell. Joseph Kegel, Freeport, Ill. 3-5

IMPORTED S. C. BLACK Leghorns—220-egg strain; deep bodies, late molters, sure money-makers. Write Holland Bros., Mystic, Iowa. 3-5

S. C. RED LEGHORNS

S. C. RED LEGHORNS—Color and type excellent; no Sussex blood. Eggs, \$3 per 15. H. Christensen, Elma Center, N. Y. 3-5

LEGHORNS—SEVERAL VARIETIES

50,000 LEGHORNS, Single Comb White and Brown. Stock. Eggs. Day-old to four weeks chicks. Catalogue stamp. Failing Poultry Farm, LaFayetteville, N. Y. 4-7

SINGLE AND ROSE COMB White Leghorns. Tom Barron's Strain, Imported Direct. Weighing 5 to 7 lbs. each. Extra large comb. Winners in all the national laying contests. Eggs, \$2 per 15; \$10 per 100. Hersey's Poultry Farms, Parkersburg, Ia. 4-6

BLACK MINORCAS

MINORCAS—SINGLE COMB, Black. Day-old to four weeks chicks. Stock. Eggs. Catalog, stamp. Failing Poultry Farm, LaFayetteville, New York. 5-7

GIANT S. C. BLACK Minorcas—Good stock, heavy laying strain. Pen 1, 15 eggs, \$3; 30, \$5; 50, \$8. Flock, 15, \$1.50; 50, \$4; 100, \$7. After June 15, twenty Minorca hens at \$2 each. Ella Whitwood, Hudson, Ill. 2-5

ROSE COMB BLACK Minorcas—Trapped, average 253 eggs. Prize winners. \$4 per 13. Geo. Konrad, Waukesha, Wis., R. 1. 5

SINGLE COMB BLACK Minorca eggs at bargain prices. Circular. L. C. St. John, Waynesville, O. 5-7

ROSE COMB BLACK Minorcas. Exhibition and utility stock, and eggs for hatching at all times. Send for our large catalog. G. A. Clark, Seymour, Ind. 6-17-19

BLACK MINORCA EGGS for hatching, from large, strong, vigorous stock; heavy layers. Henry Wallis, Delavan, Wis. 3-5

HATCHING EGGS—MY first prize pen, S. C. Black Minorcas; setting, \$1.50; 100, \$8. Stock guaranteed. F. P. Werner, Sleepy Eye, Minn. 3-5

WINNERS AT PANAMA and official 200-egg strain, National egg-laying contest, Missouri, up to 272. H. A. Kultz, Burlington, Wis. 2-18-19

DEYO'S MINORCA FARM—Single Comb Black Minorcas, bred 22 years exclusively; 15 eggs, \$1.50; \$8 per 100. B. C. Deyo, New Paltz, N. Y. 3-5

SINGLE COMB BLACK Minorcas exclusively. Eggs for hatching from winners at Grand Palace, Pittsburgh and Chicago. Write for mating list. A. T. Renner, Coshocton, Ohio. 3-5

R. C. BLACK MINORCA eggs. Catalog free. Consistent show winners. Great laying strain. Jay Beswick, Berea, Ohio. 3-5

S. C. BLACK Minorca eggs for hatching; excellent stock. Eggs, \$1.25 per 15; \$3.50 per 50; \$6.50 per 100. Address M. Pelton, Alexander, N. Y. 4-5

S. C. BLACK Minorcas. Eggs and stock for sale. Eggs, \$2, \$3 and \$5 per setting; \$12 per 100. Send for mating list. Onondaga Minorca Yards, J. G. Kren, Prop., Syracuse, N. Y. 4-6

HUTSON'S SINGLE COMB BLACK Minorcas. Eggs, \$2 and \$5 per 15. Albert Hutson, Oneonta, N. Y. 4-5

ROSE COMB BLACK Minorcas. Eggs for hatching from my choice matings. Good layers of large white eggs, and Exhibition qualities. War time prices. Phillip J. Minch, Route 4, Painesville, Ohio. 4-6

SINGLE COMB BLACK Minorca eggs for hatching, \$2.00 setting. W. W. Gardner, Scottsville, Ky. 4-6

BUFF MINORCAS

BUFF MINORCAS—See display ad page 567. Walthalla Poultry Farm. 3-18-tf

EGGS FOR HATCHING—Buff Minorcas, \$10 and \$5 per 15. Utility, \$2 and \$3.50 per 15. Mrs. S. M. Applewhite, 1502 S. Presa, San Antonio, Tex. 3-5

SINGLE COMB BUFF Minorcas. Good winter layers of extra large white eggs. 15 eggs for \$2.00. Fred P. Dietz, Mt. Vernon, Ind. 3-5

WHITE MINORCAS

ROSE COMB WHITE MINORCAS — Get prices of my 1917 Chicago winners. I have some choice matings and can furnish large white eggs that will hatch. W. E. Haase, Omro, Wis. 5-7

WHITE ROSE COMB Minorca eggs for May reduced to \$2.50 per fifteen. Carolina Poultry Farm, Mountville, S. C. 5

SINGLE COMB WHITE Minorca eggs—Special quality mating, including prize winners, \$3 per 15. Farm flock, \$1.50 per 15, \$7 per 100. Fred C. Hacke, Lone Tree, Iowa. 3-5

SINGLE COMB WHITE Minorcas for utility and beauty; splendid layers, large white eggs. Eggs, \$1.75 per 15, \$4.50 per 50. E. H. Wisen, Homer, Neb. 3-5

SINGLE COMB WHITE Minorcas exclusively. My stock has free range of farm. Eggs for hatching, \$2.50 per 15; \$4 per 30; \$10 per 100. A. L. Buzzard, Metamora, Ill. 3-5

SINGLE COMB WHITE Minorcas — 18 years a breeder. Eggs for hatching; also cockerels. State what you want. Harry Leibold, Delaware, Ohio. 3-5

WELLS' STRAIN SINGLE Comb White Minorcas—Eggs from our Madison Square, Coliseum and State Show winners, ready to ship. Fertility guaranteed. Wells & Wells, Box 1250, Muskogee, Okla. 3-5

MEISELBACH'S SINGLE AND ROSE COMB White Minorcas; won at the great Coliseum show, 1917, 5 first, one third prize. Choice stock and eggs. Harry Meiseibach, Melrose Park, Ill. 4-5

BLACK ORPINGTONS.

BLACK ORPINGTONS—The big winter layers; 15 eggs, \$1.50. Juanita Whitwood, Hudson, Ill. 3-5

BUFF ORPINGTONS

SINGLE COMB BUFF Orpingtons—Owen strain. Large, well shaped, good laying strain. Eggs, 15, \$1; 30, \$2; 50, \$3. Charlie McGrath, Scioto Mills, Ill. 4-7

QUALITY SINGLE COMB Buff Orpingtons, the kind that please; grown stock; guaranteed eggs, \$2, \$3, \$5 per fifteen. William Schneider, Rutland Road, Freeport, Long Island. 3-5

S. C. BUFF ORPINGTONS—Consistent winners at Quincy, Ill., and Illinois State Shows, 1914-1918. Eggs from three grand pens, \$3, \$5 and \$7.50 per 15. Satisfaction guaranteed. Mating list free. A. F. Burger, Keokuk, Iowa. 3-5

SINGLE COMB BUFF Orpingtons bred from imported stock. Eggs, \$2 to \$5 per setting. Get my 1918 mating list. L. B. Crew, Creighton, Neb. 3-5

BUFF ORPINGTONS—The hens that lay and pay, bred from prize winning stock. Large eggs; heavy winter layers; excellent table birds. Sittings, first pen, \$2.50; second pen, \$1.50 per 15. Hundred lots special price. Order early. Henry Robinson, Wyandot, Ill. 3-5

S. C. BUFF ORPINGTONS Eggs: 15, \$1.50; 50, \$3.50; 100, \$6.00. Hens, \$2.50. Frank Myers, Oakwood, Ohio. 4-5

SINGLE COMB BUFF ORPINGTON Cock-erels. Martz strain, \$5. Eggs, \$2.50 per setting. John W. Fagan, Frederick, Ill. 4-6

S. C. BUFF ORPINGTON eggs from hens that lay, weigh and pay. I paid \$20 for 13 eggs. My price from No. 1 pen, 15 eggs, \$5. No. 2 pen, 15 eggs, \$2. No. 3 pen, 15 eggs, \$1. All orders filled promptly after March 15th. Mrs. Lizzie Roebuck, Ft. Wayne, Ind., R. F. D. 14 3-5

BUFF ORPINGTONS — Hatching eggs from winners of best display at Utica, Jan., 1918. Send for mating list. Lynn A. Wollaber, Mohawk, N. Y. 4-5

WHITE ORPINGTONS

WHITE ORPINGTON EGGS from my all star matings. William Radschlag, Sioux City, Iowa. 5

ALDRICH-OWEN FARMS White Orpingtons. Prize winners. For Sale—Hens, Pullets, Eggs. Choice matings. \$2, 15; \$7.50, 100. Closely culled range flock, \$5, 100. Sunnyside Flock, Sandwich, Ill. 5-6

WHITE ORPINGTONS—Eggs half price. Stock direct from Aldrich and Morris Farms, best pens, 90 percent fertility. Strong chicks. Eggs, \$3, 15; \$9, 50. Utility, \$2, 15; \$8, 100. W. R. Williams, Box L 646, Lake Crystal, Minn. 5

SINGLE COMB WHITE Orpingtons, White Leghorns and Rhode Island Reds; stock and eggs of quality. A. G. Davison, Box APJ, Grand River, Iowa. 2-5

WHITE ORPINGTONS — WINNERS at Tri-Cities and Iowa State shows; choice pullets and other stock for sale; hatching eggs after Feb. 15; satisfaction guaranteed. L. H. DeFrates, Fancier and Breeder, Route 1, Davenport, Iowa. 2-5

SINGLE COMB WHITE Orpington eggs, \$1, 13; \$7, 100. Chicks, \$20, 100. Frank Weinschenk, Highland Stock Farm, Bellevue, Iowa, R. 4. 5

ALDRICH'S STRAIN WHITE Orpington eggs, \$1.50, 15; \$7, 100. Circular. Miss Deillah M. Moon, Route 2, Martinsville, Ohio. 3-5

SINGLE COMB WHITE ORPINGTONS—Great, large, low down, massive type, extremely white, grand winter layers, grow like weeds. Eggs, 15, \$1.50; 50, \$4.00; 100, \$7.00. Lee W. Morgan, Independence, Ind. 3-5

QUALITY WHITE ORPINGTONS—High egg record strain. Eggs, \$3. Geo. Layman, Greenville, Ill. 3-5

QUALITY WHITE ORPINGTONS—Bred to lay with quality to win at Northwest largest shows. Guaranteed eggs, \$2 to \$5 per fifteen. Write for mating list and winnings. W. R. Williams, Box L-646, Lake Crystal, Minn. 3-5

HATCHING EGGS FROM Aldrich Strain White Orpingtons, which won all first, special cockerel and silver medal at Official State Show, 1917, \$3 and \$5 per 15. Mrs. Raymond Rouelle, Wallingford, Conn. 4-6

PRIZE WINNING SINGLE COMB White Orpingtons; great layers; eggs, \$1.50 to \$5; chicks, 25 for \$5; cockerels for sale. W. A. Burris, Bluffton, Ind. 4-6

WHITE ORPINGTONS—As good as the best, better than most. Illustrated catalog free. Sunnyfields Farm, Wallingford, Conn. 4-6

SINGLE COMB WHITE Orpington Eggs from vigorous, healthy stock. Splendid type and color. \$2, 15; \$7, 100. Mrs. E. C. Webster, Charles City, Iowa. 4-6

KELLERSTRASS STRAIN SINGLE COMB White Orpingtons. Large boned, well shaped birds. \$3 per 15 eggs. Charlie McGrath, Scioto Mills, Ill. 4-6

WHITE ORPINGTONS—Aldrich strain; 15 eggs, \$3; 30 eggs, \$4. G. W. Wieneke, Route 3, Fieldon, Ill. 3-5

S. C. WHITE ORPINGTON Baby Chicks, \$20 per 100. Eggs, \$10 per 100. Good healthy stock. Mrs. Mary Sawtell, Colo. Iowa. 4-5

ORPINGTONS—SEVERAL VARIETIES

BLUE AND BUFF Orpingtons—Stock and eggs for sale. Prices reasonable. Jess Jessen, Strawberry Point, Iowa. 3-5

ORPINGTONS—S. C. BUFF and White; first white hen, Wisconsin State Fair, 1917. Owen Farms Buff eggs, 15, \$2; 30, \$3.50. Bert Shaw, Elizabeth, Ill. 4-5

MAMMOTH STRAIN WHITE, Black and Buff Orpingtons. Eggs, \$2 per 15; \$10 per 100, from exhibition stock. Hersey's Poultry Farms, Parkersburg, Iowa. 4-6

POLISH.

WHITE CRESTED BLACK Polish and White Crested Plain White Polish. Write for circular. Rev. Charles Pfeiffer, Melrose, Minn., Route 3. 3-5

WHITE CRESTED BLACK, Silver and Buff Polish. Prize winners for 20 years. Stock and eggs reasonable. Kakuska, Berwyn, Ill. 4-6

TWO AND THREE DOLLARS, fifteen; seven varieties Polish eggs, postpaid. L. Leavitt, Smithfield, Ill. 4-6

RED CAPS.

ENGLISH RED CAPS exclusively — Sixteenth year. Fifteen eggs for hatching, \$3.00; thirty eggs, \$5.00. Larger orders at lower rates. Stock for sale. Satisfaction guaranteed. H. G. Weidenfeller, Mineral Point, Wis. 3-5

RHODE ISLAND REDS

ROSE COMB REDS—Eggs half price, pre-paid parcel post, one-fifty per setting. Mrs. Russell, Whittemore, Ia. 5

ROSE COMB RHODE ISLAND Reds — Poorman's 200-egg laying strain, farm raised, vigorous stock. Eggs, \$2 per 15; \$8 per 100. Chicks, \$20 per 100. Mrs. J. A. Brown, Route 6, Creston, Iowa. 5

HATCHING EGGS — S. C. Reds — White Leghorns, large thorough heavy winter layers, 15, \$2.50; 30, \$4.50. Grant M. Frick, Aurora, Ill. 5-6

PERRY'S SINGLE COMB REDS — Eggs after May 1st, pen run, 10 cents each; incubator eggs, \$6 per 100. Freed Perry, Ottawa, Ill., R. 31. 5-7

SINGLE COMB REDS—Won championship cup, Chicago, 1916. Special. 15 eggs, \$2.50. George Demlow, Elgin, Ill. 5-6

\$4 PER 100 EGGS—Welday's 220-egg record, real red S. C. Reds; none better; catalogue. Welday, Seville, Ohio. 5

ROSE COMB REDS — Eggs from trapped heavy laying females. Special mated pens, mated to produce show quality as well as utility. Headed by males from high yield dams. Mating list free. Eggs half price after May 15th. F. W. James, Waukegan, Ill. 4-5

S. C. REDS—To introduce the superior quality of my prize winners, will sell you 15 eggs, \$2; were \$5. Mating list or from this ad. Bean blood. Postage prepaid on 30. Scarborough, Hillsboro, Ohio. 5

HIGH-CLASS SINGLE COMB Red eggs. Chas. Sherman, Freeport, Ill. 2-5

S. C. REDS—Good stock and the best of winter layers. 15 eggs, \$2; 30, \$3.50; 50, \$5; 100, \$8. Ella Whitwood, Hudson, Ill. 2-5

R. I. RED EGGS, \$3 to \$5 per sitting. special prices on hundred lots. John G. Richardson, Elliott, Ill. 3-5

S. C. REDS—Wymore and Hickman winners. Stanley Kaura, Wymore, Neb. 3-5

LONG'S SINGLE COMB REDS—Winners at Sioux City, Des Moines, Omaha; foundation stock direct from Scranton; ten pens mated; egg prices reasonable. Write for mating list. B. S. Long, Little Sioux, Iowa. 3-5

EGGS FROM PRIZE WINNING Rose Comb Reds; 3 grand matings; true Reds; \$2, \$3 and \$5 per sitting. Geo. J. Seifert, Mt. Vernon, Ind., Route 7. 3-5

S. C. REDS of quality. Large-boned range raised winners and layers. Eggs, \$2 per 15. Robert Bolton, Virden, Ill. 3-5

SINGLE COMB REDS—Pure-bred, dark red; setting of 15, \$1.50. Indian Runner duck eggs; setting, \$1.50. Mrs. Edgar Beach, Stillman Valley, Ill. 3-5

SINGLE COMB REDS—Bean strain; large bone, dark red. Eggs, \$2 for 15. Henry R. Snapp, Greenville, Tenn. 3-5

SINGLE COMB R. I. REDS—Farm reared, with that rich red color, from best blood lines. Eggs, \$3 per 15. Order from this ad. Curt Dorendorp, 2047 Dayton St., Chicago, Ill. 3-5

SINGLE COMB REDS — Eggs from my best mating, 15, \$2; 30, \$3.50; 50, \$5; 100, \$9. Fred G. Keller, Miltersport, Ohio. 3-5

TOMPKINS' MAMMOTH S. C. Reds—Healthy, rich, brilliant red; excellent layers. Eggs that hatch, 100, \$8; 50, \$4.50; 30, \$3; 15, \$2. Strong, vigorous chicks, 100, \$16; less than 50, 18 cents each. Albert Bonsall, R. 4, Salem, Ohio. 3-5

240-EGG STRAIN Rhode Island Reds — Both combs, 21 years a breeder. Stock and eggs for sale. Stamp for reply. E. S. Piper, Bay View Farm, North Haven, Maine. 3-5

S. C. REDS—Won every first at three shows. Mating list free. S. R. Engstrand, Steger, Ill. 3-5

ROSE COMB REDS—Eggs at \$1.25, \$1.50 and \$2.50 for 15. Satisfaction guaranteed. Thomas N. Hadden, Primghar, Iowa. 4-5

ROSE COMB REDS—Fine quality stock. Excellent winter layers. Eggs, \$1.50, \$3 and \$3.50 per 15. \$7 per 100. Jean Weerts, Foolsand, Ill. 4-5

ROSE COMB REDS—Eggs from three grand pens. Write for Mating List. J. M. Holt, Marshalltown, Iowa. 4-6

ROSE COMB REDS—Kaufmann and Windheim American Beauty strain; large brown eggs from healthy, vigorous hens having farm range. \$2 per 15; \$10 per 100. Edward Glendening, Delhi, N. Y. 4-5

"MAHOGANY" STRAIN SINGLE Comb Reds—Carefully bred to produce handsome strong birds. None better in the country. Eggs, \$2, \$2.50 and \$3 per 15. W. E. Howard, Ottawa, Ill. 3-5

ROSE COMB RED EGGS from carefully mated pens, bred for laying for 15 years. Winners wherever shown. Busy Bee Henry, Bridgman, Mich. 4-6

ROSE AND S. C. REDS—Size and color that will please the eye. Proven winners and breeders in any competition. Eggs, \$2 per 15; \$10 per 100. Hersey's Poultry Farms, Parkersburg, Iowa. 4-6

INCREASE YOUR EGG PRODUCTION. Buy eggs and day-old chickens from stock backed with a known "Trap-nested" Record. No guess work about the laying qualities of our Trap-nested Single Comb Reds. Prices reasonable. Free Mating List. Deer Brook Poultry Farm, Short Falls, N. H. 4-5

RHODE ISLAND WHITES

ROSE COMB RHODE ISLAND Whites—Prize winners, bred to lay. 15 eggs, \$2; 50, \$5; 100, \$8. G. H. Warren, Holley, New York. 5

RHODE ISLAND WHITES—Heavy laying strain. Eggs, fifteen for one-fifty. Fred M. Haas, Machias, N. Y. 5-7

"WHITE QUEEN" RHODE ISLAND Whites, Rose and Single Combs. 15 eggs, \$1.25; 50, \$3; 100, \$5.50. Rose Comb hens, \$1.50. Fred Havig, Route 2AA, Osage, Iowa. 5

GET NEW REDUCED price bulletin on Shorewood Rhode Island White eggs, breeders and prepaid chicks. Certified winter layers—records 242-261. Shorewood Farms Co., Box 6, Saugatuck, Mich. 5

HEADQUARTERS FOR ROSE Comb Rhode Island Whites. I am the oldest breeder of this breed. Eggs and stock for sale from this wonderful laying strain. Catalog free. C. A. Foster, Colonial Poultry Yards, Akron, Ohio. 1-6

THE GREAT RHODE ISLAND White farm, Rose and Single Comb eggs, \$1.50 per 15 and up. Also chicks. Catalog free. Henry Eichelmann, R. 4, Waterloo, Ill. 3-5

ROSE COMB RHODE ISLAND White cockerels, hens and pullets, \$2. \$3, \$5 each, from prize winning strains. Eggs, 15, \$2; 50, \$5; 100, \$9. Col. Warren Russell, Winfield, Kan. 3-6

VERTRESS ROSE COMB Rhode Island Whites—Eggs, \$2, 15; \$5, 50; \$8, 100. Oak Grove Farm, Route 34, Box A, Peoria, Ill. 3-5

PATRICK'S ROSE COMB Rhode Island Whites won another great victory at the recent Club Show at St. Louis, Mo. Write for circular. J. T. Patrick, R. 4, N. Vernon, Ind. 4-5

BARRED PLYMOUTH ROCKS

BARRED ROCKS—DAY-OLD to four weeks chicks. Stock. Eggs. Catalog, stamp. Failing Poultry Farm, La Fargeville, New York. 5-7

\$4 PER 100 EGGS—Welday's Laymore Barred Rocks; catalog. Welday, Seville, Ohio. 5

BARRED ROCKS—Holterman's direct. Two pens, one dark and one light, 1917 blue winners. Try me. Eggs, \$3 per 15. Al Piper, Oak Lawn, Ill. 5

FOR SALE—BARRED ROCKS. Entire flock, \$1.50 each. Hazel Eaton, Ottawa, Ill. 5

GRIM'S BARRED ROCKS—Myers' Lady Beautiful strain direct, and Ringlets. Prize stock, heavy layers. Eggs, \$2.25 and \$3 fifteen. Frank C. Grim, Staunton, Va. 5-6

FOR SALE—ONE PEN cockerel-bred Barred Plymouth Rocks, eight females, one male, pure Thompson. Good. F. W. James, Waukegan, Ill. 5

BARRED PLYMOUTH ROCKS—St. Louis and Kansas City winners. Large sized. Beautifully barred. 279-egg record. Eggs, \$2 per 15; \$8 per 100. Chicks, 20 cents each, prepaid. Geo. Dees, Waltononville, Ill. 5

EGGS FROM E. B. THOMPSON'S Imperial Barred Rock strain, 15 for \$2; 100 for \$10; satisfaction guaranteed; good cockerels reasonable. W. H. Settle, Gridley, Ill. 2-5

RINGLET ROCK EGGS, \$1.25 to \$5 per 15; 100, \$6; both matings and flock farm raised. V. I. Hostetler, Route 5, Napanee, Ind. 3-5

BARRED ROCK EGGS for hatching, \$1.50 per 15, \$10 per hundred. Mrs. Henry Glafka, Walnut, Ill. 3-5

BARRED ROCKS—LARGE, vigorous, clearly barred, yellow legs and beak, from Parks' heavy laying strain; eggs, 15, \$1.50; 50, \$4; 100, \$7. B. F. Morgan, Independence, Ind. 3-5

BAYER'S PREMIER BARRED ROCKS—Eggs, \$5 per 15, \$25 per 100. The winning male line only. Chas. Bayer, Urbana, Ohio. 3-5

BARRED ROCK EGGS for hatching from birds that took every first prize in exhibition class, silver cup, best display, and specials at Lafayette, Ind., January, 1918. Martin Lind, Crawfordsville, Ind. 3-5

E. B. THOMPSON'S STRAIN Barred Rock eggs, \$1.50, 15; \$7, 100. Circular. Miss Delilah M. Moon, Rt. 2, Martinsville, O. 3-5

BARRED ROCKS—Special mating; eggs, \$3 per 15; exhibition, \$5 per 15; utility, \$1.50 per 15, \$8 per 100. Perl Baughn, "Lone Oak" Farm, Washington C. H., Ohio. 3-5

BARRED ROCK EGGS that will produce winners. Write T. A. Somdal, 1430 Carolina Ave., Springfield, Ill. 3-5

EGGS—270-EGG LINE—None better. Catalog. W. W. Kulp, Box 70, Pottstown, Pa. 3-5

EGGS FROM HEAVY laying utility stock, \$5 per 100; prompt shipments. Tyrone Poultry Farm, Penton, Mich. 3-5

EGGS FREE—Hall's famous Barred Plymouth Rocks. In order to induce more poultry, I am going to reduce the price of eggs from my famous winning line of cockerel-bred Barred Rocks, including World's Fair and Champion Chicago winners, to \$5 per 15 eggs. With every order of \$5 I will give free five eggs from the daughters of "Liberty," egg record 294 eggs in one year. Several of those yards are headed by 12-lb. cocks, sons of champion female, Chicago Coliseum. I have formerly sold at \$10 to \$20 per 15. Everything goes this spring after March 1st, \$5 per 15, with five free eggs, giving you 20 eggs in all. 19 years line-breeding on my farm for size, eggs, production and exhibition quality has produced a line unexcelled by any breeder in America. We are prepared to take care of thousands of orders promptly. You may order any amount you wish; price is the same; with every \$5 sent for eggs I will send free five eggs. Catalog free. Luther J. Hall, Box 7, Kenney, Ill. 3-5

RINGLET BARRED ROCKS—Eggs, 15, \$1.25; 30, \$2.50; 50, \$3; 100, \$5. E. P. Churchill, Allerton, Iowa. 3-5

BARRED ROCKS—E. B. Thompson's "Ringlets" direct; eggs from my best matings, 15, \$2; 30, \$3.50; 50, \$5; 100, \$9. Fred G. Keller, Millersport, Ohio. 3-5

BARRED ROCKS—Vigorous, heavy laying breeders on range. Eggs, 15, \$1.50. Mont Lockart, Vandalia, Ill. 3-5

BARRED ROCK HATCHING eggs from farm range flock; \$1.25, 15; \$6, 100; thousand rates. Also baby chicks. W. H. Hassebrook, St. Peter, Ill. 3-5

BARRED ROCKS—BRADLEY strain; free range, \$5 per 100, not prepaid; 15 eggs, \$1.25, prepaid. Mrs. Ella Hiel, Avon, Ill. 3-5

BARRED ROCKS—RINGLET strain, 1918 record at Milwaukee Auditorium show, 1st and 4th cockerel; Oconomowoc, 1st and 2d, only two birds entered. Exhibition and breeding cockerels for sale. Eggs, \$3 per 15 or \$5 per 30. All stock guaranteed; if not satisfactory, return at our expense. Ed Martin, Oconomowoc, Wis. 3-5

RINGLET BARRED ROCK eggs from special exhibition matings; birds of great size and quality. Pens 1 and 2, 15, \$5; 3 and 4, 15, \$3; 30, \$5. Mating list. Mrs. J. M. Kemp, Kenney, Ill. 3-5

BARRED ROCK EGGS from stock with size, shape and color. Good laying strain; 15, \$1.50; 50, \$4.00. E. B. Murphy, Box 4, Carmel, Ind. 3-5

PROLIFIC BARRED ROCKS—Large brown eggs from valuable matings; \$1.50 per 15; \$6 per 100. C. A. Newcomb, Celina, Ohio. 3-5

EGGS—\$6 PER 100. \$1.25 per setting. Mammoth Barred Rock chickens, have had them weigh to 16 lbs. Howard Irvin, Polo, Ill. 4-7

IMPERIAL RINGLET Barred Rocks—Large heavy boned stock. Eggs, 15, \$2; 30, \$4. Charlie McGrath, Scioto Mills, Ill. 4-6

LARGE, BEAUTIFUL, VIGOROUS Bred-To-Lay Barred Rocks, Park's strain exclusively (from best pens direct). Heavy winter layers. Eggs: 15, \$2; 30, \$3.50; 50, \$5; 100, \$9. W. G. Meradith, Danvers, Ill. 4-6

BARRED PLYMOUTH ROCKS—E. B. Thompson Ringlet strain, direct. 15 eggs, \$3; 30 eggs, \$5; prepaid. Chas. Woodfill, Madison, Ind. 4-6

RINGLET BARRED ROCKS—Eggs for hatching, \$2 per 15; \$3.50 per 30. Wm. P. Klemm, Lombard, Ill. 4-5

EGGS FOR HATCHING from pure-bred Barred Plymouth Rocks (Park's strain) and bred to lay; \$2 per 15. Edwin F. May, Bainbridge, Ohio. 4-5

E. B. THOMPSON'S RINGLET Strain Direct, Pullet Matings. Eggs, 15, \$1.75; 50, \$4.50; 100, \$8. Amos A. Hieser, Fisher, Ill. 4-5

BRED-TO-LAY BARRED ROCKS—Park's strain direct. 15 eggs, \$1; 100, \$6. J. C. Scrivner, Dahlgren, Ill. 4-6

PARK'S BARRED ROCKS—Prize winning 210-egg bred. If you want delicious, meaty, quick maturing fryers, persistent layers and handsome breeders and be satisfied as an army of old customers are, order my hatchable eggs and livable chicks. Write Elizabeth Woodmansee, Highland, Ohio, today for folder and buy superior stock. 4

HATCHING EGGS—Quality product at utility prices. Send for circular. Chilson's Poultry Yards, Northampton, Mass. 4-5

BUFF PLYMOUTH ROCKS

BUFF ROCK EGGS—Farm range, large; great laying strain; \$1 per 15; \$3 per 50; \$5 per 100. Mrs. W. Vickerman Riggs, Franklin, Ind. 3-5

BUFF ROCKS OF QUALITY—Stock and eggs. Moore & Son, Holland, Mich. 3

BUFF ROCKS—LAYERS, winners. Eggs from pens headed by first cock and first cockerel, champion male, at Greater Chicago show, Jan., 1918. Reasonable. Circular free. W. E. Russell, Wantoma, Wis. 3-5

BUFF ROCKS—BEST pens of selected layers; fifteen eggs for \$1. H. G. Liddle, Wever, Iowa. 2-7

BUFF ROCKS—WINNERS at Wisconsin Poultry Show, first, second, third pullet, third cockerel. Eggs, \$2.50 per 15. H. Vitense, 623 Oakridge, Madison, Wis. 3-5

BUFF AND COLUMBIAN Plymouth Rocks—Good color, type, etc.; good layers. Eggs, \$3 per 15. James W. Elliott, Decatur, Ill. 3-5

DUCLOS BUFF ROCKS win again at Boston, 1918: Cock 4th, hens 1st and 5th, cockerel 6th, pullets 3rd and 6th—three selected pens; eggs, \$4 per 15. B. N. Duclos, Lenox, Mass. 4-5

COLUMBIAN PLYMOUTH ROCKS

COLUMBIAN ROCKS—200-egg strain and New York Garden winners. Write for prices—eggs and stock. T. J. Enslin, Hackettstown, N. J. 4-5

PARTRIDGE PLYMOUTH ROCKS

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 580. 5-15-tf

PARTRIDGE PLYMOUTH ROCK eggs—Heavy laying strain. \$1.50 per 15; \$6 per 100. Henry G. Fischer, Sweet Springs, Mo. 5

EGGS FROM HIGH-CLASS Partridge Rocks. Paul Wurtzel, Freeport, Ill. 2-5

PARTRIDGE ROCKS—Priced reasonable. State Fair winners five years. Frank Neudecker, Sleepy Eye, Minn. 3-5

OWN-LAND FARM'S American Beauty Partridge Rocks—Boston winners, 1918. South Hammond, New York. 4-6

ILLINOIS STATE SHOW Winners—Eggs, \$2.50 per 15, prepaid. Special price this month, pullets, 2 for \$5. Catalog free. John Hacker, Dept. A, Marissa, Ill. 4-6

WHITE PLYMOUTH ROCKS

LANDIS WHITE ROCKS, winners at Indianapolis, Chicago, for past twenty years; extra fine show and breeding birds at fair prices; mention what you want from this ad; none better; must please; four select pens; eggs, \$5 per 15. John Landis, Edinburg, Ind. 2-7

WHITE ROCKS—U. R. FISHEL strain direct. Eggs of heavy layers. \$1, 15; \$3, 50; \$6, 100; \$11, 200. Order filled promptly. Henry Heitkamp, New Bremen, Ohio. 5

CHADWELL'S FAMOUS WHITE Rocks win, lay and pay. Special values in eggs, \$1.50, \$3 and \$5 per 15. A. J. Chadwell, Jacksboro, Tenn. 5

WHITE ROCKS—EGGS for hatching that will hatch. One price only. Free circular. Guaranteed service. Hoch & Frederick, Box O, Chambersburg, Pa. 3-6

NUZUM'S WHITE PLYMOUTH Rocks are good winter layers. Fifteen eggs for hatching for two dollars. M. M. Nuzum, Anderson, Ind. 3-5

WHITE ROCKS—FISHEL strain. Eggs, \$1.25 per 15. Elmer Schumaker, Tama, Mo., Ill. 3-5

EGGS, \$1.00 PER 15; \$6.00 per 100, from our bred-to-lay and bred-to-win White Rocks. George Rigler, Bentonsport, Ia. 3-5

FIVE TO TEN DOLLAR Value—White Rock Eggs, (as others charge) \$3 per 15. Size, laying and exhibition qualities considered. George Lawrence, Manchester, Vt. 4-5

WHITE ROCKS—Farm raised. None others kept, thus insuring them absolutely pure. Large yards keeping them clean and healthy. Eggs, \$2 and \$3 per 15. A. W. Harvey, Stonington, Conn. 4-6

HALBACH WHITE ROCKS—Fine stock, \$3. Johnson, 4322 N. Albany Ave., Chicago, Ill. 4-5

WHITE ROCKS—POORMAN'S Class A cockerel mated to choice Fishel stock. Eggs, 15 cents each, \$10 per 100; pullets, \$2 each. W. H. Barnfield, Charleston, Ill. 4-5

WHITE ROCKS—Halbach's strain. Eggs, \$1.50 for 15; \$5 for 50; \$7 per 100. Satisfaction guaranteed. C. D. Griffin, Crystal Lake, Ill., Route 1. 4-5

PLYMOUTH ROCKS—SEVERAL VAR.

EGGS FROM LARGE high-scoring Barred, Buff and White Plymouth Rocks. Eggs, \$1 per 15; \$2.50 per 50. A Matthews, Mt. Union, Iowa. 4-6

SPANISH

WHITE FACED BLACK Spanish—Stock and eggs. Winners Indiana shows—Newcastle, 1913; Marion, 1914; Goshen, 1915; Logansport, Marion, 1916; Indiana State Fair, 1916, 1917; Greater Chicago Show, 1918. J. R. Galloway, Elwood, Ind. 2-5

EGGS—COLISEUM WINNERS, \$3 per 15, delivered; other pens, 10c per egg. Tyrone Poultry Farm, Fenton, Mich. 3-5

WHITE FACED BLACK Spanish—Great layers. Eggs for hatching. Also Buff Orpingtons. Write F. T. Walker, Blanchester, Ohio. 3-5

RED SUSSEX

HATCHING EGGS from extra nice Red Sussex chickens; great layers. E. H. Hayward, Fairbank, Iowa. 3-5

SPECKLED SUSSEX

SPECKLED SUSSEX—Winners at Greater Chicago Show, 1918. Choice birds from winning strain. Hatching eggs from good matings. Prices reasonable. Write me your wants before buying elsewhere. C. A. Campbell, 1913 W. 59th Street, Chicago, Ill. 5

SPECKLED SUSSEX—Quick growers; fine for broilers and roasters; 15 eggs for \$2. Rockhorn Farm, Wheaton, Ill. 3-5

FIELD'S SUSSEX—CHICAGO winners. Stock, eggs. Field Bros., Sandwich, Ill. 3-5

MADISON SQUARE GARDEN, 1917-1918, 1st cockerel, 3d cock; Palace, 1916, 2d cockerel, 2d hen. Three pens mated to produce more winners. Eggs, \$3 per 15. Joseph Preece, Fort Washington, Pa. 4-6

BLACK WYANDOTTES.

BLACK WYANDOTTE EGGS, \$2 per sitting. R. E. Hickman, Girdletree, Md. 3-5

BUFF WYANDOTTES

EGG-BRED BUFF WYANDOTTES—Winners last National Club show. Breeders, eggs, chicks, priced right. Lea Munger, De Kalb, Ill. 5-6

LANGE'S BUFF WYANDOTTES—Winners, layers, payers. Two shows, 16 entries, 11 ribbons. Breeders or sale. Eggs, \$3 per 15, \$30 for \$5. J. Y. Lange, 1191 Scotten Ave., Detroit, Mich. 3-5

BUFF WYANDOTTES OF quality—Eggs from silver cup winners. Send for free mating list. William E. Woolley, Sidney, Ohio, Route 5. 3-5

BUFF WYANDOTTES—Sanborn strain, wonderful layers; winners. Eggs, \$1.50 per 15; 100, \$8. Ben Threlkeld, Ewing, Ill. 3-5

BUFF WYANDOTTES of high egg record ancestry; \$3 per 15. Ralph M. Smale, Pottstown, Pa., Route 2. 3-5

COLUMBIAN WYANDOTTES

MICHIGAN'S CHAMPION Columbian Wyandottes, greatest of all layers, established their reputation by the show room records they attained from coast to coast. Eggs from six grand exhibition matings at reduced prices; satisfaction guaranteed. Superb breeders reasonable. Arthur Schaack, 605 Rohns Ave., Detroit, Mich. 5

FOR SALE—SECOND PRIZE Chicago cock, \$15, and 25 hens and pullets, \$3 each. H. M. Jordan, Hicksville, Ohio. 5

BRED-TO-LAY COLUMBIAN Wyandottes, 15 eggs, \$1.50; 100, \$8. L. S. Spafford, Martville, N. Y. 3-5

COLUMBIAN WYANDOTTES—Hatching eggs and baby chicks, from range raised, bred-to-lay stock of exhibition quality; prices reasonable, quality considered. Chris. Hendricks, Glasco, N. Y. 2-5

COLUMBIAN WYANDOTTE cockerels—Exhibition and utility; bargains if taken at once. Write Frank Male, Gardner, Ill. 3-5

COLUMBIAN WYANDOTTE EGGS that produce chicks that pay if feed is high. S. M. Watkins, Walnut, Ill. 3-5

SUPERIOR STRAIN WINS again at Boston, 3 pullet, 4 cock, 3 pen. Choice breeders, reasonable. Hatching eggs from as good as the best. Gilbert Poultry Farm, Whitier Road, Haverhill, Mass. 3-5

GOLDEN WYANDOTTES

GOLDEN WYANDOTTE cockerels, \$3, \$5. Cocks, \$5. Eggs, \$1.50, 15; \$7 for 100. Anna Chase, Centreville, Pa. 5-7

GOLDEN WYANDOTTES—First and second prize winners at St. Louis Coliseum. Hatching eggs, first pen, \$3 per 15, \$5.50 per 30. Second pen, \$2.50 per 15, \$4 per 30. Circular free. Sunflower Poultry Farm, Guss C. Goeddel, Waterloo, Ill. 4-5

GOLDEN WYANDOTTE EGGS—\$2 per setting from prize winners. 1st cock at Chicago. W. F. Burkitt, Benton, Ill. 5

PARTRIDGE WYANDOTTES

PREMIER PARTRIDGE WYANDOTTES—Won 1st cock, 1st hen, 1st-2d cockerel, 1st-2d pullet, 1st pen, champion sweepstakes cock, at great St. Louis Coliseum show. Eggs, \$2.50 per 15 up. Chicks, 30c each. Folder free. A. Louis Keim, Box 93, Waterloo, Ill. 3-5

PREMIER PARTRIDGE Wyandotte eggs from excellent matings. Lloyd Caldwell, Neoga, Ill. 5-6

SILVER LACED WYANDOTTES

SILVER LACED WYANDOTTE Eggs—\$2, \$3 and \$5 per 15. Splendid breeding pullets for sale. Circular free. Satisfaction guaranteed. B. A. Romich, Creston, O. 5-6

SILVER WYANDOTTE EGGS—Prices reasonable; exhibition matings. Every first, Eastern Illinois show. Roy McCracken, Faxton, Ill. 3-5

EGGS FROM HEAVY layers, direct from winners. Breeding Tarbox strain. Louis H. Eickmeyer, R. 8, Watertown, Wis. 4-6

SILVER LACED WYANDOTTES—Have my pens mated to produce quality and layers; eggs, \$1.50 and \$2.50 per 15. E. S. Northrup, Reading, Mich. 4-5

SILVER WYANDOTTE EGGS at \$4 per 50, \$7 per 100. Let me know your wants. J. L. Harms, Route 2, Box 38, Fairbury, Neb. 4-5

SILVER WYANDOTTE EGGS, \$2 per setting. From layers and show birds. M. Guy Eby, Cassopolis, Mich. 4-6

WHITE WYANDOTTES

STANDARD BRED WHITE Wyandottes—Records 176 to 293. Eggs and stock from these birds bred for 12 years with the sole purpose of making a great production strain. F. K. Cooke, Winnetka, Ill. 5-7

WHITE WYANDOTTE EGGS—Fishel strain. Coliseum winners, \$1.50 per 15. Write for stock prices. R. E. Bullock, 4202 Delmar Avenue, St. Louis, Mo. 5

WHITE WYANDOTTES—Regals. Extra fine. Winners Indianapolis, St. Louis. Prices reduced balance season. 15 eggs, \$1; 50, \$3; 100, \$5. Herbert Smith, R. 8, Bluffton, Ind. 5

YOU WANT WINTER LAYERS?—Get Miller's White Wyandottes, bred with blood from best laying strains in America. Hatching eggs, 15, \$1.50; 50, \$3.50; 100, \$6. Some grand breeding stock for sale after June first at bargain prices; must reduce flock, going to move. Write your wants early, will make prices right. Alfred H. Miller, Prescott, Wis. 3-5

WHITE WYANDOTTE PULLETS—Show qualities and eggs. Trapped ten years. Won first on show, also on eggs. Hatching eggs. Choice breeders. Miss Marion I. Moore, Hamburg, N. Y. 4-6

\$4.25 PER 100 EGGS—Welday's Laymore White Wyandottes; quality unequalled; catalog. Welday, Seville, Ohio. 5

REGAL WHITE WYANDOTTES—Eggs from selected breeders and layers. Lloyd Caldwell, Neoga, Ill. 5-6

YOUR CHANCE NOW to obtain Regal Dorcas White Wyandottes and eggs at low cost. From my select flock, 35 choice females and 5 males. Among these are Newark and Columbus winners. These splendid birds will sell rapidly at the present prices, \$2.50 to \$5 each. Eggs from special pens, May and June, \$1.50 per 15. Do not hesitate on these offers, for we guarantee satisfaction. James C. Wilson, Peoli, Ohio. 5

WHITE WYANDOTTES exclusively—Stock and hatching eggs for sale. Orchard Poultry Yard, St. Peter, Ill. 12-16-1yr

WHITE WYANDOTTES—Stock and eggs for sale; write for price list. Earnest Massey, Mystic, Iowa. 2-18-1yr

TOM BARRON STRAIN White Wyandottes. Eggs from selected trap-nested hens, \$3 per 15. Infertiles replaced free. Brackstedt Bros., Hardin, Ill. 3-5

WHITE WYANDOTTES, S. C. Ancona eggs, \$5 per 100. O. J. Austin, Pana, Ill. 3-5

WHITE WYANDOTTES—Eggs from stock with breeding equal to any in America. Please write for prices and description of matings. I guarantee satisfaction. J. F. Garrison, Mt. Vernon, Ill. 3

WHITE WYANDOTTES—Blue ribbon winners. Pen eggs, two, three and five dollars per fifteen. Utility, nine dollars per hundred. Regal strain direct. Send for mating list. Ivor Jones, Bourbon, Ill. 3-5

WHITE WYANDOTTE eggs from Chicago winners, \$3 and \$5 per 15. Send for catalog. A. J. Shannon, Appleton, Wis. 3-5

JOHN BRUHN, HOMER, ILL., breeder of Ideal White Wyandottes. Guaranteed eggs from choice flock, \$1.50 per 15; \$7.50 per 100. 3-5

REGAL-DORCAS WHITE Wyandottes—Stock, eggs, chicks. Acme White Poultry Farm, Brookline, Vt. 3-5

WHITE WYANDOTTE EGGS—\$7.50 per 100. Good stock. Russell Simpson, Palmer, Ill. 3-5

WHITE WYANDOTTES exclusively—Several years' breeding, fine layers, snow white. Eggs, 15, \$1.50; 50, \$3.50; 100, \$6. Geo. Tuis, Fredonia, Kan. 3-5

WHITE WYANDOTTES—Eggs from blue ribbon winners, also heavy layers; a great bargain, \$3 per fifteen. Warner & Aderhold, Plymouth, Wis. 3-5

EGGS FROM 2 CHOICE exhibition quality pens of Regal White Wyandottes, \$3 per 15. Edouard Nicollier, Monroe, Wis. 3-5

WHITE WYANDOTTES—RUDY'S Perfection strain. Eggs for hatching; reasonable. S. Martin Nelson, Momece, Ill. 3-5

REGAL WHITE WYANDOTTE eggs, \$1.50. Fox Terrier pups. Walter Stubbs, Route 10, Kalamazoo, Mich. 4-5

WHITE WYANDOTTES—Eggs from exhibition stock, \$1.50 to \$3 per 15. L. A. Pollock, Batavia, Ill. 4-5

WHITE WYANDOTTES—"Keeler's" Aristocrats, 15 eggs, postpaid, \$1.50. Nick Fleck, Plymouth, Ind. 4-6

OWN-LAND FARMS' White Wyandottes (Regal-Dorcas)—Winners, Rochester, etc., since 1911. Proven prolific layers. Let us tell you more. South Hammond, N. Y. 4-6

WHITE WYANDOTTES—MARTIN strain. Pen 1, Regal matings, \$4 per 15; pen 2, Dorcas matings, \$3.50 per 15; utility eggs, \$6 per 100, \$1.50 per 15. C. R. Moses, Lake Crystal, Minn. 3-5

EGGS FROM PURE White Wyandottes—\$6 per 100. Mrs. C. C. Calhoun, Dow, Ill. 4-6

FARM RAISED, FREE range White Wyandottes—Eggs, \$3 per 50; chicks, \$4 per 25. Emile Burnier, Assumption, Ill. 4-6

WHITE WYANDOTTE—REGAL Dorcas strain. Bred to lay and win. Won wherever shown. Eggs, special matings, \$2, 15; \$3, 30. Utility, \$1.25, 15; \$3.50, 50; \$6.50, 100. Frank Hardwidge, Poneto, Ind. 4-5

EGGS—\$3.50 PER 15; chicks, 30 cents each, from trap-nested hens, pen average 187. C. W. Zelig, Appleton, Wis. 4-5

EGGS FROM WHITE Wyandottes—A strain which I have been improving for eight years, for both beauty and egg production. Watch the shows next fall. Eggs, \$2, \$3 and \$5 per 15; also chicks, April and May. Mrs. Julius Arp, Okoboji, Iowa. 4-5

WYANDOTTES—SEVERAL VARIETIES

SILVER AND PARTRIDGE Wyandottes—If you want some of the best birds raised on Pacific Coast, write me your needs. Eggs, \$3.50 per setting. Guarantee satisfaction. The Idle Hour Poultry Farm, McCoy, Ore. 4-6

SEVERAL BREEDS

LOOK—**COCKERELS** and pullets, bred from either White Wyandottes or Single Comb Rhode Island Reds with trapnest records of over 200 eggs, headed by cockerels bred from prize winning hens whose official records run far above 200 eggs. 2 months old cockerels, \$2-\$2.50; 6 months old, \$4-\$4.50; 9 months old, \$4.50-\$5. Pullets, same ages, \$1 cheaper. This quality of stock is scarce, but it's the only kind that will make you money from high priced feeds. Federal Poultry & Stock Farm, Federalsburg, Maryland. 5-18-ff

S. C. WHITE LEGHORNS, Rhode Island Reds, Dark Cornish, Light Brahmans, White Plymouth Rocks, Reeves Pheasants. Catalog free. Mt. Angel College Poultry Ranch, St. Benedict, Oregon. 5

BLACK JAVA, **BLUE** Andalusian eggs, \$1.50, 15; Blues, 1918, late Chicago winners. Herbert Hodgson, Albion, Ill. 5

OWEN FARMS White Orpingtons; heavy laying strain Buttercups. Hatching eggs. Grace Roe, Sherburne, N. Y. 5-6

ARE YOU LOOKING for eggs and lots of them? We have the kind that lay. Barred Plymouth Rocks and Single Comb White Leghorns, trapnested, big husky stock. Eggs for hatching, \$3 for 15. Parcel postage paid. Graham Brothers, Cisne, Ill., Dept. A. 4-5

HATCHING EGGS—Langshans, Minorcas, Red Caps and Bantams, \$2 per setting or assorted settings. W. Dane, Oshkosh, Wis. 5

ENGLISH PENCILLED I. R. duck eggs; S. C. W. Orpington chicken eggs; \$1 for 15, or \$3 for 50. Mrs. George Hagedorn, Linn Grove, Iowa, Route 3. 5

SALMON FAVEROLLES, Millefleur Bantams, Erect White Runner ducks; extra fine. N. G. Buxten, Johnstown, Ohio. 3-5

WHITE WYANDOTTES, S. C. Black Minorcas, S. C. Buff Orpingtons, White Guineas; best stock; eggs cheap. Elmer Patterson, Dix, Ill. 2-5

BUFF ROCKS, CRESCENT strain; White Rocks, Fishel strain, and White Orpington, Aldrich strain; eggs; Buff baby chicks. Rachel Sheppard, Route 1, Pearl, Ill. 2-5

BREEDER OF 20 VARIETIES of poultry, 15 varieties of Bantams. Stock and eggs for sale. The home of blue ribbon winners. Plain View Poultry Farm, New Knoxville, Ohio. 3-5

ROYAL W. WYANDOTTES, R. C. Rhode Island Reds. Extra quality pens headed direct from Chicago winners. Heavy layers. Reasonable prices; satisfaction guaranteed. Write for mating list. Lester Barkman, Ohio, Ill. 3-5

ROSE COMB ANCONAS and American Dominiques. Ask for circular. Miss Helen Hoppe, Melrose, Minn., Route 3. 3-5

EGGS, 13 FOR 1, 30 for \$2. Thorobred Rocks, Wyandottes, Reds, Leghorns, Hamburgs; 19 varieties; 36 years. Catalog. S. K. Mohr, Coopersburg, Pa. 3-5

R. C. W. LEGHORNS—Winners at Chicago, Milwaukee, Minneapolis, Duluth and many others. Eggs for hatching, \$10 per 100; \$5 per setting. White Plymouth Rocks, Halbach's strain, winners at North Dakota State Fair, 1917. Eggs, \$5 per setting; \$15 per 100. Mrs. J. Wolf, Merrillfield, N. Dak., Box 40. 4-6

EGGS—SINGLE COMB Rhode Island Reds, Buff Orpingtons, 15, \$1.50. White Pekin ducks, 11, \$2. Harold W. Price, Fulda, Minnesota. 4-5

EGGS—\$1 PER 13; \$2 per 30. From thoroughbred Silver Campines, Light Brahmans, Columbian Wyandottes. \$1 per 15; \$2 per 40, from Rocks, Reds, Leghorns, Minorcas. S. G. Bealer, Coopersburg, Pa. 4-6

BOURBON RED TURKEY eggs—Old hens scored stock; extra large dark red, 50 cents each; \$4, 10; \$7 per 20. Single Comb Red. White Rock eggs, \$2.50 per 15, \$5 for 50. Mrs. Frank Spurling, Lovington, Ill. 3-5

BRED-TO-LAY STRAIN White Wyandottes, Rhode Island Reds and Barred Rocks—Eggs in season. N. E. Robart, Caledonia, Mich. 4-6

EGGS FROM EXTRA Good Rose Comb Rhode Island Whites and Reds. Prices right. Omer J. Sears, Lapel, Ind. 4-6

DUCKS

BUFF DUCK EGGS—\$2 per 22. I will replace unfertile eggs. Alex J. Fix, Monroe, Mich. 5-6

BLUE MUSCOVY—All Star matings. Eggs. 13-lb. drakes. Originator. Al Piper, Oak Lawn, Ill. 5

WILD MALLARD DUCKS—Eggs and large supply of fine birds for sale. Perfectly mated. Safe delivery and satisfaction guaranteed. Large supply new stock secured each year. Wm. Stangle, Camden, Ind. 5-7

GIANT ROUENS, CAYUGAS—Chicago, Indianapolis winners. Eggs, any quantity; reasonable. Willow Creek Duck Farm, Warsaw, Ind. 5

"WHITE EGG" PEKIN Ducks, \$1.50 setting. Woodford Poultry Farm, Station M, Cincinnati, Ohio. 3-5

PEKIN DUCK EGGS, \$1.25 per 13. Clarence Velandier, Welch, Minn. 3-5

PEKIN AND PENCILLED RUNNER duck eggs, \$2 for 12. A. Moritz, Rahway, N. J. 3-5

EGGS FROM PRIZE winning White Pekins at Chicago shows. Also few fine young drakes. Prices reasonable. Alfred Hobein, Broughton, Ill. 3-5

WILD MALLARD DUCKS—Most beautiful of all water fowl. Easy to raise. Thoroughly domesticated. Eggs, \$1.50 per setting. No stock for sale. H. E. Woodruff, Oxford, Ohio. 3-5

BUFF ORPINGTON DUCKS—Eggs, \$2, 12. Satisfaction guaranteed. Forest A. Thurmon, Jonesburg, Mo. 3-5

EGGS FROM LARGE White Pekin ducks, \$10 per 100. Bearden Poultry Farm, Thayer, Iowa. 3-5

221-EGG STRAIN Indian Runner ducks; greatest producers. Stock and eggs. F. L. Reinhart, Ottumwa, Iowa. 3-5

MAMMOTH PEKIN DUCKS—Weighing 10 to 12 pounds each. Eggs, \$1.50 per 11; \$7 per 55. Hersey's Poultry Farms, Parkersburg, Iowa. 4-6

BUFF DUCK EGGS—\$2 per 22. Alex J. Fix, Monroe, Mich. 4-6

BUFF ORPINGTON DUCKS—Stock and eggs. Jacob Leatherman, Wadsworth, O. 4-5

BUFF ORPINGTON DUCKS—Good stock. Eggs, \$1, 13. Eyer Bros., Kalida, O. 4-5

PEKIN DUCKS—Select yearling breeders \$3 each. Eggs, 11, \$1.50; 50, \$5.50; 100, \$10. Valley View Farms, Grove City, Pa. 4-6

GEESE

PURE-BRED MAMMOTH Toulouse Geese eggs, 30 cents each. M. Retherath, Stacyville, Iowa. 3-5

MAMMOTH TOULOUSE GEESSE—Blue ribbon winners; eggs, 35 cents each. Fred Scholl, Memphis, Ind. 3-5

MAMMOTH TOULOUSE GEESSE—Eggs from choice stock, 35 cents each. Springbranch Poultry Farm, Belleville, O. 4-6

EMBDEN GEESSE EGGS—30 Cents. Marion Buckner, Poneto, Indiana. 4-5

DUCKS AND GEESSE

THIRTEEN VARIETIES—Toy and Large Ducks. Six varieties Geese. Twenty-five varieties Chickens, including Brahmans, Rocks, Frizzles, Silkies, Bantams, State Fair winners. Circulars for stamp. Lee Kyburz, Honey Creek, Wis. 4-6

TURKEYS

AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our ad. on page 580. 2-ff

MAMMOTH BRONZE TURKEYS—Flocks headed by 35 to 40-lb. champion toms. Eggs, \$5 per 11. Can make shipments on short notice. Fair Oaks Farms, Waukegan, Ill. 5

WHITE HOLLAND TURKEYS—Eggs, \$3 dozen; 25c off every other dozen. Do not order less than dozen. Guarantee reasonable hatch. Order direct from advertisement. Parcel post on eggs extra. Harry Moore, Iroquois, S. D. 5

WHITE HOLLAND, WHITE Rock (Fishel), Embden, Goose eggs, tomato and cabbage plants. Grace Garnett, Marlon, Mo. 3-5

MAMMOTH BRONZE TURKEY eggs—From the long established yards of Sunnyside. Good healthy stock; farm range; price per setting of 12, \$3.25. Sunnyside Poultry Yards, Calamine, Wis. 5-6

55-LB. STRAIN—40-lb. tom, \$12; 36-lb., \$10. Lorenz Co., Perryville, Mo. 5

EGGS FOR HATCHING from giant M. B. turkeys, the big kind; prices reasonable, considering quality. E. H. Hayward, Fairbank, Iowa. 3-5

GIANT BRONZE TURKEYS—Champion Gold-Bank strain. Hens weigh 20 to 25 pounds; pullets, 16 to 19. Tom sired by bird who won first at Madison Square Garden and Chicago. Eggs, 50c each. A. L. Ackerman, Rich Hill, Mo. 3-5

BOURBON RED TURKEYS—Eggs, \$3 for 11. Extra eggs, 25 cents each. We guarantee fertility and safe delivery. Edgewood Poultry Farm, Bloomington, Ind. 4-6

AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 580. 2-15-ff

PHEASANTS

PHEASANTS AFFORD MUCH pleasure and profit; 20c for booklet, "The Pheasant Industry," giving full instructions. Oak Grove Pheasantry, North Manchester, Ind. 3-5

PHEASANTS, WILD WATER Fowl, Deer, etc.—I have a superb lot of the following birds now for sale, just right for breeding the coming spring and summer: Pheasants: Ring Neck, Mongolian, Chinese, Golden, Silver, Reeves and Amherst, both young and adult. Water Fowl: Wood Duck, Mandarin, Mallards and Call ducks; Black Swan, Canada geese, Egyptian geese. Pheasant eggs—I am now also booking orders for eggs of the following varieties: Mongolian, Ring Neck, Chinese, Golden, Silver, Lady Amherst and Reeves. Wild Duck eggs—Wood Duck, Mallard and Gray Call. All the eggs I ship are guaranteed to be from non-related, pure-bred, strong, healthy birds correctly mated; all eggs are guaranteed not over three days old when they leave my farm. Full instructions given with each order as to setting, hatching, feeding and general care of the young birds. Wallace Evans Game Farm, St. Charles, Ill., largest and most successful breeders of pheasants, wild water fowl, deer, etc., in the world. 3-5

FOR SALE—**GOLDEN Pheasant eggs**, \$3.50 per dozen. Golden males, 2 years old, \$4; 1 year old, \$3. Fred Guenther, 1538 Washington Ave., Piqua, Ohio. 3-5

PHEASANT EGGS—**GOLDEN** and Chinese Ringneck. Wm. F. Grimm, Antigo, Wis. 4-6

RINGNECK PHEASANT EGGS for hatching, 15 for \$3.50. Rockhorn Farm, Wheaton, Ill. 3-5

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WANTED—5,000 COMMON or Homer Pigeons. Pay at least 25c pair. Market poultry wanted. D. Gilbert, 1128 Palmer St., Philadelphia, Pa. 11

I OFFER GUARANTEED MATED Homers in any quantity at \$1.00 per pair. Beautiful White Homers, \$1.50 pair. Squab companies challenged to produce better stock at twice this price. Get my prices on Runts, Carneaux Maltese hens and save dollars. Squab Manual, 25c. Charles A. Gilbert, 346 No. American St., Philadelphia, Pa. 11

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BEAUTIFUL COLLIE pups, \$5 to \$11. Meadow Farm, Coulterville, Ill. 4

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BEAUTIFUL ANGORA CATS and kittens; make the best ratiers, \$5 up. Stamp for reply. Bay View Farm, North Haven, Maine. 3-5

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IT PAYS TO RAISE canaries—Big demand; start at home; spare time. We show you how; very little capital necessary; high grade songsters; breeders furnished. Monarch Specialty Co., Evanston, Ill. 5-7

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WHITE AFRICAN GUINEA eggs, 15, \$1.50; 30, \$2.75; 50, \$4.50. Julia Moore, Kahoka, Mo. 5

ORNAMENTAL

ORNAMENTAL LAND AND WATER Fowl. Pheasants: English Ring-Neck, Silver, Golden, Lady Amherst and Reeves. Ornamental Ducks: Redheads, Canvasbacks, Bluebills, Mandarins, Spoonbills, Pintails, Green-winged Teal, Blue-winged Teal, Cinnamon Teal, Wood-ducks, White English Calls, Mallards, Black Mallards, and Grey English Calls. We also have Canadian Wild Geese, Egyptian Geese, California Valley Quail, Bobwhite Quail, and dozens of varieties of pigeons. Eggs in season and stock for sale at all times. Send 25 cents for our instructive booklet, "Management and Care of Pheasants and Other Ornamental Fowl." Fair Oaks Farm, Dept. A, Waukegan, Ill. 4-6

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WANTED—A GOOD milch goat for a young baby. Dr. E. J. Deering, Pullman Bldg., Chicago, Ill. 5

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2 NO. 3 PRAIRIE STATE incubators, 1915-1917 models, \$25 and \$30. C. C. Burton, Geff, Ill. 5

FOR SALE—SIX 600-egg Candee sections. A-1 condition. Pendrey & Vance, R. 1, Wilmington, O. 5

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PRAIRIE STATE INCUBATORS for sale—I have for sale several Prairie State Incubators of 400 egg size, one 240 egg size and one 160 egg size. These machines are in good condition and I will guarantee they will give complete satisfaction. I have recently installed a Hall Mammoth Incubator, hence have no immediate need of these individual incubators. Kindly address inquiries to Frank E. Hering, South Bend, Ind. 4-5

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SALE OR EXCHANGE— Guns, Mackinaws, Sweaters, Shoes—Genuine Army Shoes, \$6. Exchange for poultry, pet stock, fur animals. Write M. Frederick, Waukon, Ia. 4-6

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EXPERIENCED PRACTICAL EGg farm poultryman wants position. Married; no children; age 37. 10 American Poultry Journal, 523 Plymouth Ct., Chicago, Ill. 5

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WANTED TO BUY—500 pair pigeons, including Carneaux, White and Colored Homers, Fantails, and many varieties of pure bred poultry. Describe what you have, quoting lowest prices in first letter. Z. G. McKay, Clinton, Iowa. 5-6

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACT OF CONGRESS OF AUGUST 24, 1912,

OF AMERICAN POULTRY JOURNAL PUBL. CO., published monthly, at Chicago, Illinois, for April 1, 1918.

State of Illinois, County of Cook, ss.
Before me, a Notary Public, in and for the State and county aforesaid, personally appeared James W. Bell, who, having been duly sworn according to law, deposes and says that he is the Editor of the AMERICAN POULTRY JOURNAL, and that the following is, to the best of his knowledge and belief, true statement of the ownership, management (and in a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, embodied in section 443, Postal Laws and Regulations, printed on the reverse of this form, to-wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are:

Publisher—AMERICAN POULTRY JOURNAL PUBL. CO., 542 So. Dearborn St., Chicago, Ill.

Editor—James W. Bell, 542 So. Dearborn St., Chicago, Ill.

Managing Editor—Dr. Prince T. Woods, Silver Lake, Plymouth Co., Mass.

Business Manager—James W. Bell, 542 So. Dearborn St., Chicago, Ill.

2. That the owners are: (Give names and addresses of individual owners, or, if a corporation, give its name and the names and addresses of stockholders owning or holding 1 per cent or more of the total amount of stock.)

James W. Bell, 542 So. Dearborn St., Chicago, Ill.
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3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.)—None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

5. That the average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the six months preceding the date shown above is — (This information is required from daily publications only.)

JAS. W. BELL,
Business Manager.
Sworn to and subscribed before me this Twenty-second day of March, 1918.
(SEAL) ALICE A. SHEHAN,
Notary Public.
(My commission expires June 20, 1920.)

ILLUSTRATED BREEDERS CARDS

Rates for Illustrated Breeders' Cards: With small sized illustration (to be furnished by us), 40 words 1 month \$3.00, each additional word 7c; 40 words 3 months \$8.00, each additional word 20c; 40 words 6 months \$15.00, each additional word 37c; 40 words 12 months \$25.00; each additional word 62½c. Numbers and initials count as words. Terms: Cash with order. Minimum charge, 40 words. Copy for advertisement, plainly written, should reach this office by the 15th of month preceding date of issue. In answering these ads, please mention American Poultry Journal.



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We expect to hatch our Best Chicks for 1918 in May and June, and will share with our patrons Eggs for Hatching from same pens.

From Best Pens — \$10 per 12, \$20 per 26, \$25 per 33, \$67 per 100; carefully selected and packed to carry safely any distance. Our breeders for sale at close of season. We do not sell Baby Chicks.

At Boston, 1917, we won: All seven prizes on Cockerels; 1st Pen Chicks; 1st Pen Fowls; 1st Pen mated for Cockerel Breeding; 1st Cockerel-bred Pullet; Special Exhibition Pullet; National Trophy Cup, value \$50, for best Cock, Cockerel, Hen, Pullet and Pen.

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Farmers and Poultry Keepers in the United States each to preserve one case—thirty dozen—of eggs when eggs are cheap, and sell one case to a nearby consumer to preserve.

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Place three pounds of unslaked lime in five gallons of water and let it stand until the lime settles and the liquid is clear. Use same as water glass.

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Infertile Eggs Keep Better Than Fertile

THE RESULTS

Eggs Stored Without Waste by Consumers When Eggs Are Cheap to Use in the Season of Scarcity. Less Eggs to Go to Terminal Markets in Hot Weather When Unavoidable Losses in Handling are Heaviest.

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First Prize Winners, Madison Sq. Garden, '18, Chicago Coliseum, '17-'18

My recent winnings at these largest shows in America are conclusive proof that my strain has everything desired in this beautiful breed. I have also improved the egg production and have individual records well over the 200 mark. As my strains have been bred that way for years, it stands to reason that this quality is inherited by the progeny. My pens are mated and contain the best birds in the United States.

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from the finest matings in the country are now offered to those desiring fowls that are “profit producers.” I have just added the entire flock of Columbian Wyandottes of the Wilburtha Farms, Trenton Junction, N. J. All their winners are in my yards. This magnificent strain added to my own gives me the largest and best flock of Columbian Wyandottes in the country.

The Quality is Exceptionally Good. The Prices I Ask Extremely Reasonable.

Send for my free catalog and mating list giving full information.

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Box A

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E. B. Thompson's Imperial "Ringlet" Barred Plymouth Rocks



win at the Imperial Show of all the world, Madison Sq. Garden, N. Y., January, 1918, a new record unequalled in all history, as follows:



EVERY FIRST PRIZE OFFERED

Cocks	- - - -	1st, 2d, 3d, 4th, 5th.
Cockerels	- - - -	1st, 2d, 3d, 4th, 5th.
Pullets	- - - -	1st, 2d, 3d, 4th, 5th.
Hens	- - - -	1st, 2d, 3d, 5th.
Exhibition Pens	-	1st, 2d, 3d, 4th, 5th.



One of the Great Imperial "Ringlet" Males.
Observe the Wonderful Shape, Color and Barring.

Sweepstakes Champion Male and Female; Color and Shape Specials Male and Female; Best Five Males; Best Five Females; Best Display, and every other Special Prize. This is the capstone to their unexampled record at New York for 30 victorious years. At the last four shows—1915, 1916, 1917, 1918, they have won 19 First Prizes out of 20 offered. Every bird bred on my farm. Supreme at Madison Square Garden is Supreme Everywhere.

IMPERIAL "Ringlet" EGGS

May and June are the Banner Months to Hatch Silver Cup and First Prize Winners

Scores of my First Prize Winners and those of my customers have been hatched in May and June. At the 1918 Garden Show my 1st, 2d and 3d Prize Cocks; 1st, 2d, 3d, 4th and 5th Prize Pullets; 1st Prize Hen; 1st Pen Cockerel, and several pullets in my five winning pens were all hatched in June.

My Eggs are the best that money can buy—they produce first prize birds.

Mr. E. B. Thompson:

Dear Sir:—I showed the E. B. Thompson strain at Charles City, December 18th to 21st, won 1st and 2d Cocks; 1st, 3d and 4th Cockerels; 1st, 2d, 3d, 4th Hens; 1st, 2d, 3d Pullets; 1st, 2d Pen. At Hampton, Iowa, January 7th to 12th—1st, 2d Cocks; 2d, 3d, 4th Cockerels; 1st, 2d, 3d, 4th Hens; 1st, 2d, 3d, 4th Pullets; 1st Old Pen; 1st Young Pen. I think that shows that E. B. Thompson has the stuff.

Clarksville, Iowa, January 14, 1918.

Yours truly, J. E. WEISS.

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Elegant catalogue mailed upon request.

EGGS from the finest Exhibition Matings in the World; one setting \$15; two settings, \$25; four settings, \$45; 100 Eggs, \$80.
Safe Arrival Guaranteed

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AMERICAN POULTRY JOURNAL



VOL. 49,
NO. 5 6

JUNE,
1918



Mash Makes Eggs—Mash Makes Chicks Grow

If you would be successful as a poultry raiser, take for your feeding motto—M-A-S-H—whether for egg production or growing chicks.

Remember that Mash, not Scratch Grains, is the proper feed to make hens lay, and that a good growing mash is the ideal feed for young growing chicks.

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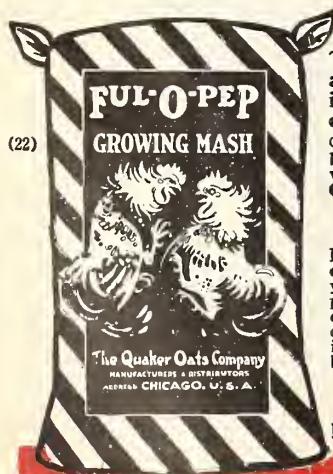
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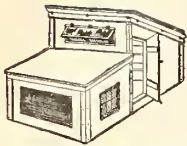
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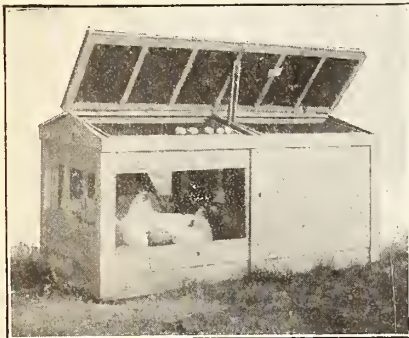
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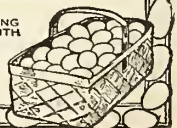
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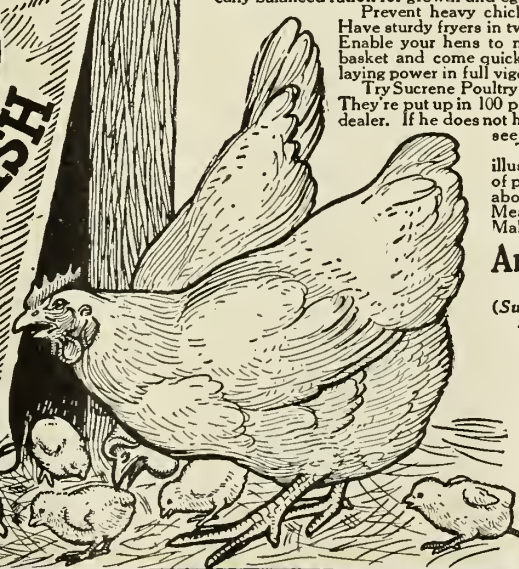
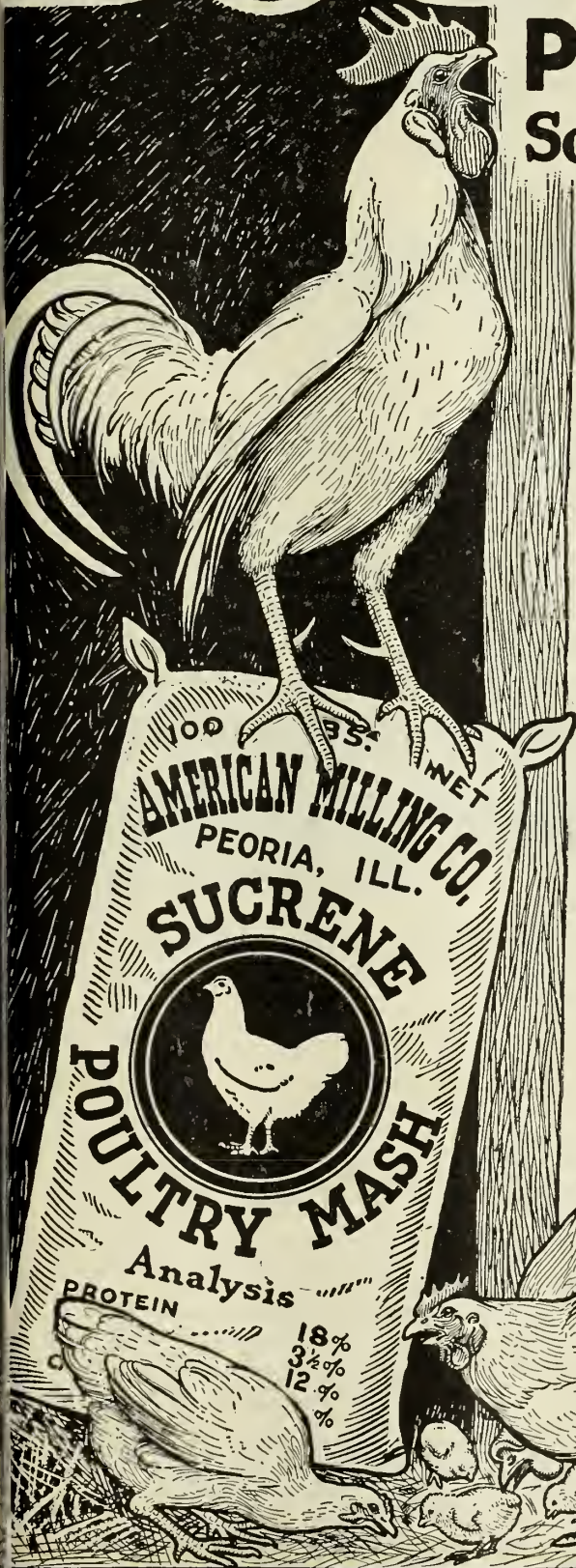
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AMERICAN POULTRY JOURNAL

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879.

Volume 49

Chicago, Ill., June, 1918

No. 6

PARTRIDGE PLYMOUTH ROCK COLOR

The Defects in Plumage and How to Value Them. An Article On Scoring,
and Description of Defects to Be Avoided in Mating. *By Theo. Hewes*

THERE is something fascinating about the judging of poultry. This is not alone true of the amateur or beginner, but it is just as true of the old time fancier or those who are familiar with the show room and study the work of the experts almost every week during the winter months. And while the judging of all fowls is of more or less interest, the judging of parti-colored breeds is especially so, and since there is such a wide variation of color found in our leading exhibitions and judges themselves have a tendency to let hobby lead them astray, we are illustrating here some of the common defects that are found in Partridge Rocks, or in fact all Partridge colored fowls, that may in the right way lead them to a better understanding of the ideal and give to the breeder and the judges as well the correct idea of how to punish the defects.

In the color description of the Partridge Rocks in the Standard we find the same general description of the female in all sections, except neck. The Standard reads, "Mahogany brown, distinctly pencilled with black, the outline of the pencilling conforming to the shape of the feather." And as a footnote to the color description, "In all Partridge colored females we find the following: Each feather in back, breast, body, wing bows and thighs to have three or more distinct pencillings." And another description of color and one we wish to pay particular attention to before going further with this article is, "under-color of all sections, slate."

Having served on the Revision Committee that framed the above word description, I want to explain my position in changing of the sentences from "dark slate" to "slate." And for the information of the novice or new breeder of Partridge Colors, I wish to emphasize this one point—do not be afraid of "light slate," or, in fact, of pure white under-color in your male line if you wish to breed exceptionally strong colored females. In fact, as Partridge Rocks are bred today and as the awards are made at the average show, we question if it would not be more advisable for the breeder to mate separate pens, one for the production of cockerels, the other for the production of pullets. Because the light male, the one I refer to here, and the one that makes the best breeder for exhibition females is too light for exhibition and would be set back by the majority of judges regardless of shape and general surface color. A male bird for pullet breeding should have bright even color on top surface, with quite a lot of pencilling in body and fluff. Under the head of "Disqualifications" the Standard says in describing males: "positive white in main tail feathers, sickles or secondaries." Under this disqualification, a bird can show white in primaries or flight feathers without being disqualified, but should this white run into the secondaries or the main tail or sickle feathers, the specimen is thrown out. And it is quite often that from just such birds as are disqualified that you would get your best females. I wonder sometimes if the English breeders were not right when they said it was not necessary to remove a bird from the cage to award the color special. That surface

should govern in all cases and under-colors should be a secondary consideration. It is actually amusing to see the way a man will grab a bird out of the cage and turn it wrong side out to show you what a handsome under-color it has when the chances are the surface is so rotten that it would not have a second look by the judge in making his awards. Get your top color right first, then look after under color.

Before going into detail in pointing out the defects in the several feathers as shown in the chart, I wish to call attention to the words descriptive of the neck of the female. The Standard says, "reddish bay, center portion of feather black, slightly pencilled with mahogany brown; feathers in front of neck, same as breast." With this description it is not necessary that we have a perfectly black center in the neck of the female, but it is vastly important that the lacing continue around the entire lower end of the feather. But we should have gone farther in this color description and have said that the pencilling in the neck should conform to the pencilling in the other sections of the bird. In other words, if we are going to have a nicely pencilled back, breast and wing bow, then the same general formation of pencilling should appear in the neck; not so strong as in the other sections on the surface, but of sufficient strength to show distinctly in the outline of the feather when viewed separately. I remember a few years ago that the question of the double mating of this color was taken up by members of the American Poultry Association, and especially by breeders that were interested in the Partridge color. And they stated that to avoid the double mating it was necessary to allow the male to have some tinge of red in the body or fluff sections, and the present Standard allows for this. In the description of color in this section of males, it says, "body, black; fluff, black, slightly tinged with red." It may be possible that this allowance of tinged color in fluff would bring the desired result, but my own opinion is that it would be far better to depend more on lighter under-color for producing the perfect color in females, rather than the tinge or mussed up color as described by the Standard. For a number of years there has been a difference of opinion as to the number of lacings or stripes that the perfect feather should possess. And in arguing this question out with several prominent Partridge color breeders we decided to select the best feathers from the specimens that were then on exhibition and from this selection try to agree upon what would be best for all. And you will be surprised to know that the number of stripings or lacings had absolutely nothing to do with the general surface color. Birds with a double lacing had just as good mahogany surface as others that had four or five lacings, and among the feathers that were selected from these specimens we found not one, but several that had five distinct pencillings outlined in the feathers, not alone on wing bow, but on body and breast as well. Some even carried this color well up under the throat. But believing that we would set a stake too far ahead, even for the experts to maintain by calling for five lacings, we finally compromised on three, so that



PERFECT AND DEFECTIVE FEATHERS OF THE PARTRIDGE PLYMOUTH ROCK.

the Standard as it reads now calls for three or more distinct pencillings, but should the specimens have practically the same value from an exhibition standpoint, be tied for a prize, then the one that had more than three pencillings should be given the preference in the award.

In the chart of feathers as shown here, we have illustrated only the defects in the female. Feather No. 1 is a perfect hackle feather as described by the Standard. And this feather would also be perfect should it have the pencilling referred

to above and this pencilling run even around the entire feather. No. 2 shows a tracing of pencilling, but it is broken up and does not run the entire length of the feather. Then there is another serious defect in No. 2 in that the black runs to the point instead of being laced around the end and would give a specimen a dark or smudgy appearance in the neck. A feather like No. 2 should be discounted 2 points. In No. 3 we find a decidedly better feather. Not alone from an exhibition standpoint but from a breeding standpoint as well.

In fact, it is a feather that many breeders would give considerable preference in mating up their pens. Here you have an outline of pencilling, and while it runs more or less uneven, it conforms reasonably close to the ideas of a perfect feather, but unfortunately for this one the black and red intermingle, not alone in the center of the feather but in the edge of the feather as well, and carry a little of it around the lower edge so that a neck like figure 3 should be discounted 1 point. In No. 4, we find a feather that is badly defective, being nearly red on one side of the shaft and only partially pencilled on the other side and some of the black running to the edge of the feather on the side. Feathers like this showing prominently in the neck of the female should be discounted 2½ points. In feather No. 5 we have entirely too much black. If all of the feathers in the neck section should be as dark as this, the neck would be smutty black at the base and show but a trifle red around the upper part near the comb. There are no markings that would indicate a pencilled feather, but more after the style of a spangle. Both colors, red and black, are defective in this case and a section showing feathers like this should be discounted 3 points.

In feather No. 6, we have what the Standard describes as an ideal feather, three distinct pencillings properly divided between red and black. The overlapping of feathers of this character gives to the specimen that rich mahogany top color that is so much desired by Partridge breeders and is without question the reason of the popularity of this color today. Feather No. 7 does not show bad on the surface, but it is uneven in the outlining of the pencilling and breaks up bad at one side near the point and should be discounted 1½ points. Feather No. 8 is too dark in the center, only showing one outline of pencilling, almost black in the center, but still carrying a very good interlacing on the surface and should be discounted 2 points. Feather No. 9 is badly shot, the black and red intermingling. There is no distinct color, the black runs to the surface on one side and shows too much red on the other side. A feather like this should be discounted 3 points. In feather No. 10, we find a defect that is common. And you will find just such feathers as this in almost every one of your very best specimens, unless the exhibitor was wise to the fact and removed them before the judge had an opportunity of passing on the bird. The general formation of this feather is not bad, but instead of the pencillings running around the feather as it should it stops short where it joins

on to the shaft and in addition shows quite a little black at the outer edge or tip. A section showing many feathers of this color would be a sort of dingy mahogany, lacking the lustre that is necessary to bring out all of the good features, while the under-color when closely examined would be objectionable from a breeder's standpoint, and should be discounted 2 points. In feather No. 11, we have another ideal. In feathers taken from wing bow and sometimes found up close under the throat of our best colored specimens. It is one of the short feathers and one of the very hardest to get perfect, both in pencilling and in mahogany surface, and should be passed without discount. Feather No. 12 is broken up in the pencilling, running more or less zigzag, but still showing not a bad surface until examined closely, and many specimens of this kind are found in the shows of this country today. But it is not an ideal feather as compared to 6 or 11 and should be discounted 1½ points. In feather No. 13, we find a color defect not so common in the present day Partridge color, but it is a defect that will soon make an appearance if you are careless in your mating. The pencilling runs in scallops or half spangles and runs to the edge of the feather instead of running the length of the feather. Still the outer surface of this feather is not bad and even with the defect underneath does not make a bad mahogany finish, but should be discounted 2 points, as it will most surely reproduce and would be dangerous to breed from, no matter how good the line of males you might have to mate with. In feather No. 14, we have indistinct pencilling. A specimen showing feathers like this has a sort of grayish-brown effect on the surface. It is neither mahogany or steel gray, but a color between the two. But it is a color that is quite often found on the backs of our Silver Pencilled Rocks and Dark Brahmas. In these breeds it would not be such a severe handicap, but in the Partridge color it is a serious one, as the red and black intermingle thruout. It lacks in color underneath, is decidedly defective on surface and should be discounted 2½ points. In feather No. 15, we have a decidedly better outlining so far as the pencilling is concerned, but we have the same trouble of black and red intermingling. But the tracing of the lines on this feather are so near correct that a proper mating would bring it back to standard. I would recommend that breeders be very careful in discarding this color, especially so if you have a good light under-colored male showing quite a little red in body and fluff, and especially if this red in the fluff



THIRD PRIZE S.C.R.I. RED COCKEREL IN CLASS OF 51. MADISON SQUARE GARDEN NEW YORK JANUARY 1918. Bred And Owned By OWEN FARMS VINEYARD HAVEN MASS

SECOND PRIZE S.C.R.I. RED COCKEREL IN CLASS OF 51. MADISON SQUARE GARDEN NEW YORK JANUARY 1918. Bred And Owned By OWEN FARMS VINEYARD HAVEN MASS

and body is inclined to lace similar to the females. In feather No. 16, we show an ideal hackle feather of the male. A black feather laced with red, the red running entirely around the lower edge of the feather, while in figure No. 17 we show the same feather with black extending to the point, making one of the most serious defects that we find in Partridge males, a smutty dark ring around the base of the neck.

The general surface of the males as we have studied them for the past five years would lead me to believe that the breed-

ers are going too strong. You should have a brilliant red, free from orange or buff, at the same time a sufficient contrast between red and black to give the surface that brilliancy of reflection so much desired and so much admired by fanciers of this variety. Quite often we see males where there is practically no difference between red and black. They have bred them to a point where the red is such a dark red that it makes no contrast and it shows a smudgy lusterless surface that, to my eye at least, is far from Standard.

Common Sense Method of Raising Chicks

I Can Care for 500 Chicks with a Colony Brooder in the Same Time Required to Care for 75 Chicks with Five Hens. First Prize Article in American Poultry Journal Monthly Contest. *By J. R. Handyside*

COMMON sense is the forerunner of success in poultry keeping as well as in any other business. The practical use of common sense was the making of Lincoln, in fact most every man of talent in early history was a man who made common sense his motto and daily companion. How many have read of some great labor-saving device or remedy to overcome the big obstacles that present themselves in the poultry business, only to have it fail on trial and probably cause considerable loss? About that time it is customary to stop and think and the usual decision is that if we had thought in the first place and used a little common sense reasoning, we would have known better and could have prevented the loss.

As an illustration, several years ago I had 100 chicks ready to place in a brooder. It was about dark and every minute

I consider the method a good one.

I use the colony brooders entirely. If you can obtain hard coal, any of the coal burning stoves will usually give entire satisfaction. Why do I specify hard coal? Two years ago one of our neighbors ran out of hard coal. He tried using soft coal, for the manufacturers claimed that it would burn satisfactorily. The result was that he lost nearly fifty percent of his chicks and the poultryman was in bed for four days on account of being gassed. This year we are using oil burning colony brooders on account of the shortage of hard coal and they have been entirely satisfactory to us so far.

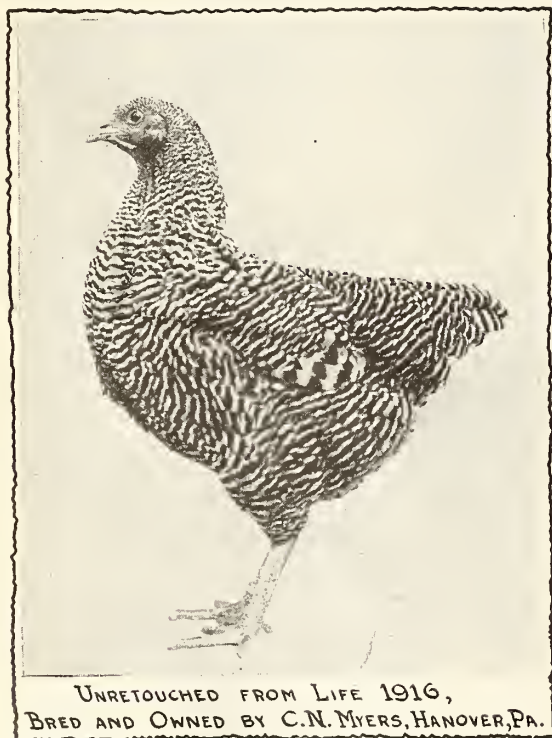
I use and recommend a room about ten by fifteen feet, with the brooder in the darker half. The entire floor is kept covered with hay chaff from the barn floor or mow. On the south or opposite end from the brooder we have windows for light and about one-fifth of the end is muslin. I have been in brooder houses where the air was so hot and close it would almost take one's breath away, but I do not believe in that method of brooding. The air should be kept fresh and warm and it will be that way if you have the right kind of a stove and a method of ventilating which gives no draft in the building, and this can be planned out to fit any style of building.

We use one and two-gallon size fountains set on shallow boxes which raises them about two inches off the floor. This keeps the water from getting contaminated by the litter being scratched into it by the chicks. We give sour milk as a part of the drink when we have it, or can get it, for as we ship whole milk it is rather a scarce article. If feeding sour milk at all, feed it all sour or it is liable to cause trouble when a change is made from sour to sweet.

We feed five times a day until the chicks are twelve weeks old, unless we feed the mash in hoppers after they are three weeks old. The scratch food is fed at six o'clock, twelve and six, and the mash is fed dry at nine and three. And the chicks always get their food on time. It pays. Coarse oatmeal is one of the best chick foods there is. We like to have it form one-half of the scratch grain for the chicks, the other half being composed of cracked corn and wheat or prepared chick food. At the two mash feedings they get equal parts cornmeal, bran, middlings and beef scrap, which is sifted, and one pound of salt added to each one hundred pounds. Chick grit and charcoal are kept before the chicks at all times. When the chicks are small we feed the mash on galvanized iron trays three feet square. These are easily cleaned after each feeding. Common sense tells us that we should keep things as clean as practical, for cleanliness is a forerunner of success in chick rearing. We clean the brooder houses out every week, and twice a week when chicks are small—oftener if they need it.

We usually brood about five hundred chicks in one flock and if things are kept reasonably clean there is no more danger of disease than where there are fifteen or twenty chicks under a hen where lice are sure to find the little fellows. One idea we carry in mind is to keep the chicks in control when they are small. We keep a strip of wire mesh netting around the brooder until they learn where to go to get warm, and then gradually make the pen larger, until in four or five days we take it away entirely.

Care should be taken that the rim of the water fountain is



UNRETOUCHED FROM LIFE 1916,
BRED AND OWNED BY C. N. MYERS, HANOVER, PA.

had to count in order to get the chicks in a warm place and settled down for the night. At the last moment it was discovered that the oil bowl of the brooder lamp was leaking and, being in a hurry, a glass bowled low lamp from the house was substituted for use in the brooder. About half an hour after retiring, we awoke to find the brooder in flames with a total loss of the chicks. If we had used common sense we would have distributed the chicks among the hens with chicks, since we had a large number of those at the time.

My method of raising chicks may not meet with the approval of all poultrymen, but after raising 90 percent or more of chicks hatched to maturity, as I usually do year after year,

not large enough so that the chicks may get in and drown. It is advisable to have no corners in the room where the chicks can huddle if the fire should happen to go out or an unexpected shower come up and the chicks become wet and chilled. We place one incl mesh netting across the corners, and believe that it has saved quite a number of chicks for us.

Only good wholesome food should be given chicks. We do not allow them quite enough to satisfy their appetites. A healthy chick should either be asleep or on the hustle. Many people seem to think that chicks must be fussed with, petted and cuddled all the time, but if heat, food and water are supplied them in a common sense way, the house and yards kept clean, and proper equipment used to keep them under control, the result will be successful.

A dairyman would not expect to accomplish much keeping cows in an old leaky shed which was about ready to fall in. Some people try to raise poultry under similar conditions and do not understand why they are not successful with poultry.

We have experimented in regard to the labor of raising chicks by the colony brooder system and also with hens. I find that I can take care of 500 chicks with a colony brooder in the same time required to care for 75 chicks with 5 hens and I believe that this will apply in most every case. All things considered, I believe that every farm woman who raises 100 chicks or more each season with hens could brood a flock of 500 with a colony brooder with the same amount of labor and the result would more than pay her for the equipment the first year. Of course a hen will perhaps raise three or four chicks without any attention on the part of the owner, but where the object is to produce chicks in any quantity with a minimum of labor the colony brooder is indispensable.

I believe that the colony brooder system is as far ahead of the hen in raising a large number of strong chicks, as the barrel churn run by gasoline engine is ahead of the old fashioned churn that is big at the bottom and little at the top, with a thing in the middle which goes flippy-flop.

Raise Chicks On the City Back Lot

Describing House and Runway Which May Be Made Any Size Desired. Second Prize Article American Poultry Journal Contest. *By Bernard H. Kirchbaum*

EVERY loyal and patriotic citizen should now be doing something for his country, or, putting it in a better way, should be doing all he can. There are those who think they can be patriotic by just waving a flag or singing the national anthem, but the call today is to do something that will actually help our country and our Allies to be victorious in this great war.

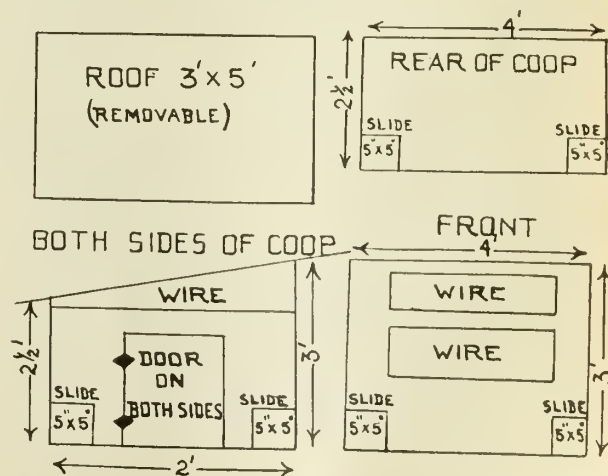
One way in which we can show patriotism is to raise chicks on the city back lot. Many city people, however, appear to have considerable prejudice against raising poultry, or, for that matter, allowing others to raise poultry in their neighborhood. This is a sentiment which should not exist today with the necessity for greatly increased food production and the present shortage of help. There are those also who consider work with poultry too dirty to soil their dainty hands. I have been raising poultry for the past seven years on a back lot and I consider it an interesting and pleasant work for man, woman or child. The work is not arduous and it gives one who is employed all day at other work a pleasant change, which takes his mind from his daily labors. It also affords him some outside exercise and fresh air. Work with poultry is not disagreeable, even to the most fastidious, for the poultry house and yard may be kept in a neat and inviting condition by devoting a very short time to the work each day.

The novice who attempts to raise chicks, for the first time this season, will do well to begin with day-old chicks. These may be purchased of reliable breeders and hatcheries in all parts of the country. It is advisable to purchase reasonably near to your own home, at least so the chicks will not have too long a journey, tho as a rule a day or two en route will not hurt them. But in buying, be sure you place your order with a dependable firm.

The back-lotter will not want to raise more than one variety of chicks, at least it is not advisable for him to do so. A uniform flock can be reared and cared for to better advantage than if one or more varieties of chicks are attempted, and when the culling is done later on, there is a better chance to have a nice little pen of your favorite variety to be kept for winter layers. The predictions are that poultry and eggs are going to be very scarce this coming fall and winter and it behooves every man who has a back yard to attempt to have a flock of poultry to help supply his own table with eggs. Some people object to late hatched chicks, but I have had better results with late hatched chicks than the earlier hatched ones. It does not begin to get reasonably warm here until May and the back-lotter, who cannot be with his chicks except before and after his day's work, can do better in chick rearing after the weather becomes settled and the sudden changes of early spring are over. Of course the chicks must be fed at frequent intervals while small, but those who are away all day can have other members of the family attend to feeding the chicks two or three times during the day. Later on when the chicks

are larger, they may be fed by means of hoppers and feeders during the day. Water should be supplied them at all times and during the summer it is best to change the water two or three times during the day. There should also be shade provided during the hottest weather. If there are no trees in the back lot, a few blackberry bushes will help out and there are many kinds of quickly grown shade. If provision has not been made along this line, stretch a piece of canvas or burlap across the end of the yard where the chicks may find relief from the hot summer sun. Try to grow a little green stuff if you have room and always save all outside leaves from any vegetables bought for the family, for the outside leaves of lettuce, cabbage, spinach and many other greens are greatly relished by the chicks. Keep a supply of charcoal and grit before them at all times and beef or fish scrap unless there are table scraps containing bits of meat, etc.

The house that I have been using has proved most satisfactory. I cannot let the little chicks run free because of cats, and because it spoils the lawn, and often gets you in wrong with the neighbors. I have, therefore, built a small house, which will house any number of chicks up to a hundred; while it will house twenty-five at three months of age, when they can be removed to the large house, and still keep them confined to a given space. In order that the young chicks can secure as much grass and insects as possible, I make use of a movable runway which can be moved eight times before moving the house. The house and run-way may be made to any size desired. The diagram explains the coop and run-way better than words.



A house and runway for use on city lot. The runway may be moved eight times before it becomes necessary to move the house, each moving secures a fresh grass run for the chicks.

From these diagrams it can be seen that there are eight slides. The run-way can thereby be placed in front of any one of these slides, each moving securing a new piece of ground for the chicks to run over, while allowing the former piece to become covered again with grass. By this method, I did not have one chick die last season and I credit this to the fact that their feeding was correct; that their run-way did not become dirty; that their coop was light, well ventilated, easily cleaned, and dry; that they always had a good piece of grass to feed on; and lastly, that conditions made them satisfied in rather close confinement. This coop also housed twenty-five chicks till they were nearly four months of age when I removed them to the hen house. By putting in a second floor, there was plenty of room for the twenty-five chicks. Because of the splendid success which I have had from the use of this coop and movable run-way, I would recommend anyone in the city, with a back lot, and with con-

ditions like mine to use it, or at least to try it.

After the coop question is settled, the rest is to a great extent governed by experience or can be gained from reading first-class poultry books and papers. The question of what to feed baby chicks is not at all difficult if you do not try some complicated and unnecessary method of feeding. I have had most success when I would feed at frequent intervals (about four times a day to baby chicks) commercial chick feed and rolled oats. I leave a dry mash before them all the time. When they get a little older, say about two or three weeks, carefully selected table scraps are very good. With the grass and insects and worms that they secure, this ration has proven entirely satisfactory.

Back-lot poultry raising, if it is undertaken in a simple and sensible manner, is profitable and interesting, while it is a splendid way to exhibit one's patriotism and loyalty to his country.

How Would You Answer This Letter?

Interesting Questions—With Replies by the Managing Editor.

Readers, who have had practical experience in poultry keeping as a means of earning a living, are invited to take part in the discussion and send their replies to these questions to Dr. Prince T. Woods, Managing Editor AMERICAN POULTRY JOURNAL, Silver Lake, Mass.

THE accompanying letter from a subscriber is unusual in its list of questions and also that the correspondent desires that a number of readers express their opinions on the subject in order that the answers may give various points of view. We have answered the questions herein, giving our frank opinion, based on many years practical experience and unusual opportunities for observation. Whether the reader differs or agrees with our viewpoint, we shall be glad to have him express his views on this interesting subject: Here is the letter:

Editor AMERICAN POULTRY JOURNAL:

A married couple in middle life—the man a city product; the woman brought up in the country, but now more or less of an invalid, may by force of circumstances be compelled to turn their energies into another channel in order to gain a livelihood.

Their thoughts have turned to the country and they are anxious to engage in something which would not entail a great outlay of money and where careful work and management would bring in an income sufficient to insure a modest living.

The man is not adapted physically nor by experience to take up the strenuous work of general farming, but the business of raising poultry and eggs has been suggested as offering the best solution of the problem, and in any matter affecting poultry we are told that we could not go to a better source for expert information and reliable guidance than the AMERICAN POULTRY JOURNAL.

Here are some of the questions which have occurred to us thus far:

1. What would you say as to the minimum amount of capital which it would be necessary to have in order to embark on a proposition of this kind in order to reasonably assure success and a modest living for two people?

2. How much ground—2, 3, 4 or 5 acres, or what would be required? We have been informed that practically all the profits are taken out of the poultry business unless one raises their own grain.

3. Is it better to get located near a large city on account of the larger market than it is to be 100 miles or more out in the country? The advantage in one way might offset the difference in cost of ground, etc.

4. What experience is necessary for the successful operation of such a business? Should not anyone with ordinary intelligence, some study, and hard work, be able to make a "go" of it?

CHICAGO READER.

Before taking up the questions by number, it will be well to call attention to the fact that at the present time veterans in commercial egg farming and market poultry growing, men with from fifteen to thirty years successful experience, are having difficulties in making "both ends meet" and to stay in business even with considerably reduced flocks. Many have

been obliged to quit altogether, or to seek other paying employment in order to carry their poultry business thru these strenuous war times and at the same time get a living. The government is advising against extensive poultry operations and is not, under present conditions, recommending that anyone take up commercial poultry farming as an exclusive business. When successful poultrymen with long experience find it difficult or impossible to get a fair and just living profit out of the business—where poultry must pay the living income for the producer and his family—what opportunity is there for a novice to embark in the business in hope of earning a living?

Commercial poultry farming for a livelihood is hard work and no business for an invalid or one who is physically broken down to engage in. Keeping a good sized family flock of fowls to supply eggs and poultry for the home table, or for fancy's sake, is a very different matter from earning a living with poultry. Work with a small family flock of fowls will prove interesting, entertaining and helpful for the invalid or for the physically unfit, but it takes a good, strong, husky individual to run a commercial egg farm or market poultry plant.

In normal times before the war, a good, strong, able-bodied man, with a hired helper part of the time in the busy season of chick rearing and crop growing, could take care of 2,000 head of laying hens, raise three or four thousand chickens and make a good living at it. He had to have a fair sized farm, grow fair crops for home use, keep a couple of cows, a pig or two, and a pair of good work horses. His working hours were always from sun-to-sunset and frequently longer—strenuous working days averaging 12 to 16 hours each. Men who have done such work and made a success of it, have, some of them, started on very small capital—quite a few we know had only the farm with a good sized mortgage on same and worked out by the day to get funds to live on and to get the farm started. They won out, but it took time, infinite patience and hard work. That was before the war. Today, in some of our best egg farming and market poultry growing districts, favorably located near the best of markets, many of these poultry farms have been forced out of business, others are "carrying on" at about 25 percent of normal capacity and hoping that more favorable conditions and the scarcity of poultry and eggs may enable them to make good a part of their losses. Some capable and worthy young men with a number of years of successful poultry experience, hard workers and thrifty, have been forced out of business or have had to mortgage their farms in order to pay their expense bills. So much for the introduction; now for the answers to the questions.

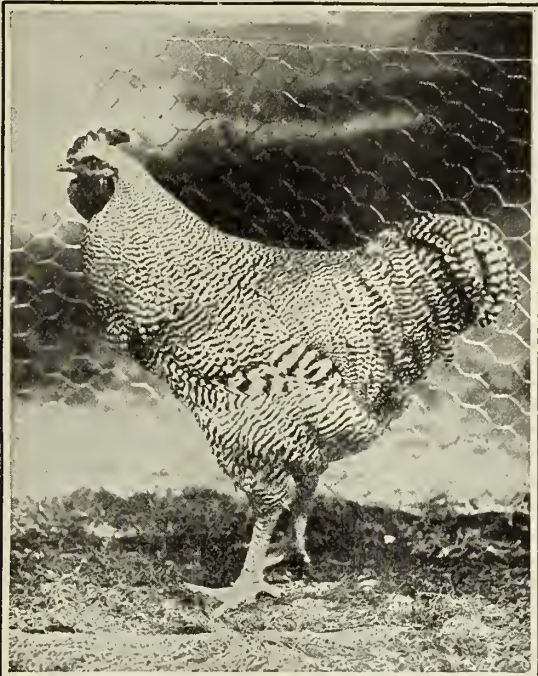
1. The minimum amount of capital required depends

wholly upon the man and his earning capacity—this, of course, in normal times and under normal conditions. Under favorable conditions poultry keeping is not a "get-rich-quick business" and one cannot expect any greater return for

For example, we know of a "one-man poultry farm" which keeps 2,000 head of fowls and grows 4,000 chickens annually. It takes 218 tons of grain and feed, or approximately 8,720 bushels per year to feed his flocks, and this would call for a good many acres in grain crops. The specialty poultry farmer has to be a pretty good general farmer as well, but we doubt the practicability of attempting to combine poultry farming and grain farming on so large a scale. It would undoubtedly be wiser and better to sell the grain and take the profit on it, rather than feed it out to poultry and other animals. The grain would be more valuable for human food. A very large percentage of the grain fed to poultry is of a quality unfit for human food, while the feeds are mill by-products.

3. As a rule a location convenient to a large city is preferable. Marketing the product is a sizeable job and one should be within convenient shipping distance by both express and parcel post. Each locality, even nearby large cities, presents a problem of its own in matter of shipping and marketing facilities. Two locations, each 30 miles from a big city and not over a dozen miles apart, may be wholly different as regards cost and convenience of getting produce to market. Cost of marketing the farm produce is seldom given sufficient consideration, it is a considerable item of expense.

4. The same amount of experience and executive ability which would be required to make a "go" of any business in which a like amount of capital and effort is invested. The amateur with push, pluck and ordinary intelligence, who will put study and work into his poultry keeping can make a "go" of poultry on a small scale. Operating a commercial poultry plant to earn a living at the business is a full-grown man's job and calls for executive ability and common sense of a high order. Do not run away with the notion that "making a living with poultry" is "easy money." It is not. Any man or woman who earns a living producing food works hard for every cent of income and earns a good deal more than is ever received.



UNRETOUCHED FROM LIFE 1916,
BRED AND OWNED BY C. N. MYERS, HANOVER, PA.

capital invested, and labor and other expenses incurred, than he would receive for like investment and operating expenses in other lines of productive work. For a family such as this married couple, one more or less an invalid and the other not adapted physically nor by experience to take up the strenuous work of general farming, the capital should be sufficient to own and stock the farm free and clear and pay living and operating expenses for a few years, the man and wife doing the work of the plant. It would depend largely on what is meant by a "modest living" and the size of the farm and scope of operations. If they could make the farm pay actual expenses plus a living for the first three to five years, we would consider it doing uncommonly well. The average city couple who attempt such poultry farming operations do not last over three years, when circumstances force them to again seek work paying a regular wage. Any farm worth having will cost around \$5,000. Fowls for laying and breeding stock, utility quality, are now worth from \$2.50 to \$5 each. Besides green food, vegetables, grit, shell, litter material, insecticides, disinfectants, housing, fencing, and miscellaneous equipment, the feed and grain supply per bird per year, will call for approximately 45 pounds of dry mash mixture and 45 pounds of grain, average.

2. For a man and wife having an independent income to live on and who simply wish to enjoy healthful country life, a few acres will be ample. For a commercial poultry plant we would not want less than 30 acres, and 70 to 100 acres would be better. Four hundred hens can be housed and yarded on one acre, but for practical poultry farming it is better to figure on not over 100 fowls to the acre of land devoted to poultry and to "rotate crops," keeping the land under cultivation and moving the fowls along to "new" ground every season or two.

The 70 to 100-acre farm will permit a "one-man poultry plant" of from 1,500 to 2,000 layers and breeders and the rearing of a few thousand chickens each season, combined with the growing of a part of the grain and all of the greens and vegetables fed. But one man is not "big enough" to run a poultry farm and grow all his feed at the same time, unless he has a very large farm and employs a good deal of help.



FIRST PRIZE COLUMBIAN WYANDOTTE COCK
MADISON SQ. GARDEN 1915-16 BRED & OWNED BY
WILBURTHA POULTRY FARM TRENTON JCT., N. J.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

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United States, Cuba, Mexico and United States Possessions (except Chicago).....	1 Year	3 Years
Canada	12 issues	36 issues
Foreign	\$0.60	\$1.00
Chicago .....	.85	1.57
	1.10	2.50
	.75	1.50

Chicago, Canadian and Foreign subscriptions require additional postage and therefore the slight difference in prices.

TRIAL SUBSCRIPTIONS — In order to acquaint prospective subscribers with American Poultry Journal, we will mail one copy a month for six consecutive months to any point in the United States, its possessions or to Cuba or Mexico for 25c. The trial subscription offer (6 months for 25c) is for new subscribers only and not subject to renewal for a period of less than one or three years.

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TRADE MARK REGISTERED,
No. 74,059.

Issued the first of each month.

Published by

American Poultry Journal Publishing Co.

JAS. W. BELL, President,
523 Plymouth Court, Chicago, Ill.

Editors.

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PRINCE T. WOODS.

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Advertising Representative,
E. G. ALDRICH.

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60,000 American Poultry Journals for
June, 1918.

State of Illinois, County of Cook, ss.:
Chas. S. Peterson, secretary of the Regan Printing House, Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 60,000 copies of the June, 1918, issue.

CHAS. S. PETERSON.

Subscribed and sworn to before me this
20th day of May, 1918.

(SEAL) ALICE A. SHEHAN
Notary Public.

"DO YOUR BIT"

It has been said that free and compulsory education has been the chief factor in advancing the interests of this nation, and that only so far as a whole people grow in knowledge can they occupy a place of importance among the nations of the earth. If, as all intelligent people will admit, education of the people is the best investment for future values, what would be the answer if our statesmen should now propose a tax upon every child in the public schools of this land to be paid to the government for the duration of the war? So far as the public schools are concerned, they are a heavy expense to every community, an expense somewhere in the neighborhood of \$150 or more per child, every year he attends public school. However, even in war times, we have not heard anyone make the suggestion that this expense be met by taxing the school children so much per head, because everyone knows that the future of a people depends upon this education of its youth. But now comes a tax on newspapers and magazines in the form of increased second-class postage and the application of the zone system which adds to the postage cost from fifty to nine hundred percent, which will put a large number of worthy and eminently educational periodicals out of business, and which will so greatly increase the cost of others that those who most need these publications will be denied them.

The claim has been made that the Post Office Department loses money handling second-class mail matter at the present rates, but no one has yet been able to show figures which prove this statement. While there may be branches of the Post Office Department which are not self-supporting, yet as a



whole the department, which, of course, is operated for the benefit of the people is more than paying its way at present rates. Last October, the Post Office Department turned over to the U. S. Treasury \$9,000,000, being the largest profit ever made in one year of its history.

We believe the proposed increase in second-class postage and the application of the zone system to newspapers and magazines would be as detrimental to our people, and the future of the country, as it would to tax children for attending the public schools, for taxing the press is penalizing self-education.

The newspaper and the magazine are the poor man's high school and college course — frequently both, and sometimes thru these mediums, he not only competes favorably with the college graduate but often eclipses him completely.

Who can say what the one cent newspaper has done to educate and inspire the youth of this land? The ten, fifteen and twenty-five cent magazines have meant more to countless worthy youths than the four-year college course in some of our best universities, to those who had the means to go to college but not the eagerness for learning of their more handicapped brethren. A few years ago a learned professor stated that we must not expect too much from college graduates because those who could afford to go to college seldom had a thirst for knowledge. Because of low cost and widely circulated publications, these boys and girls who yearn for knowledge in every branch of learning, have had the opportunity to add daily to their store of knowledge and thus greatly increase their usefulness. Many of them from simple and inexpensive newspaper and magazine reading have gained the inspiration which has led to research in the higher branches of

learning. What knowledge has the average person today above that which he acquires thru his newspaper and magazine reading? Most of the so-called knowledge which was instilled into us twenty or more years ago has now become a back number in the light of modern science and present world conditions. The newspaper and magazine are the only means at our command for continuing and correcting the preliminary education which is considered of priceless value to youth, and which is in reality only a foundation upon which the real education is to be built. The practical work of the individual, together with his after reading must do the rest.

Shall we then permit a vicious tax upon publications which will curtail the scope of one of the greatest and most far-reaching means of education in the nation today?

Write to your Senator and Congressman and protest against the increase in second-class postage rates and the application of the zone system to newspapers and magazines, which unless repealed goes into effect the first of next month.

Need of Reorganization

Our national poultry organization, the American Poultry Association, is certainly in a bad way. It has not kept up with the times and is greatly in need of reorganization along modern lines, as has been frequently pointed out.

The fact is, we are wrongly organized for an international association in so large a field. The life membership fee is too low and will not take care of the financial needs of the organization. A common sense system of an initiation fee combined with annual dues is needed. There should be reorganization from the outside of the circle toward the center; i. e., geographical sections, districts, or states should be organized on a co-operative basis, with an effort made to include all poultry keepers, the state or district organizations should elect representatives to form the central or national executive body controlling all organizations or federations of poultrymen. In other words, put the A. P. A. as an organization on the same business plan as other successful national or international organizations. It could be done if enough members are willing to work for it. If it is not done, our boasted great international poultry organization may go into the discard.

One member, a man who has for many years been a real worker in A. P. A. affairs, wrote us recently: "The A. P. A. has been dead for some time, but only a few know it. No one seems to have the heart to bury it. It is in the coffin and every once in a while Dick Richards says: 'Anyone wishing to view the remains may do so.'"

Things certainly do look that way, have looked that way most of the time the past two years. We would very much dislike to see the old American Poultry Association pass into innocuous desuetude. It was once a very useful association, but it did not keep up with the times, it fell into the hands of men who were neither fanciers nor poultry producers, it became the plaything and political machine of those who live off of poultrymen, rather than the representative and guardian of the interests of real poultry breeders. Now and then a real fancier and breeder has tried to "save the A. P. A.," but such efforts have not met with whole-hearted support.

Yet, with all its faults, the A. P. A. is our only really international poultry organization, or the remains of it. It owns and publishes the only authorized standard for all recognized (by the A. P. A.) varieties of fowls. Of course breed clubs have standards for "non-standard" varieties, but that is outside the question. If the A. P. A. stays dead, it is going to hurt the poultry business, it is going to injure the business of every breeder and fancier, it is going to be a very bad thing to give the opportunity to the opponents of Standardbred poultry to say: "I told you so." It will take years to put the Standardbred poultry business into the running again, unless the international organization is brought to life and made truly representative of the poultry industry; or unless some better organized association is substituted. It ought not to be very difficult to reorganize the A. P. A. and make a start in the right direction. Who will be the Moses to lead the way?

Eggs and Poultry Prices

The prices of poultry and eggs have not at any time during the past two years responded proportionately to the increasing cost of production, altho in our Central states the percentage of increase in selling price of eggs and fowls was much greater than in the commercial poultry growing sections of the Pacific coast and North Atlantic coast states.

With prevailing conditions, higher cost of grains, feeds, and labor—as well as everything the poultryman buys—eggs should be selling at 75 cents per dozen in flush season and \$1 per dozen in season of scarcity. Eggs in England climbed to 12 cents each and their use has been restricted to children, invalids and wounded. In America the demand for eggs fell off considerably when prices advanced sharply. We have never realized any general acceptance of the "dollar a dozen" eggs which were so freely predicted last year and the year before. The consumer seems to prefer to go without eggs rather than pay what they are really worth—a price which would give the grower a fair and just profit above production costs.

With the present tendency toward price fixing, whether direct by the Food Administration, or indirectly thru trade boards and the "gentlemen's agreement" method, it is not possible to say what may happen to eggs and poultry prices. We can be reasonably certain, however, that every effort will be made to maintain a fairly low price to the ultimate consumer.

There does not appear to be any effort to make it easier for the commercial poultryman and egg farmer to get a living. He is "up against it" and likely to remain there for the present, unless he can effect a powerful co-operative organization to protect his business interests. Apparently even the Poultry Division of the U. S. Bureau of Animal Industry has little sympathetic understanding or regard for the commercial poultryman's difficulties, since it has employed Edward Brown, British poultry expert, to go about the country proclaiming:

"I would rather have one hundred men keeping ten hens each, than one man keeping one thousand hens."

The fundamental principle involved seems to be that the consumer wants cheap eggs and "must have 'em." The commercial poultryman must get

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Order Now from these Prices

CHIX	EACH	DUX	EACH
R. I. Reds and Barred Rocks	.14	Mammoth Pekin	.30
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Thirty-two years of expert breeding along practical lines assures you that you will get the best from us. Our hatchery is right across the street from the express office, so your shipment does not have to wait for hours. They are loaded right on the train and reach you full of vim, vigor and vitality.

One Customer Made \$3 per Head Profit on Our Stock Last Year

You can do the same — but you must start now. Remember that all the money in the world wouldn't buy food next year if there was not enough raised to supply the demand. It is up to you to help. Order direct from this ad or send for circular.

W. R. CURTISS CO. RANSOMVILLE, N. Y.

a profit in order to stay in business, so cannot sell cheap eggs, but it is hoped that many small flock poultry keepers will not count the cost, will not reckon with labor and overhead charges, and may be expected to market their surplus eggs—if they have any—for whatever old price the eggs will bring, just to get rid of them. It is a nice principle, one that grows on you as you ponder on it—the same ages-old scheme of trying to get something for nothing. Our ancestors shortly after being driven out of Eden used to get their food for next to nothing; simply plucking it where it grew, stealing eggs from nests or killing game where they found it. Evidently we have inherited the fixed idea that we must get our food without cost, or as nearly without cost as possible, even if we have to reinstate serfdom and slavery to bring it about.

It is exceedingly difficult to determine the extent of the poultry shortage.

TO OUR READERS.

Our subscribers are our friends and we use every effort to protect them in every way. We believe that every advertisement in this issue is signed by trustworthy people, and to prove our faith we will make good to our subscribers any loss sustained by virtue of their having purchased fowls or goods from one of our display advertisers.

All we ask is, that in ordering the fowls or goods, you mention to the advertiser that you saw the ad in American Poultry Journal; also that the purchase be made during the month or months in which the ad is inserted, and in case of loss notify us of the fraudulent misrepresentation of the advertiser, giving us full particulars as soon as it occurs. In all cases in writing to advertisers say, "I saw your ad in American Poultry Journal."



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No. 4 Poultry House for 200 hens—5 units

No. 3 Poultry House for 50 hens

THE Hodgson way is the ideal way to house your poultry and pet stock. Every style of Hodgson house is designed with full knowledge of requirements. Poultry houses are made of red cedar, vermin-proofed. ALL houses are sanitary, storm-proof and well-ventilated. They will give you

better results because of their scientific construction. Hodgson houses are shipped in painted, fitted sections which can be quickly put together. Send for completely illustrated catalog.

E. F. HODGSON CO., Room 332, 116 Washington St., Boston, Mass.—6 E. 39th St., New York City

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America's Greatest Layers and Winners. Write for big free 24-page catalog.

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"Golden Rod" Buff Orpingtons win at the Great Illinois State Shows, 1917-18: 1, 2, 3 pen; 1, 2 cock; 1, 3 hen; 2 pullet; 4 cockerel. All these prize winners, and many more for sale at one half their winter value. Also a large flock of utility birds at bargain prices. Remember, we hold the champion record at National egg laying contest, and can supply you with trap-nested high record layers. R. M. Seward, R. 1, Lewistown, Ill.

While reports coming to us indicate that hatching and rearing this year thru-out the country does not exceed 25 to 30 percent of normal, this is a large country and no accurate statistics are available. Information secured before and during the Chicago conference, as well as visits and correspondence with poultrymen indicated a shortage of breeding and laying stock the past spring amounting to about 50 percent below normal. Unusually heavy selling of farm flocks was reported from all over the country. Rule 15, forbidding sale of fowls and pullets, was clapped on to prevent a feared wholesale slaughter of layers. This ban on selling hens worked more harm than anything else and was finally lifted ten days before time set for expiration of the "embargo"—was



"FLOSSMOOR" STRAIN

Columbian Wyandottes

Their winnings at the greatest shows are matters of modern history. First at Madison Square, '18, Greater Chicago and Chicago Coliseum, '17-'18

They are proof that my strain has everything desired in this beautiful breed, of which not the least is improved egg production. As my strain has been bred for years, their quality is inherited by the progeny.

$\frac{1}{2}$ ——— Eggs Half Price ——— $\frac{1}{2}$

from the best birds in the United States. My flock includes the entire flock of Columbian Wyandottes of the Wilburtha Farms, Trenton Junction, New Jersey. All their winners are in my yards.

SOME GRAND STOCK FOR SALE. Send for my free catalog and mating list giving full information.

J. W. GARVEY Box A THAYER, ILL.

actually lifted on the Pacific coast soon after it went into effect. Since then there have been published many requests to poultrymen not to sell their flocks. Apparently there has not yet been any heavy selling, for the market reports a

receipts are 30 percent more than for the same period last year. This was partly due to the early laying in the Northern sections. "I have advice that thru Missouri and Arkansas, and that country West, that the amount of eggs placed in incubators and under hens is nearly twice as large as last year. I feel quite sure, however, that east of Pitts-



Partial view of the hatchery buildings on the farm of the Co-operative Breeding and Hatching Co., Box 16, Tiro, Ohio.

scarcity of live fowls, "but in compliance with the request of the local Food Board *not to strain prices*, sales have generally been at 36 cents by the regular receivers, tho it has been rumored that some of the express receivers have obtained more money by making and charging up sales at 36 cents, but compelling the buyers to pay 3 to 5 cents per pound bonus to secure the goods," as a trade paper puts it. Hucksters hereabout have been paying 32 to as high as 40 cents a pound for prime quality live fowl and report difficulty in finding a supply.

A prominent Food Administration official is quoted as viewing the poultry situation in this wise as late as the middle of April, 1918:

"All of last fall and winter I heard nothing from the members of the American Poultry Association, but that the industry was doomed unless the government stepped in and either reduced the price of feed or increased the price of eggs, and all reported that we would see a great shortage of eggs this season. I have never agreed, for from my analysis, while the poultry specialist was selling his flock, I could see that farmers all over the Central West were increasing their flocks, and made the statement in January, that the receipts of eggs this year, in the four leading markets during March and April, would be as heavy, if not heavier, than for the corresponding period last year. It is a fact now that the

burgh and Buffalo there will be a reduction, but this reduction will be more than overcome by the great Central West."

This view does not coincide with our information, but we do not know of any person or any group of persons who have the actual facts, such as could only be secured thru a carefully-taken poultry census. Eastern storage warehouses are full of eggs. Altho a decrease in receipts of eggs in Eastern markets was looked for, the actual receipts have been heavier than during the same weeks last year. The demand for eggs has been fair, considerable quantities have been sold for home preserving and a good many have gone into storage on owner's account.

Prevailing wholesale prices for eggs the first of May in our large Eastern markets were *only about one cent per dozen higher than in 1917*. When one considers the higher cost of production, that fact does not carry much comfort for the producer nor much encouragement for increasing production. There

Myers' Barred Plymouth Rocks

Single Birds, Trios or Breeding Pens. Hatching Eggs. Write for catalog and mating list. C. N. MYERS - Box A - HANOVER, PA.

Lady Beautiful Strain Consistent winners for years at the big shows.

Why Do People Buy

Fishel's White Plymouth Rocks in preference to other fowls? These times people want eggs and meat, and want them at the lowest cost of production.

U. R. Fishel's White Plymouth Rocks

are conceded the most economical fowl, they consume less feed and produce more eggs and meat. They are the best possible in poultry. Winners at Six World's Fair Expositions, Twelve State Fair Expositions, Chicago, Cincinnati, Hagerstown, Md., Syracuse, N. Y., Etc., Etc.

SPECIAL BARGAINS NOW Eggs Half Price in selected breeders, utility fowls, in fact anything you want. Write me. **Baby Chicks**

FIRST PRIZE CHAMPION COLOR AND SHAPE HEN, CHICAGO, 1917

U. R. FISHEL

Box A

HOPE, INDIANA



U. R. FISHEL, HOPE, IND.

Smith's White Leghorns

6 firsts St. Louis, 1918—3 firsts Chicago Coliseum, 1917—4 firsts Greater Chicago, 1917. Catalog free. Eugene C. Smith, 317 Galena Blvd., Aurora, Ill.

Reduced Egg Prices

Are Now in Effect! Send for Circular!

STILES' COLORED Leg Bands

BEST IN QUALITY

Identify birds as far as you can distinguish colors. Made in Red, white, blue, green, black and yellow.

Mention variety when ordering.



SPECIAL BRAND—Single coil. Made of lighter material and have less lap than Economy brand. 25 for 25c; 50-50c; 100-85c; 250-\$2.00; 500-\$3.50, postpaid.



ECONOMY BRAND—Single coil of highest grade. 12 for 15c; 25-30c; 50-55c; 100-95c; 250 \$2.30; 500-\$4.50, postpaid.



ROYAL BRAND—Double coil. Best of all. 12 for 20c; 25-35c; 50-65c; 100-\$1.20. 250-\$2.75; 500-\$5.00, Postpaid.

Bands for Growing Birds—(two sizes, state age) 12 for 15c; 25-25c; 50-40c; 100-75c; 250-\$1.75; 500-\$3.25, postpaid.

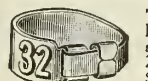


Baby Chick Bands—25-20c; 50-35c; 100-50c; 250-\$1.25; 500-\$2.25, postpaid.



THE VICTOR BAND Large printed numbers, bright clear colors—Red, white, blue, green, yellow. Made of celluloid and aluminum. Adjustable. 12 for 35c; 25-65c; 50-\$1.25; 100-\$2.25; 200-\$4.00. **Victor Sealed Band**—12 for 40c; 25-75c; 50-\$1.50; 100-\$2.75. Pliers 60 cents.

ALUMINUM BANDS



THE CAPITAL BAND Has raised figures. Adjustable. strong, smooth edges. 12-15c, 25-25c, 50-40c, 100-65c, 250-\$1.50, 500-\$2.75, 1000-\$5.25.



Poultry Cuts New designs, a complete line. Catalog Sent Free. **Poultry Punch**, Price 25 cents.

CHAS. L. STILES

Department 6 COLUMBUS, OHIO

WOOLERY FARM

American Bred-to-Lay White Orpingtons MATING LIST FREE WOOLERY FARM, Box A, Bloomington, Indiana

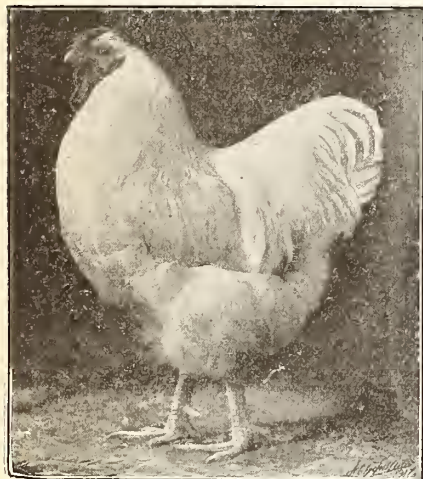
have been reports of heavy receipts of Chinese eggs, but we have not been able to verify same. Heavy shipments of California eggs have been received in New York market. Probably there is no way to determine how great a quantity of these eggs sold as "fresh" and quoted as "finest storage packings" have been held for some time in storage or when and where they may have been laid.

Anyone who could successfully predict what the poultry situation in these United States will be next fall and what

S.C. White Leghorns

Breeding, Laying and Exhibition Stock for sale. Meadow Lark Farm, Box 3, Route 3, Elgin, Illinois

REGALS FOR PROFIT



First Prize Cocker at Madison Square Garden, December, 1916

conditions and prices may be expected, would be a most remarkable prophet.

Apparently the Food Administration believes that the farms of the Central West and Southwest can be depended upon to supply all demands for storage packed eggs, and that it does not matter much what happens to the commercial poultryman and egg farmer.

The independent egg farmer and market poultryman, with the large productive plant shipping thousands of dozens of eggs and tons of prime poultry to market, has always been a thorn in the flesh of the storage and packing interests. It would seem to be a very convenient time to eliminate that sort of competition from the field. Of course the big packing interests only claim to

handle a very small percentage of the total foodstuffs consumed in the United States, but that does not mean that they would not like to control all of it.

There are no statistics to show how many eggs or how much poultry meat is annually produced and sold direct to retailers or consumers by independent poultry plants, nor have we any figures to show the production of small flocks which supply the home table of the owner and perhaps a surplus to neighbors. There can be no doubt about the very great quantity of poultry and eggs so produced. A shortage here would be greatly missed. It is here too—among the independent poultry producers—that price fixing hits hardest and unjust restraint of trade combined with increasing production costs tends to reduce production or drive the poultryman out of business altogether.

If there should not be any official interference with poultry and egg prices—direct or indirect—we would expect to see a reaction in the poultryman's favor by next fall. Under the existing conditions "the unexpected usually happens" and we can only wait and see.

June Chickens.

THE decision whether or not to hatch and grow June chickens this season will depend wholly upon individual and local circumstances and conditions.

No one should attempt to rear more chickens than he can feed and care for properly. A small flock of well grown chicks is far better than a large flock of chickens poorly fed and cared for. Good feeding grain is not plentiful and the indications are that it will, in some sections at least, be difficult to make the supply hold out until the new crop comes in. Conservation of grain and feeds is necessary, if our federal officials have informed us correctly. It is also necessary to grow an abundance of food as economically as possible.

Chickens are good food and can be quickly grown. If one has a good sized flock of early chickens, it may be well and wise to devote the feed and labor chiefly to the best development of that flock rather than to attempt hatching and rearing summer chicks. If the early flocks have proved a disappointment, or for any reason one did not get a supply of early chicks, it will be a good plan to either purchase a sufficient number of June chicks day old, or to hatch as many as may be required.

Summer chicks will do well if given good care. They need good range, clean sleeping quarters, freedom from vermin, shelter from sun and storm, wholesome food, and should not be too heavily fed. It takes a little more care and attention to make good with summer chickens, but in our Northern states they can be made to grow rapidly and to produce meat in record time. June hatched pullets of American varieties, if properly grown, should be ready to lay in December.

In the matter of June chicks, be

Regal White Wyandottes have stood the test. Whether you wish to go in for exhibition or for utility, the Regals will fill every requirement. This is the secret of their wonderful popularity. They are persistent layers, make rapid growth and are invincible in the show-room. Of all months in the year, May is the best month to hatch out the winners. The weather is warm, vegetation springing up, fertility running high and the chicks make the rapid growth so necessary to produce champions.

I Guarantee a Good Hatch

Mrs. Eli Fowler, of Rochelle, Ill., writes as follows: "From the setting of eggs purchased from you last season I raised the First Prize and Color Special Cockerel at the Greater Chicago Show, 1918. He is a beautiful bird and the judge did not hesitate long in giving him the blue ribbon."

Eggs from Exhibition Matings, \$5 per 15; \$15 per 50; \$27 per 100.

Special Exhibition Matings, \$10 per 15; \$18 per 30; \$25 per 45; \$50 per 100.

Dorcas Trapedsted Matings, \$5 per 15; \$15 per 50; \$27 per 100.

Utility Flock Matings, \$12 per 100.

Free—Send for 20-page Catalog and Mating List, also Summer Sale List, which will be out about May 20th.

JOHN S. MARTIN, Box 51, Port Dover, Canada

SANDY'S

from High Grade

EGGS

Prize Winning

SINGLE COMB WHITE

are what you want if you want the best. If you want the ideal birds for beauty, eggs and meat, here they are. Or if you already have them and wish to improve your flock, here is your chance.

My pens are headed by a son of White Prince, first young pen male at Chicago Coliseum, 1916; by a son of Prince Arthur, third young pen male Chicago Coliseum, 1916, assisted by other grand birds. Mated to hens of great size, good color and Orpington type and bone. I have also purchased Mr. T. P. Dougherty's famous Owen Farms best mating trappedsted stock, and can furnish eggs from them. The flock averaged 22 eggs each for the past six months.

EGGS {Prices delivered by } Mated Pens, \$3 per 15; \$5 per 30.
 {Parcel Post or Express } Utility Eggs, \$1.50 per 15; \$2 per 30; \$6 per 100.
 Fine stock for sale at reasonable prices.

R. E. SANDY Box 45 **STUARTS DRAFT, VA.**

ORPINGTONS

Summer Sale of Breeders

STOCK THE WAR-TIME BREED AT REDUCED PRICES

Only a great utility strain can meet the practical demands of war time. Our birds are noted for heavy egg production and for meat. Besides, they win in the Show Room—proved by 13 years' winnings.

SUNSWICK S. C. BUFF ORPINGTONS

have again and again been awarded highest prizes at the Garden and other leading Shows. We offer you an opportunity to stock your yards with great breeders at exceptionally low prices. Remember, this is the last month for Hatching Eggs and Baby Chicks. Send for Catalog—today.

SUNSWICK POULTRY FARM, Rufus Delafield, Owner, Box J, SO. PLAINFIELD, N. J.

ROSE COMB

TOMPKINS' RHODE ISLAND REDS

SINGLE COMB

Get in line for your winter winners by hatching eggs in June. Eggs from my Prize Matings now half price for the balance of the season. Selected eggs at reduced prices. If you have not already received my mating list drop me a card and it will be immediately mailed to you. Very attractive matings. Will have some high grade breeding stock for sale after June 25th and will be pleased to quote on them if you will tell me just what you want. Address:

HAROLD TOMPKINS - **Box A** - **CONCORD, MASSACHUSETTS**

guided by your needs. Grow as many chicks as you can make produce best results and enough to supply the home table and take care of any local demand you may have. Keep the chicks growing, keep them comfortable, well fed and contented. Do not throw away grain feeding it to a flock of ill-kept wasters. If you cannot grow the chicks as they should be grown, better not attempt growing any.

So far as exhibition stock goes, June chicks often develop into prize winners. The June and July pullet or cockerel, if well cared for, often is in the very best condition for winter showing. Where shade and shelter is abundant, the care and management good, food wholesome and sufficient, hot weather need not retard the growth of young chicks.

The Coming Shows.

It is time now to consider the coming poultry shows of next fall and winter. The poultry exhibition has been called the "life of the poultry breeder's business." So it is to a very considerable extent.

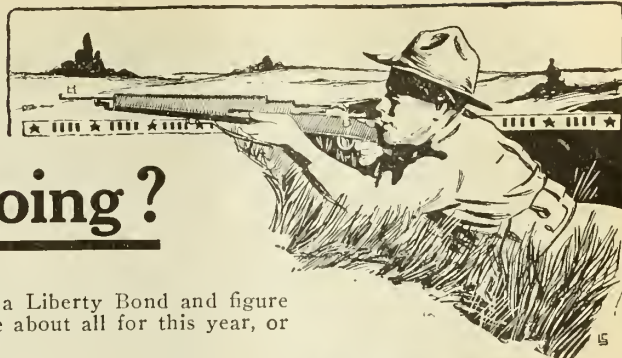
Last show season a good many poultry exhibitions lost money and many dates were cancelled. If we really intend to "save the Standardbred poultry business" we cannot afford to have the poultry shows go into the discard as "non-essential."

Preparation of the exhibition bird continues thruout the growing season. We know that there are many good fanciers who are doing their utmost to produce some uncommonly good specimens for the coming exhibitions. The poultry show gives a very necessary stimulus to the breeding and growing of poultry, it creates and keeps alive the interest in well-bred fowl. For the good of the poultry industry and to help stimulate increased production of poultry and eggs for food purposes, as well as the maintenance and continuance of our best strains of Standardbred varieties, effort should be made to make the coming shows more successful than ever before. Fanciers and breeders cannot afford to slow down—they need the shows and the shows need their support.

President E. E. Richards of the American Poultry Association has suggested that we advocate that the shows held during the coming 1918-1919 season do not pay any cash for prizes except such cash as may be donated for the purpose. Let the shows offer good ribbon awards and, of course, such special prizes as they can secure. Use the entry fee money to pay expenses. Make the entry fee as low as consistent with the success of the show. A lower entry fee for many shows would greatly increase the number of entries and thereby increase the revenue. With no cash prizes to be paid out, the entry fees and gate receipts should insure ample funds to meet all expenses, eliminate the chance of the show losing money and avoid the necessity of members of the association having to go down into their pockets to make up a deficit.

We are pleased to be able to indorse this suggestion of President Richards; we recommend it to the attention of all poultry show managers. With no cash prizes to pay—and the cash prizes are not as great a drawing card as many believe—an entry fee of, say, one-third to one-half the usual charge when cash prizes are given, should result in greatly

What are You doing?



Did you buy a Liberty Bond and figure that would be about all for this year, or

Are You a Real Patriot?

If you are, you didn't stop there. You are listening to the appeal of your Government. You are raising all the poultry you can produce. No other meat is so quickly grown, and every pound you produce means more meat available for our fighting men. Every chicken you raise is a shot at the Kaiser. A dozen fresh eggs is equal to two pounds of meat. How the boys in the hospitals will relish those fresh eggs next fall and winter, if you start now! But they won't be able to get them unless we all pull together. You must start now, and the best way is to buy

"Better Hatched" Baby Chicks

Here's the aeroplane that will bring up the ammunition.



BY UNCLE SAM OR THE EXPRESSMAN

SPECIAL PRICES FOR JUNE

June Chicks Delivered Charges Paid

	Number of Chicks			In lots of 600 chicks or over a discount of \$1.00 per hundred is allowed.
	25	Select Grade 50	100	
S. C. White Leghorns.....	\$4.00	\$ 7.50	\$14.00	For June shipments order only at the Select price — we will include some Exhibition quality in each order. June chicks will be sent by Parcel Post prepaid.
S. C. Brown Leghorns.....	4.00	7.50	14.00	
S. C. Buff Leghorns.....	4.00	7.50	14.00	
Barred Plymouth Rocks....	5.00	8.50	16.00	
White Plymouth Rocks.....	5.00	8.50	16.00	
S. C. R. I. Reds.....	5.00	8.50	16.00	
R. C. R. I. Reds.....	5.00	8.50	16.00	
S. C. Black Minorcas.....	6.00	10.00	18.00	
White Wyandottes.....	6.00	10.00	18.00	
S. C. White Orpingtons.....	6.00	10.00	18.00	
S. C. Buff Orpingtons.....	6.00	10.00	18.00	

THE CO-OPERATIVE BREEDING & HATCHING CO., Box 16, TIRO, O.
DR. W. H. GUISS, President HERBERT H. KNAPP, Secretary

MAMMOTH SUSSEX SALE

After June 1st, Moraine Farm will offer at reduced prices 100 of the breeders that comprised our matings of 1917-18. DON'T miss this chance to get the best at reduced prices. Write today for particulars and catalog describing our matings.

MORAIN FARM Poultry Department, R. R. 16 DAYTON, OHIO



Tarbox's Silver Wyandottes Red and Speckled Sussex

Reduction in prices of eggs and breeding stock. For the rest of the season we will make a 30% discount on all eggs. This with the low price that we have had on them (one half our usual price) gives you a chance to get eggs from choice stock at small cost. After July 1st, we will sell a part of our breeders from our pens at a 50% discount to make room for growing stock. Here is a chance to get some bargains in breeding stock. Write us your wants and get catalog.

A. & E. TARBOX Box A YORKVILLE, ILL.

Summer Sale of Wyandottes SILVER, GOLDEN AND WHITES

I offer many fine birds out of our matings at greatly reduced prices. None better. Many winners and also heavy layers. Eggs now \$2.50 and \$1.50 a setting. Large circular.
IRA C. KELLER, Brookside Farm Box 75, Prospect, Ohio

Have you read the Poultry Doctor?

IF NOT, you should have a copy of this valuable booklet. Thousands of poultry people are following the instructions of the *Poultry Doctor*. This booklet contains sixteen different formulas of remedies for diseases common among fowls. It is yours free of charge. Just drop a postal with name and address to

The Licene Company
1500 Pontiac Bldg. Chicago, Ill.

LOOK Raise Hares For Us

Belgian Hares, New Zealand Reds and Flemish Giants. We supply stock and pay \$2.00 to \$10.00 each when three months old. Big profits and easy to raise. Contract and instruction book 10 cents. None free.

JAS. W. HOUCK & CO. Box 20 TIFFIN, OHIO

PULLETS

S. C. White Leghorns

Barron strain. 8 weeks old, ready for \$1.25 delivery June 1st. Each

folly Cove farms Holland, Mich.

Baby Chicks—Stock

Poorman Strain
Reds and Barred Rocks
Tarbox Strain
Silver Laced Wyandottes

100 chicks, either variety, \$15; 50, \$7.75; 25, \$4. Six-weeks old chicks, 100, 65c each; 50, 70c each; less numbers, 75c each. Broilers, \$14 per 100; \$7.25 per 50; \$3.75 per 25. W. RHODES, DAKOTA, ILLINOIS

S. C. W. Leghorns

8-week-old pullets and yearling hens at bargain prices.

Chicks..... \$10 per 100

PYOTE POULTRY FARM

J. W. Mirfield, Prop. CORDOVA, ILL.

S. C. Black Minorcas

SUMMER REDUCTION SALE of surplus breeders. From the Chicago winners 1916-17-18. From June 1st to Sept. 1st at one-half the regular prices. ROYAL POULTRY FARM Box 500 OSSIAN, IND.

Light Brahmas Stock after

Dark Cornish October 1

JOHN BLANCHARD COLUMBUS, WIS.

Warnock's Brown Leghorns

Eggs at half price during June. \$2.50 per 13; farm flock \$5 per 100.

W. G. WARNOCK B-98 GENESEO, ILL.

WHITE ORPINGTONS

at Indianapolis, Indiana State Fair and the Chicago Coliseum
WILLIAM N. OTTO 4815 Central Ave. INDIANAPOLIS, IND.

Columbian Wyandottes

Some grand bargains in hens and cocks at sacrifice prices. H. A. D. LEGGETT & CO., 24 N. Nash Place, Burlington, Vermont.

"Winning" Buff Orpingtons

Eggs at reduced prices for balance of the season. Have all the chicks I need and eggs are hatching fine. Write. T. W. ROGERS, Box 4, Lamont, Ia.

increased entries and exhibits from many beginners and amateur fanciers. The more entries the greater the interest—and interest in Standardbred poultry should be encouraged by every legitimate means. Think this over, Mr. Show Manager. It may win success and renewed interest for your local show.

Keep the poultry shows alive; they are needed.

Baby Chicks by Parcel Post.

WHEN the International Baby Chick Association succeeded in prevailing upon the Post Office Department to give the shipment of baby chicks by parcel post a trial, there were many who expressed doubts concerning the outcome.

The parcel post shipment of baby chicks has been on trial now during the heaviest shipping months and it has made good. Express shipments, owing to congestion and breaking down of transportation systems, have not been as satisfactory as in times before the war. Express matter has been very slow in going thru, delays and holding up of shipments have been frequent and the handling of shipments has been even more careless than common, which seems wholly unnecessary.

We were talking recently with the owner of a big hatchery and he was

thoroughly disgusted with his express shipment experience, but enthusiastic in his praise of the parcel post as a carrier of baby chicks. He had had very few delays and almost no losses. The chicks had gone thru by mail safely and promptly. Several long distance shipments, one from Massachusetts to Michigan, had made the trip by parcel post in splendid condition without the loss of a chick.

The whole secret in successful parcel post shipment appears to be found in selection of strong chicks from the incubators, proper packing in suitable carrying boxes, delivery to the post office in time to make the earliest mail out that will make thru connections.

Several baby chick men have expressed themselves as highly pleased with parcel post shipments. Next season should see a greatly increased business of live chicks by post, direct from hatchery to the grower.

Parcel post has also proved a very desirable way to ship hatching eggs. Basket packed shipments make the journey in the best condition, with almost no breakage if properly packed. We have shipped a considerable number of eggs by parcel post this season, some quite long distances, and in each case safe arrival and a good hatch has been reported.

Dr. Woods' Notes and Comment

The man who by his labor gets
His bread, in independent state,
Who never begs, and seldom eats,
Himself can fix or change his fate.
—Matthew Prior.

Those who would eat next winter will do well to grow at least a part of the required food during the present growing season. Grow chickens, produce eggs, and raise vegetables that will keep thru the winter.

Keep the chickens growing. Allow as much range as is readily available. Provide shelters from sun and storm. Keep the growing chicks well fed, but do not feed so heavily that they lack keen appetites. Do not waste good grain. All good grain will be needed before another harvest. Keep fresh drinking water in clean fountains always before the chicks.

Watch your purchases of corn and corn meal. Do not stock up heavily at this season. 1917 corn was very soft and full of moisture, even kiln drying left a considerable amount of moisture in the grain. Corn will heat and spoil quickly at this season. The whole corn needs frequent turning over to prevent heating. It is best to buy or grind the corn meal in small quantities to be used up quickly. Do not buy or use lumpy and discolored corn meal.

Good green range is best for chicks. If they are confined in small bare runs, see that they are supplied with an abundance of green food. Sprouted oats are excellent food for growing chickens.

Hawks were never more numerous and troublesome than this season. The goshawks are the most pestiferous and are so clever that it is almost impossible to kill one of them. Foxes are also over-plentiful and in half a dozen years we have not had as much trouble with stray dogs. One dog broke thru the poultry yard fence and killed seven valuable breeding hens before he was discovered. We regret to say that he escaped, because no weapon was at hand to shoot him. We like dogs, but believe that dog owners should not be allowed to let them run at large to kill poultry and sheep, as well as do other serious damage.

Evidently Edward Brown, late of England and now of the U. S. Department of Agriculture, is going strong on the recommendation of back-yard poultry keeping in units of ten

hen flocks for every family. It is urged to let these birds range—presumably on the neighbors' property, and to "let the birds pick up the riches of the earth and also to thrive on the 'scraps' supplied by the 'most thrifty housekeepers.'" This is following the plan advocated overseas. We shall be interested to see how it works out over here. We heartily approve of back-lot flocks and more of them. But we doubt if the thrifty American housewife has many scraps to feed to poultry in these war times. We know that the scraps from our home kitchen would not keep three hens alive. As for letting back-lot flocks range to pick up a large part of their living, that may work among the cottagers of old England, but it would soon start a neighborhood riot in many sections of this country. On town or city lots, freedom given to foraging hens would be a great nuisance and cause much damage. In the country it is well enough to give the hens abundant range on the home farm, but to permit them to trespass on the neighbors' property—unless given permission—is liable to start a war between old friends and result in damage suits in the civil

Stop Hatching Weak Chicks

With Cheap Incubators

Remember, it is not how many you hatch that counts, but how many you raise. A Queen costs but little more, and the extra chicks that live and grow soon pay the difference.



Queen Incubators

Hatch Chicks That Live and Grow

Built of genuine California Redwood. Redwood does not absorb the odor from the hatching eggs. Cheaper woods, and pasteboard lining in iron and tin machines, retain the odors to weaken and kill the hatching chicks. The Queen is accurately regulated—taking care of temperature variation of 70 degrees without danger. Not cheap, but cheap in the long run. Catalog free. Queen Incubator Co. Lincoln, Nebr.

MORE EGGS—MORE MONEY
Feed **CRYS-CO.**
A purified shell grit (calcium) guaranteed 98% Pure Carbonate of Lime
Need no oyster shells or other grit, better results, less cost. Fine for little chicks. Highest endorsements. Write for booklet.
W. A. NEUNITS & CO., St. Louis, Mo.

courts. Hens, which are perfectly well behaved at home, are liable to become the worst sort of nuisances when they trespass in the neighbor's garden. Altho we live on a 70-acre farm we have more or less trouble from such source. Our hens when on range take to the woods and seldom trouble the planted crops, altho they are encouraged to follow the plow and harrow when the land is being prepared for planting, but the neighbors' hens seem to take special delight in coming a long distance from home just to scratch up our seed, or gobble up the young sprouts. By all means keep hens and have a fair sized family flock to supply the home table with eggs and poultry—but keep the hens and chickens at home on your own land. * * *

We thought we were fairly well fixed and safe on the farm labor question, but the call of high wages was too much for our helper who has been with us four years. He struck for a raise in pay for a dollar more per day, and when we could not meet it he left for a more attractive field than farm labor. So we are now our own chore boy, farm hand, and pretty much the whole thing so far as farm labor goes. We're glad that there are only two cows to milk and that the size of the flocks has been cut down to meet war conditions, as we do not expect to hire any regular farm helper while war prices for labor prevail and farm produce does not sell for enough to yield production costs. We can appreciate the Boston Herald editor when he says:

"Our New England farms may yet develop the man who can pitch, load and rake after the cart single handed, and milk two cows at once. Are we to learn by experience how caw dwellers got along before domesticating cows?"

We expect to keep the farm going to the best of our ability, but will confine our operations to producing food for the family, and none for sale unless there happens to be a surplus. * * *

Feeding the chicks this season is quite a problem. Good grain and feeds are scarce and the supply is irregular. We have been grinding a little old corn, feed wheat and oats into a coarse meal—about equal parts of each—and mixing this with an equal bulk of corn grits and cut oats. Chick size charcoal is added in proportion of about a pint to 14 quarts of the mixed chick food. Have also been using a commercial laying mash from the start. This contains both fish meal and fine ground beef scrap. The chicks are all with brood hens and are doing very well on three feeds a day, one of mash and two of the grain mixture. Now that it is possible to give them a good grass run they should come along rapidly. * * *

Unless market conditions change very materially by the time this season's cockerels reach 3 to 4 pounds weight, we do not expect to mature any more males than we need for breeding. The cockerels will be eaten as they reach good table size or will be boned, cooked and canned for winter use. The best pullets will, of course, be matured for egg production next fall and winter. * * *

Altho this section is one of the finest capon or soft roaster growing districts in the coun-

BUGBEAR

PATENTED

stops bugs

TRADE MARK REG.



Put Bugbear right there

Keeps Red Mites off the Roosts

Look at the circle to the right. See how the ring of BUGBEAR makes it impossible for red mites to crawl from the wall onto the roost?

One application of BUGBEAR will last all summer. It never dries up or grows hard. Kills every mite—every louse—every disease germ that it touches. Harmless to poultry and stock. BUGBEAR keeps destructive crawling insects out of trees. A ring of BUGBEAR on boards around your garden will keep out everything that can't fly.

SEND FOR SAMPLE

Sold by poultry and garden supply dealers everywhere. If no dealer near you, mail the coupon and 25c for liberal sample can—enough to protect three hen roosts all summer.

Prices: 1-lb. can, 45c; 5-lb. pail, \$2

THE REILLY COMPANY, Indianapolis
Plants: Indianapolis, Minneapolis, Seattle, Mobile

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"Your instruments proved to be all you claimed and I consider myself very fortunate to have secured them. At first I was skeptical, for all other makes are claimed to possess similar virtues, which can only be brought out by a few, with much skill and practice. Your tools and instructions put an amateur on a par with an expert."

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YOUNG'S STRAIN

Single Comb White Leghorns

I HAVE NO OTHER BREEDS

They have won first prizes in every state in the Union and in every country in North and South America. This strain is acknowledged throughout the world as being the Standard for all the Leghorns and the leaders of heavy layers.

EGGS HALF PRICE FROM NOW UNTIL AUG. 1

MATING LIST DESCRIBING 65 PENS AND PRICE OF EGGS FREE

D. W. YOUNG Box E-12 MONROE, N. Y.

1889



PARKS 200 EGG STRAIN
BRED-TO-LAY
BARRED PLYMOUTH ROCKS

1918

PARKS' BRED-TO-LAY AND-DO-LAY STRAIN Barred Plymouth Rocks

When you have confined yourself to one line of endeavor for about 30 years, in fact spent the working days of your life at it, you generally know something about it, don't you? That is what I have done with my bred-to-lay Barred Rocks, and the records of exhibition shows, egg shows and laying contests prove that I have achieved success.


I am now coming to the end of another successful season, during the balance of which I offer

Eggs, Chicks and Choice Breeders AT REDUCED PRICES

No matter what you want in this line, Parks can give it to you. A slacker hen these days is one who doesn't produce a profitable number of eggs over her keep. It is a crime to keep one. You are practicing "Safety First" by buying my products. Read what J. R. Hogan, of Saranac, N. Y., says: "I am sending check for chicks. I must have Parks' strain. I have finished experimenting with strains with claims as high as 292 eggs which have not produced the goods. I've come back to the fireside, never more to roam." And E. C. Siddall, King Edward, Can., writes: "I ordered 50 eggs in June; kept a dozen nice pullets from them which began laying at six months and laid six and seven eggs a day when thermometer was 10 and 15 below zero."

Copyrighted catalog tells all about their breeding, laying contest winnings and customers sayings since 1889. With general utility comments and gossip. It's a dime.

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DON'T KILL

the hens that lay the eggs—kill the loafers. The Potter System is a simple, certain method of picking the "layers" from the loafers or diseased hens. It is the greatest discovery of the century in the poultry world. Used and endorsed by over 50,000 satisfied poultry keepers. Saves food money and makes it possible to build up a flock of profitable egg layers. Keep less hens and get more eggs. Anyone can learn it in a few minutes and pick layers with absolute certainty.

One poultryman writes: "I had over 700 hens and after picking out the layers I had only 200, and am getting just as many eggs." Another says: "It pays to know the Potter System if you have only a dozen fowls." Ask for circular, which will be sent to you free.

Used and endorsed by over 50,000 satisfied poultry keepers. Saves food money and makes it possible to build up a flock of profitable egg layers. Keep less hens and get more eggs. Anyone can learn it in a few minutes and pick layers with absolute certainty.

One poultryman writes: "I had over 700 hens and after picking out the layers I had only 200, and am getting just as many eggs." Another says: "It pays to know the Potter System if you have only a dozen fowls." Ask for circular, which will be sent to you free.

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Don't Build

You can buy the famous Potter Portable Houses, Coops and Roosting and Nesting Equipment cheaper than you can build. Easy to set up and take down. Complete Hennerly Outfits (roosts, nests, etc.) \$3 up. Used over 10 years by thousands of successful poultry keepers. Makes it easy to start right. Get the best and save money. Send 4 stamps for 100-page book.

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WHITE WYANDOTTES



Eggs

15 for \$1.50
30 for \$3.00
50 for \$5.00
100 for \$8.00

Stock for sale. Write your wants.

MILLS CREEK POULTRY FARM, Eagleville, Ohio
W. J. FORREST, Prop.



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FOR BREEDERS OF

S. C. W. Leghorns and Barred Rocks


Would you like to have a fine catalog of your own, handsomely illustrated in colors, but find the cost too much? If so, send for a sample and prices of my special catalog in colors, mentioning which of above breeds you raise. Prices, \$7 up. Thos. Nash, Peterson Bldg., Chicago, Ill.

Dr. Hess Poultry PAN-A-CE-A

Makes poultry healthy and makes hens lay. See your poultry supply dealer.

Dr. Hess & Clark, Ashland, Ohio

Riley's White Wyandottes



Bargains in breeding stock for quick delivery. Need room for growing youngsters. May 20th to July 15th, eggs half price. Write me your wants and for catalog.

H. J. RILEY, Box A, Bryan, O.

W. F. B. Spanish Eggs

\$2.50 per setting for balance of season.

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Mention the American Poultry Journal when writing to advertisers.

try, there is almost nothing doing in this line this season. Capons brought prices of from 35 cents to 45 cents per pound alive at the growers door, but some of the most successful growers report that this price did not yield cost of production and a balance sufficient to pay the grower's board. It takes about 64 pounds of grain and feed to produce an 8-pound capon. These highly finished, specially fattened birds have always been in great demand, and in normal times have usually brought about 50 cents per pound dressed at retail. Such soft roasters and capons were sold to wealthy families, clubs, fashionable hotels and like trade. This sort of trade is today practicing economy and thrift as if their very lives depended on it, although most of them are making big profits, greater than ever before, out of war conditions. The real economy in shutting down on the consumption of fancy new-laid eggs, high quality dressed poultry and other highly finished meat animals, does not appear when viewed thru the producer's eyes. It would seem that success in war is dependent upon success in the business of food production and that it would be wise to stimulate increased consumption of quality foods by those who can afford them. Certainly business must be kept going if we are to have funds to pay war time living expenses, meet our obligations, pay war taxes, buy bonds, and contribute our bit to the Red Cross and other necessary war funds. Crushing and smashing many lines of production, particularly the production of valuable foods, does not appear like real economy in a world that is crying for food. Of course it may be argued that the specialty farm product is a "luxury," but certainly it is a very useful and wholesome luxury and those whose earnings are large could well afford to buy this specially grown food, help the producers to get a living, and leave more of the cheaper foodstuffs for those who cannot afford to buy the higher priced "luxuries." However, it is the man in the limousine who makes the loud complaints about 14-cent milk and eggs at 70 cents per dozen—the man in overalls buys the best he can afford and seldom kicks about prices. The man who really works for a living is usually willing that other workers should get fair pay.

There is much talk about making each community self-supporting. Particularly in New England we are urged to do our utmost to produce more food and to endeavor to make ourselves independent of supplies from outside sources. In spite of this very little has been done in a practical way to encourage New England farmers and poultrymen. The poultrymen have been particularly hard hit. From his attitude at Chicago conference and more recent statements, it would seem that Mr. Priebe of the Food Administration believes that the Central West can supply all the eggs and poultry needed in the East, as well as supply the balance of the country's needs, and that it will not matter if the Eastern commercial poultryman is forced out of business. Transportation conditions considered and the heavy losses during distance shipments, we fail to see the economy of letting Eastern egg farms and market poultry plants go to smash. It looks like needless waste and very unwise policy to us. These specialty plants in New England, New York, New Jersey, Pennsylvania, Delaware, and Maryland, have furnished millions of dozens of eggs and thousands of tons of poultry meat. One carload of meat or eggs grown in the East ought to be worth to the consuming public as much as two carloads produced in the Central West and which must be shipped here when every car is needed for other purposes.

Of course the Central West and the great Southwest may be able to supply us with sufficient eggs and poultry. It may be true that less car space will be required to ship the finished product East than to supply grain and feeds, but the finished product is perishable and requires special cars and refrigeration. The loss from breakage, spoilage and delays in shipments of eggs and meat are considerable. In normal times the loss of eggs from breakage and spoilage during transportation amounts to over \$45,000,000 per year. This would be increased under war transportation conditions. Already much spoiled and stale meat is coming into Eastern markets and the summer has not begun.

The smashing and elimination of the independent Eastern poultryman would, of course, do away with a great deal of competition now experienced by the big packing interests and would give a free field to the storage packed product. Even so, we expect Easterners to wake up to what such control of the eggs and poultry market may mean to them. Western grown poultry and eggs may be cheaper as long as there is sufficient competition from Eastern grown, nearby, poultry produce, but what will happen if the independent poultryman in the East is crowded out of business? We believe that every effort should be made to

Make your chicks grow rapidly; keep them healthy and strong by feeding

"Cornell Brand" Buttermilk Growing Feed

The wonderful health and growth promoting properties of BUTTERMILK can now be had in the proper proportions by feeding "Cornell Brand" Buttermilk Growing Feed. It lessens mortality, prevents white diarrhoea and other diseases and makes chicks grow and increase in weight rapidly.

Write for price list and circular

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BLAMBERG BROTHERS, Inc.
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PRESERVE EGGS

WITH Western Water Glass

and get 60c for eggs that are now worth but 25c. One gallon (Price \$1.00) is sufficient for sixty dozen eggs. Use U. S. Government formula. Also put up in two gallon cans at \$1.50 and five gallon cans at \$3.00. Western Water Glass may be used for many other useful purposes. Put up and for sale by

WESTERN BOX AND BASKET CO. OMAHA, NEB.

S. C. W. Orpingtons

First prize winners at Boston and other leading shows

SHOW AND UTILITY STOCK

Eggs for Hatching Send for Mating List

JOHN R. JOHNSON
BOX 13 SO. WINDHAM, MAINE

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The Best

Summer Prices. New Catalog.

M. S. Barker, R. F. D. No. 1, Thorntown, Ind.

White Orpingtons

bred from Madison Square Winners

Eggs Quality "A" \$2.50 per 15
"B" \$1.50 per 15

Also have a number of good breeders at bargains. Write me your wants. Mating list free.

HARRY DICKEN, Manville, Ill.

S. C. Buff Orpingtons

Winners at Greater Chicago, Ill. State, Peoria, Quincy, Monmouth, etc.

Eggs Half Price

Special Sale on Breeders. If you want quality at ridiculously low prices, write me.

D. L. WARNER LITTLE YORK, ILL.

Arlington Strain S. C. Reds

Eggs and stock for sale. Prize-winning quality. For catalogue and prices address

John E. Mack, - Box B, Arlington, Dutchess Co., N. Y.

Brookside White Wyandottes

American Laying Contest Winners. Eggs half price; hens and pullets at bargain prices.

Brookside Farm, G. W. Scholtman, Prop., Montrose, Ill.

encourage the egg farms and market poultry plants of the North Atlantic states. More food should be grown in the East and the public should give its support to the nearby product by paying a higher price for it.

In normal times New England does not produce more than 25 percent of the food consumed by her population. With the greatly increased population, more soldiers, more sailors, ship builders, and workers of all kinds, much more food will be needed, and, even if Eastern farms do their utmost this season, we are not likely to produce much more than the 25 percent of food required. Every branch of food production here should receive encouragement and support. More grain will be grown here this season, more sheep, more hogs, and more cattle probably, but poultry production is very far below normal. High cost of feeds, scarcity and high cost of labor, and comparatively low selling price of the produce all contribute to limit Eastern production. Even under the most favorable conditions it would be difficult to bring about greatly increased production—since old farms cannot be made over in one season. Here in the East we are going to be obliged to import from the West, or somewhere else, fully 75 percent of what we need to eat during the coming twelve months. We are going to have exceedingly congested transportation owing to greatly increased shipments of food and supplies into this section to be loaded on ships and sent overseas. The sooner we wake up to the situation the better. No one looks for famine conditions thruout the United States, there will be an abundance of food in parts of the great food producing section of the country, but the East may easily feel the "belly pinch" by next winter unless we do our utmost now to prevent it. Plenty of food 500 to 1,000 miles away will not help the man who cannot get it and who is confronted with a local shortage. Everybody with a bit of land should do what he can to produce food to supply the family. A family flock of hens will help. Those who cannot keep hens should contract with nearby commercial poultrymen for a regular supply.

Potatoes are so cheap and plentiful this spring that they are being freely fed to poultry. The grower cannot get a price for his potatoes that will cover cost of production. This is quite a difference from last season when potatoes were selling at from \$3.75 to \$4 per bushel and hard to get at the price.

New Southern potatoes are coming on the market. The city commission man will not pay enough for old potatoes to pay for hauling and shipping them, yet the city consumer is paying at the rate of about \$1.50 per bushel. Also the small country stores are getting their supplies of potatoes for their retail trade from city commission dealers, having them shipped back into the country rather than buy of local producers who have their cellars full. "Coals to Newcastle" seems to be the regular way of doing business in food distribution.

Potatoes are good food for poultry young and old. We boil them and then mash them up in the water they were boiled in. This is thickened into a stiff mash with either middlings or a good mash mixture. The layers will stand four or five good feeds a week of this potato mash and it helps to cut down the feed bills. Potatoes are also fed to the cows several times a week. In some sections potato evaporating plants have been established and we need more of them. The United States probably wastes more good food than it consumes, chiefly because of poor distribution and the fact that the grower does not get a square deal and a fair price.

With us this season fertility has been excellent and we have had fine hatches. We have sold some hens with broods of chicks and for ourselves are rearing fair sized broods with less than a dozen mother hens. It is the first season in many years that the incubators and brooders have been idle on our farm. We find many of our friends doing the same thing—rearing a few broods to supply the home and to keep up the breeding stock. Labor and feed conditions are such with us that it is not good judgment to undertake much work. We cannot hire labor at a price we can afford to pay. If one does get a man, he is likely to leave suddenly on the first opportunity to get more pay and shorter hours. Grain and feed continues high and may go higher. Shortages are frequent and supplies uncertain. There have been periods of what amount to feed famine, and may be others before the new crop. The selling price of the produce is altogether too low in proportion to the cost of production. Under such conditions, unless a man has abundant capital and can stand heavy losses, it is most unwise to go into production heavily this season.

It is not "a patriotic duty" to go broke or bankrupt. Financial loss to the individual producer is an economic loss to the nation, and it is the patriotic duty of every citizen, as well

Here You Are!





Eight-weeks
old S. C. W.
Leghorn
\$ 1.25 PULLETS
July 1st Delivery
These birds are
bred from trap-
nested layers and winners with
egg records of 200-
249.

**Eggs
Chicks
Breeders**

Sunyside Birds Are Best

I have spent the best part of a lifetime in developing my flocks to their present high standard by careful pedigreeing and trapnesting, but the results have amply repaid me. My large flocks of high record birds enable me to give you more for your money than you can get anywhere else. I breed

**Brown and White Leghorns, White Wyandottes
Barred and White Rocks, Reds and Orpingtons**

Reduced Prices for June (on White Leghorns) 180-200-egg chicks, per 100, \$25.00
Barred Rocks, Reds / 210-248-egg chicks, per 100, \$30.00 **Eggs Per 100 \$12.00**

Special sale of yearling breeders. Order direct from this ad and save time, or send for catalog.

SUNYSIDE POULTRY FARM. R. C. Blodgett, Prop. Box 1002, BRISTOL, VT.



**Our Fresh Air Method
of Incubation**

is partly responsible for the extraordinary vitality of our chicks. Our catalog explains about it.

Guaranteed Extra Strong DAY-OLD CHICKS

LARGE CAPACITY QUICK SHIPMENT

Bred from vigorous, bred-to-lay utility stock. Nearly everyone recognizes that it is a patriotic duty to raise everything possible in the way of foodstuffs. For most people poultry is the easiest and most economically produced. The best way to raise poultry is to buy Baby Chicks. The best Baby Chicks to buy are "Elyria" chicks.

We can ship by Parcel Post.

You should see our chicks to appreciate their extra strong vitality together with quality markings. You will make no mistake when ordering from us as we guarantee satisfaction.

*Send for our free descriptive catalogue and prices
without delay as orders are coming fast.*

THE ELYRIA HATCHERY CO., Box A, ELYRIA, OHIO

Silver Penciled Plymouth Rocks Buff, White and Barred Rocks

Winners at Chicago, New York, Boston, St. Louis and Illinois State Fairs
EGGS FROM THE FINEST PENS IN AMERICA, \$5.00 PER SETTING. Cat. Free

PETER C. JUNGELS LOCKPORT, ILLINOIS

Halbach's White Plymouth Rocks

"The Proven Leaders"

Eggs from our own Champion Chicago Winners for sale now at one-half price, \$6.00 per 15, \$11 per 30. Send for our free Mating List describing these grand birds. Look it over carefully and send in your order at once. Also splendid Baby Chix for sale. Large Catalog 20 cents.

H. W. HALBACH & SONS R. 1 WATERFORD, WISCONSIN

**My \$5 and \$10 Eggs
For \$3 per 15** After May 7. From all pens as they run.
Middlemarch Champion **Buff Orpingtons**
Jessie F. Gordon Box 535 Spring Valley, Minn.

Baby Chicks



SEE those bright little fellows—as lively as crickets. Blood will tell. They will go out into the world and make their owners happy by shelling out the eggs next winter. Maybe there are a few cockerels there that are going to furnish some savory fries. Um-m-m—I can smell 'em now! We receive hundreds of testimonials from our customers stating how well pleased they are with the fine quality and laying ability of the birds they raised from our chicks.

Special Prices for June

The season is coming to a close, so we are offering very attractive prices for June, which will enable you to start a fine flock at very small expense. Be sure to send at once for catalog and special June prices.

We Can Ship by Parcel Post

right to your door if you live in town, or to your postoffice if you are on a R. F. D. Route. They are from the breeds that long experience has proven best—18 varieties.

We know how to produce the strongest chicks at most reasonable prices.

Write at once for Catalog and Special June prices.

M. UHL & CO. Box A NEW WASHINGTON, OHIO



1st Buff Orpington Hen
Indianapolis, 1917

IF WE ARE GOING TO BE PATRIOTIC Why Not Start Something?

I have 50 Buff Orpington females as good as the one in this ad. now in my breeding pens. They are on big runs with plenty of blue grass and fish worms. They are laying eggs that will hatch, and for 60 days I will make you a war time price on eggs for hatching. 30 Eggs, \$6; 100 Eggs,

\$18. If you want to start now with the best breed that ever wore feathers, here is your chance. This is just about 1/3 the value of eggs and remember, they are from the Indianapolis winners. Now is your chance, order from this ad. and do it today.

THEO. HEWES 2051 Hillside Avenue INDIANAPOLIS, IND.



Imperial Strain White Houdans

Stock Chicks Eggs

from Chicago Coliseum and Madison Square Garden Winners, Won at Madison Square Garden Show, 1917-18: 1st and 3rd Cock, 2nd, 3rd, 4th and 5th Hen, 1st and 2nd Cockerel, 1st, 2nd and 3rd Pullet and 1st Pen.

Imperial Poultry Farm R. F. D. 1 Elizabeth, N. J.

Pure bred **BARRON S.C. Wh. Leghorns** EGGS and CHICKS from 282 egg stock

EGGS, \$1.50 per 15; \$7.50 per 100. CHICKS, \$15.00 per 100

Every non-fertile egg and damaged chick replaced free. Send us your order now to insure delivery on the date you wish them. No deposit required.

Coleman Miles Egg Farm, Importers and Breeders of Tom Barron's Pedigreed Leghorns. Mt. Carroll, Ill.

You Should Send 25c for Our New Poultry Account Book.

as good business sense, to so conduct his business that he does not become financially embarrassed. There have been the same old promises of good markets and profitable prices and "consideration for the producer" at the beginning of this growing season as we had last year. Under normal conditions we would look for reasonably profitable prices next fall, but conditions are far from normal. Supply and demand no longer govern the market. Those who put whole-hearted effort into increasing production last season, were, most of them, badly stung in a market where prices were against the producer and below production costs. "The burnt child dreads the fire." "A man may be stung once and not be to blame, but if he is stung twice by the same game, it is his own fault." These quotations are heard very frequently and on all sides. Food is needed. Efficient food producers are needed. But the promised "fair and just profits" are also needed to encourage production. Every man who goes broke or who loses heavily in any branch of food production, hurts the business of producing food and makes our food just that much more difficult to secure. We believe that better times are coming, that conditions will mend, but we fear that the consuming public has a bitter lesson to learn first.

A number of poultry keepers have reported chicks blind from gummy eyelids. We do not believe that this is anything very serious. Such cases as we have seen seem to be due to irritation from dust or a mild contagious form of conjunctivitis. Most of them yield to simply opening the gummy lids. Some few cases may call for washing the eyes with a solution of boric acid, half a teaspoonful, in eight ounces of water. Water should be boiled first and then used luke warm.

Lice and mites are breeding rapidly now. Small chicks with hens should be treated by using a drop of oil on head, under throat, under wings and about the vent. The mother hen may be treated by dusting with lice powder or flowers of sulphur. Mercurial ointment (blue butter) one part with two parts of petrolatum, thoroly mixed, may be used to grease the hen about the head, under the wings and about the vent. Use only a very little and do not rub it in. A bit of ointment about the size of an ordinary garden pea is sufficient for the application to one hen.

To get rid of mites about the roosts and in cracks and crevices of coops and nest boxes, there is nothing better than a pound of naphthalene (crude flakes) dissolved in kerosene. Apply it with a sprayer or paint brush. Let roosts and coops dry before the birds use them, kerosene will blister the bird's skin if plumage becomes wet with it.

Keep a careful cost account with your poultry this season. Count all costs. Keep a record of cost of all feed and supplies, the value of your labor (whether paid or not), losses from mortality or from any cause, depreciation on buildings and fences, cost of repairs, cost of water supply, interest on total investment and capital used in business, cost of marketing the produce, taxes or rental in its due proportion. In short, keep track of all expenses and learn just what your poultry and eggs cost to produce. Keep an account of all eggs and poultry sold at actual prices received, credit for home supplies at wholesale prices for marketable produce, for unmarketable produce make a proportionately lower figure. Do not estimate receipts and do not figure anything you produce as worth more than you could sell it for in the open market. We would like to have a report of how your accounts balance at the end of the year.

We have had three consecutive wet seasons in this part of the country, and everything now points to a dry season following the severe winter. We seldom go more than three growing seasons without experiencing a severe drouth. When we get a drouth here it burns everything up. At present writing there is every indication of drouth, the grass is coming on very slowly, we had heavy rains in April before the frost was all out of the ground, but only threatening clouds and very light showers since. Unless we get rain soon there will be a very light June hay crop and perhaps none at all in many sections. We would feel a lot more comfortable if we could get our barn filled with hay, but hay and fodder here is now scarce and high, altho overplentiful last summer. Transportation has been in such bad shape that the usual shipments of hay have not come to us and the local supplies have been pretty well used up.

Pure Bred Day-Old Chix

Reds, Rocks, Wyandottes, Orpingtons, Anconas and Leghorns. Reduced prices. Write for catalog. WOLF HATCHING & BREEDING CO., Dept. B, Gibsonburg, O.

Ripley's 3-in-1 Portable Sprayer, White-washer and Disinfectant Machine
Cog gear handle, brass cylinder and valves. Satisfaction guaranteed. The best sprayer made for spraying trees, vines, plants, or whitewashing buildings, disinfecting, etc.



Write for catalog of sprayers and poultry supplies.
RIPPLEY MFG. CO. Box A GRAFTON, ILL.

For Potato Bugs And Blight use

SULFOCIDE and CAL-ARSENATE

—a new combination which bids fair to replace the old Lime Sulphur-Arsenate of Lead and Bordeaux-Lead mixtures, in both orchard and garden. It is more powerful and much less expensive. 1 gallon and 4 1/2 lbs. makes 150 gallons of spray.

Send for circular

B. G. PRATT CO., Mfg. Chemists
50 Church St. Dept. 47 New York



MASON'S MOVABLE POULTRY YARDS

All Steel. Comes Complete—Fence, Posts, Gate—Everything ready to put in place. Easy to put up and take down. Any size wanted. **SOLD ON A SIXTY DAY'S FREE TRIAL.** The prettiest and most durable yard you can buy. Send for Catalog and Low, Direct Factory Prices. **MASON POULTRY FENCE CO., Box 46 LEESBURG, O.**

FREE
New Poultry & Field Fence Book, 150 Styles
Direct From Factory Prices—Freight Paid
HEAVY DOUBLE GALVANIZED Wires. Outlasts chicken netting 5 to 1—costs less. Get free Book and sample to test. Address Dept. 3
The Brown Fence & Wire Co., Cleveland, Ohio

TEETH AND TONIC FOR HENS
PEARL GRIT the "Double Purpose Grit" keeps hens healthy and makes them lay. It grinds and prepares the food for digestion and supplies the necessary shell-making and egg-building elements. Write for free booklet.
THE OHIO MARBLE CO.
71 Cleveland St. Piqua, Ohio

Everlay Brown Leghorns
Eggs half price. Special bargains in stock. America's greatest winning-laying strain.
H. V. TORMOHLN Box 2 PORTLAND, IND.



THE winter of 1917-18 was a test one in this section of the country. The full extent of the damage done to trees, vines and bushes is now plain. All our Gravenstein apple trees were killed. Winter Banana were severely injured. The Royal Purple raspberry bushes were killed to the ground. The Cumberland raspberry bushes were injured a trifle. The Gold, Endicott and America plums were nearly ruined. The Niagara grape vines which were not covered were injured considerably. The Lincoln pear trees came thru without one bit of injury. I now believe it is safe to plant the Lincoln commercially in this section. Surely every home yard should have two or more of these trees. It is not affected by the blight which attacks other pear trees.

* * *

The season has been a backward one, but everything in the garden and orchard is in good condition. At this writing, April 28, our potatoes are showing above ground, while the peas, onions, and other early, hardy garden plants are all up. I look for a very dry season, and have made some preparations and will further prepare for a very severe drouth.

* * *

R. H. Hoffman, Wisconsin, kindly writes:

We enjoy your articles in the American Poultry Journal very much. They have helped us greatly in our work and we hope you will continue to contribute.

* * *

I would like your opinion of Harford County, Maryland, as a location for growing apples and other fruits. Land seems to be very cheap thru that part of the country. Is there anything wrong with it?

C. C. Jones.

Land which has proper air drainage is suitable for the production of apples and other fruits. The soil is not very heavy, but is easily worked and under proper management produces big crops of all farm grains, grasses, etc.

* * *

A few years ago we planted 100 black currant bushes. At the time we had some doubt as to the advisability of so doing. To our surprise the demand has been greater than the supply. We have a foreign population here and they take these currants at a big price.

* * *

Having read in American Poultry Journal that you wanted one potato of each variety for planting in your trial grounds, I am sending you one medium size potato of an extra early variety. It is a new kind, but the name is unknown. It has proved a very heavy yielder for me, so I hope you will give this sample a trial. I am sorry to have no larger potato here to send you, as my seed potatoes are stored in a winter cellar. Of four varieties planted last year, this kind made two and one-half times as many as the Early Rose, three times as many as a white potato I had, and five times as many as the Rapid Transit on the same amount of ground. I enjoy your department and am glad to send you this potato.

Illinois.
Ben H. Rowland.
I have planted this potato and it will have the best of care. Have also received seed potatoes from Mrs. E. T. Harris, Michigan; W. H. Simonson,

Long Island, New York; A. C. Redd, Minnesota; Paul Winters, Pennsylvania, and Mrs. P. H. McGregor, New Hampshire. These have all been planted in my test grounds. I shall report as to yield, etc., of these different varieties in the fall.

* * *

I take the liberty to ask you to help me solve the question of location for poultry and beekeeping, for which I have been preparing myself for some time. Am a draftsman, 52 years old, my wife has poor health. On account of nervous stomach trouble, I have to change my occupation from indoor to outdoor work and am thinking of going where there is a milder climate, but not too warm. I have been collecting and filing your various recommendations of the American Poultry Journal and have to go back to October, 1917, page 995, where you mention Albermarle and Bedford Counties and Richmond, Va., as good locations for poultry and small fruit. Which places would you recommend for my undertaking, keeping the market possibilities in

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GEORGE B. FERRIS
 605 Shirley St., Grand Rapids, Mich.

view, and I will go down there and look the ground over. People from the southern part of Alabama, Baldwin County, have been after me, but I do not know how that would be for poultry. Do you know anything about that section of the country? I have saved enough so that with just a little income or a reduction in the cost of living, I could manage to get along nicely. I am thinking of first renting an improved 4 or 5-acre place with option of buying. Any information you can give me, or any suggestion of any other location, will be highly appreciated. We can go anywhere and are willing to work in order to make it go. Ohio. Chas. Quast.

I think you will find it not at all difficult to pick out a spot in Virginia where bee keeping and poultry raising can be made profitable and where the climate is mild and very healthful and pleasant. Bedford County is more of a farming and fruit section than anything else. Albermarle County would, it seems to me, be better for your purpose. But why do you not figure on buying either an orchard or orchard land? Fruit growing and honey production go hand in hand. When you have an orchard and bees, the bees are doing double duty—producing honey and polonizing the fruit tree blooms. I advise you to write to F. H. La Baume, of the N. & W. R. R., Roanoke, Va., and to Chas. S. Chase, of the Southern Railroad, Washington, D. C. These railroad companies have no land for sale. They maintain a department for the express purpose of aiding people who wish to locate, as you do. You can depend upon them to give you valuable assistance. You can rely upon them wholly. I know nothing of Baldwin County, Alabama, personally. It is being boomed by land men—and I don't like that.

I sent you by parcel post three potatoes, one each of Burpee's Extra Early, Vermont Gold Coin and Farmer, each of which is the best in its class of any we have raised. All are very excellent table quality. Farmer keeps growing for a long time, is always solid, with never any hollow in the largest tubers. Last season we raised 50 bushels in an old garden, with hen manure for fertilizer, and many of them weighed 1 1/2 pounds each. All were fine grained, dry, and mealy and I am sure we never enjoyed our potatoes so much as we have this past winter. I started with them about six years ago, purchasing one tuber from John Lewis Childs, Floral Park, N. Y. By the time we were ready to plant, there were several stocky sprouts on the potato. I took eight of them and set in the ground with the top just out of the dirt. Seven of them grew, from which I raised 11 pounds of potatoes. I cut the potato with one eye on a piece after removing the sprouts, but did not weigh the potatoes raised from them. I am glad to pass these on to some one who is interested in good potatoes, and while I am writing I wish to express my appreciation for your good articles in American Poultry Journal. I am raising S. L. Wyandottes. Michigan. Mrs. Elmer T. Harris.

I was so interested in Mrs. Harris' yield of potatoes from the planted sprouts that I asked her to tell our readers all about it, how she planted these sprouts, etc. Her reply will, I am sure, be of much interest to many of our people who are fortunate enough to have a garden. Mrs. Harris writes:

Five or six years ago, I sent each a piece of potato of a new variety for trial, and at planting time there were on this potato several sprouts which we commonly throw away. I broke them off as usual, and laid them down while I cut up the potato, with one eye on a piece and planted them. As I broke off the sprouts, I noticed that some of them had tiny roots starting close to the potato and as I worked I thought why would not those sprouts grow? So I picked them up, selected eight healthy looking ones, some with roots, and some without, and set them in the dirt, the same as one would set out any kind of a plant, root end down, with the top just above the ground. Seven of the eight grew, and in the fall I had just as nice potatoes from them as from the pieces of potato. I weighed them and had

But he gathered 188 eggs!

LISTEN!
 —6 snow storms.
 —15 days below zero.
 —0 days above freezing.
 —only a few days of sunshine.

IN JANUARY!

Here is the letter in full from a friend of mine—who became such AFTER his experience with my Anconas. Can you blame him? What he did YOU may do—perhaps this winter.

"From the Ancona Chicks I purchased from you last July 17 (note that these were late summer chicks), I got 15 pullets and have never raised a snapper bunch. These pullets laid their first egg on December 2 at 4 1/2 months old. During last month (January) I got 188 eggs. This is remarkable considering that during January we had six heavy snow storms, fifteen days of below zero, not one day above freezing, with only about ten or twelve days of sunshine."

Friend reader—

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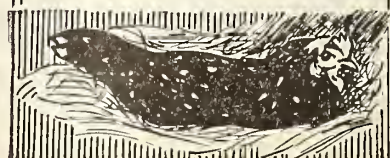
Chicks bought now make dandy WINTER LAYERS. "Prepare."



H. Cecil Sheppard

President
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eleven pounds of potatoes raised from the seven sprouts.

This made a nice addition to the amount of seed of this variety for the next year, and having found the experiment to work so satisfactorily, I have continued with other varieties the same way.

You may think this is queer work for a woman to do. I want to tell you it is more interesting than picking out new patterns of crochet, and better recreation than going to a picnic at a lake, altho I enjoy all these things. For three years past we have had our first new potatoes for the table from sprouts of early varieties. They mature about ten days ahead of the potatoes raised from the potato pieces which were cut and planted at the same time. The reason for this, as I understand it, is that the sprout grows to be the potato top, which has already a good start, little roots start immediately (some being already started at planting time) and little potatoes soon begin to "set" on them, while the piece of potato placed in the ground must lie there some time before a new sprout will grow to the size the original sprout was at planting time.

There are several questions that interested persons might ask, which I will try to answer. The soil must be moist or the sprouts will wither and die. Length of sprouts? Anything from an inch to a foot long will grow. Last year we had a lot of sturdy sprouts on our early potatoes at the time we cut them for seed. The men made furrows the same as for dropping potatoes, and laid the sprouts at one side of the trench (same depth as for potatoes) allowing top to lean against the side of trench and stick up any height it might be, then after dropping them all, they filled in the trench with a hoe, pulling the dirt from the opposite side from where the sprouts were placed.

We had four rows across our garden, which furnished a family of seven all the potatoes we used for two weeks previous to those raised from potatoes. When seed potatoes are scarce and high in price, as they were last year, it is quite a saving, as well as having them ready earlier.

Can sprouts be kept after taking them from the potatoes? They may be placed in a box of earth in a cellar if kept cool and moist, or can be "healed in" in the garden for a week.

The planting of them in large quantities would be quite tedious, but it pays when you have a choice variety which you have purchased at a high price and wish to get all you can from them.

Michigan. Mrs. Elmer T. Harris.

* * *

Last fall I planted some onion sets. Planted them very late, covered them with straw. This spring the straw was in part removed. We will have young onions in a few days—a long way ahead of the sets, which were spring planted.

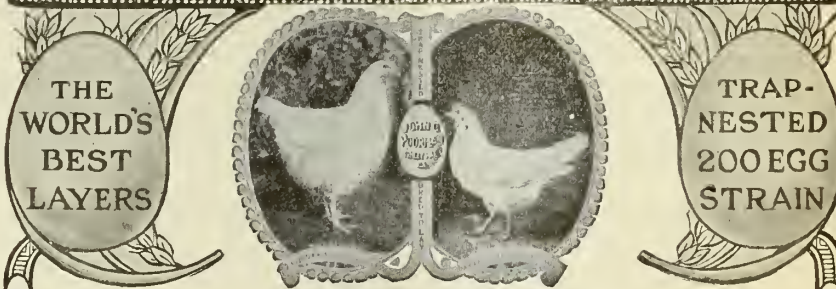
* * *

I have bought a 20-acre farm, 7 acres set to fruit, apples, peaches, pears, plums and cherries. The trees came from Stark Bros. nurseries and seem to have been pretty well cared for. They are now about ten to twelve years old. The orchard is set to blue grass and I cannot decide if this is proper. Should the ground be plowed up and the soil kept mulched? The trees are planted 20 ft. apart each way. I was told by a stranger the other day, who said he had worked twelve years in the orchards of Michigan, that we Hoosiers do not know how to trim our trees, that we could grow fine wood, but we do not know how to trim for fruit. His words set me to thinking. What about this trimming for fruit? Can you tell me anything about it? If plowing the orchard would be a benefit, would you advise sowing crops of green food for my poultry in the soil or would you continue to cultivate thruout the summer? I would like to run my poultry in the orchard to give them the benefit of its shade. I expect to plant five acres in young trees. What varieties would you recommend for this locality? Would you suggest all apples or would you set other kinds of fruit trees as fillers? Would you plant strawberries and other small fruits between the rows of young trees? Would it keep the soil too loose for the young trees if I should cultivate the small fruit frequently thruout the summer?

What varieties of blackberries, raspberries, currants and gooseberries would you advise me to plant here? Is there any way to make plums stay on the trees until ripe? I am told the plums in this orchard dry off before they are ripe. These trees have always been given the lime-sulphur dormant spray in the month of March and arsenate of lead in May and again in June.

Is strong salt water good to spray pear trees with, to prevent blight? When would you use it? I am getting behind this proposi-

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tion with all I am worth and looking forward to the time when I can say good-by to the old railroad and get out where people live and enjoy life.
 Indiana. Omer Imes.

If the whole orchard is planted as one block it is evident from what you say that the proper management has not been followed. For instance, peach trees should never be allowed to stand in sod. The peach orchard should be given thoro cultivation each season, until about the middle of July, when a cover crop should be sown, this to be plowed under each spring. If the apple trees have made good growth they will now stand too close together and every other tree should be cut out. The apple will stand a sod if the grass is cut each season and piled about the base of each tree. Never remove the grass from an apple orchard in sod. You will get far better returns financially from the grass by piling it around the trees than you will to sell it as hay or feed it. This is true of a pear orchard too. Pear trees can stand 20 ft. apart, but it is a little too close.

The plums and cherries will stand sod if an open space well mulched is given each tree. In regard to pruning fruit trees, I cannot tell you on paper how to do this. Each tree is a problem in itself. As a general rule, shape the tree when set, and each season trim the tree, removing any unnecessary wood. It's all told in those few words, but it really conveys little idea to the reader. If I could be with you in your orchard a little while I could make it all clear to you.

Now as to plowing this orchard which has been set 12 years. You must be careful not to plow too deep. If you do you will injure the trees' roots, which will be near the surface. I would plow the part set to apples and peaches and treat it as above. Would leave the part set to cherries and pears unplowed and use the grass cut as a mulch for the trees.

I advise you to have one of the experts from your state college come and inspect your orchard and advise you. Do not fail to do this.

I would not intercrop the apple and peach orchard. If the trees have made the growth they should have made there will be no benefit to the trees in intercropping. Then, too, the ground will be so shaded as to be of little worth in growing any crop.

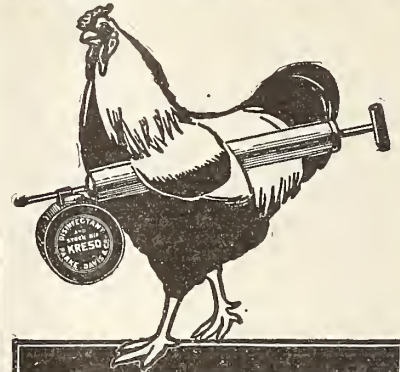
As to the new five-acre orchard you will set out, I advise you to plant all to apples. Plant Delicious and Stayman or Delicious and Jonathan, making two rows of Delicious and one row of the other variety. Set trees 30 ft. apart in straight rows.

You can intercrop this five-acre orchard. One way to handle it would be to plant strawberries, currants and gooseberries in the center of the rows, leaving open space of several feet on each side of the trees. Cultivate the whole thoro. Sow a cover crop in the open space between the trees and the small fruit about July 15. This cultivation will cause the young trees to make good growth. Another way, and one I like better, would be to raise corn in the young orchard, seeding down at the time specified in the other plan. However, either of these plans are all right, if you will bear in mind all the time that the growth of the apple trees is of the first and most importance.

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As to the varieties of small fruits. Plant Snyder and Mersereau blackberries, Royal Purple and Cumberland raspberries, Red Cross and Diploma currants and Oregon Champion gooseberries.

I have never had any trouble with plums falling from the trees. Cannot understand your trees thus dropping the fruit. It may be the bloom is not properly fertilized.

Do not spray pear trees (or any others) with salt water. Salt water has no effect on the blight. Pear blight is a hard thing to combat. The best way is to cut out all blighted parts below the damaged wood and to paint the wound with crude kerosene oil. I have found that spraying with sulfocide is a help in fighting blight. I have cut out all pear trees but Lincoln and Seckle. Lincoln has not blighted on my place in 20 years. Seckle is very free from blight and what little does show up can be controlled by pruning.

* * *

I have been a reader of your writings for a number of years and greatly enjoyed them. I used to live in Iowa, near Sioux City, but since our baby's and my wife's health is not as it should be, I brought them to Colorado and have been here over three years.

Now I am not a rich man, but a poor one, and would like to buy some land in Virginia. I want to raise fruit, poultry and cattle. I am now engaged as a herdsman on a large ranch, but it is impossible for me to buy land around here, as it runs from \$150 to \$250 per acre.

As you have helped so many others, perhaps you can help me, as I do not want to lose what little money I have saved by scratching and pinching wherever and whenever we could.

Where could I buy about 100 acres of land reasonably? I want to buy as cheap as possible and to steer clear of land sharks. I want to locate where the water is pure and think you know this country as well as any one does.

Colorado. Thos. E. Hiesley.

I advise you to look over Arkansas, Virginia and North Carolina. In those sections you can find good farm land, good grazing land and good fruit land. You can have there a supply of pure, soft water. The climate is mild and healthful and land is comparatively cheap.

* * *

Up until 1910 I worked as telegraph operator for about twelve years, when I came in here on a farm with my mother and have been farming since that time. My mother and I both are sufferers from catarrh and I want to move to a climate more favorable than this for those afflicted with this loathsome disease. My idea is to try Florida, and knowing you are familiar with conditions there I would like to have your opinion of land, climate, etc., around Fruitland; also around Lakeland.

I would not want over 15 or 20 acres of land and thought of having a poultry and fruit farm combined. Will not have over \$5,000 in cash, but thought I would get a place near some good town and secure a position with the railroad people, or maybe with one of the commercial companies — Western Union or Postal — and hold this until I could get the farm developed to where we could expect a living from it. I worked for the Western Union for two winters in their main office in Jacksonville, Fla., but I didn't have any op-

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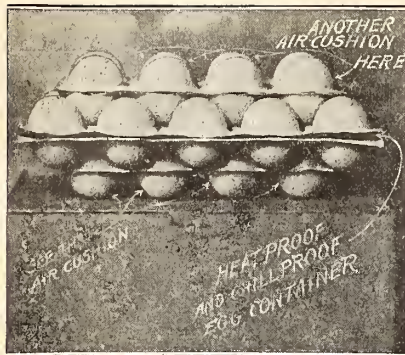
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GENSCH'S Single Comb White Orpingtons

Sensational Winners at Chicago Coliseum, Grand Breeders — Half Price

A good chance to get the best cheap.

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Mated Pens, Hatching Eggs.

Young stock for sale from my selected laying strain.

T. CADWALLADER DOYLESTOWN, PA.

Glenco Black Orpingtons

winners at Chicago Coliseum, Kansas City, Omaha and Des Moines. This year's breeders at less than half price. I want the room for chicks.

Dr. G. H. Humphrey Woodbine, Iowa

Longfield R. C. Reds

Fifteen eggs, guaranteed to hatch 15 chicks from The Greatest Chicago Winners.

Half-Price—Half

Summer sale of surplus breeders starts June 1st. They go at half their actual value. Some rare bargains are offered. Write for list. Longfield Poultry Farm Box 321 Bluffton, Ind.

Rockdale WHITE ROCKS

Eggs, \$2.50 to \$5 per setting. Breeders half price. DEVOE'S Station 1 DODGEVILLE, WIS.

Jensen's Leghorns

Trapnested for seven years.

Eggs \$7 per 100. Baby Chicks \$12 per 100.

CARL J. JENSEN, North Ave., Waukegan, Illinois

Golden Wyandottes

Eggs and Chicks shipped to reach you safely. Eggs, \$2 per 15, \$3 per 30, \$4 per 50, \$8 per 100. Chicks, prepaid, \$19 for 20, \$11 for 50, \$6 for 25. Circular free. J. S. PENNINGTON, Box A, PLAINFIELD, ILLINOIS

S. C. Black and Buff Orpingtons

winners at all the leading midwest shows, Chicago, Des Moines, Omaha, Kansas City, St. Joseph, Dubuque, Cedar Rapids, Davenport and St. Paul. Stock and Eggs for sale.

O. M. BROWN Box G SLATER, IOWA

Single Comb Brown Leghorns

Chicago, Indianapolis, Columbus and Milwaukee winners. Eggs half price. Write for mating list. Herbert F. Moeller Box 137 B La Porte, Ind.

portunity to see any of the country except from car windows.

I have always loved poultry and kept a few of my favorites—the Barred Rocks. My desire is to sell breeding stock, eggs for hatching and day-old chicks. What do you think of this branch of the business in Florida? What about the labor proposition in Central Florida?

The real estate people at the places I have named and with whom I've been corresponding boost the grape fruit. What do you think of this? I shall greatly appreciate any information which you can give me.

Mississippi. C. K. Stewart.

I know a man who was so badly affected with catarrh that he could not live here. He removed to Hammond, La., in the pine woods and was cured. That is, the disease did not trouble him at all there. He engaged in the small fruit and poultry business and prospered. You might investigate that part of the state.

I will try to answer your questions in order of asking.

I advise you not to go into the poultry business in Florida.

You can secure all needed labor at fair rates in Florida. The negroes do most of the work down there.

The soil around Fruitland and Lakeland is suited to citrus fruit production. Of course you must not expect to be free from frost, but you will be reasonably secure in this respect. I think a grape fruit grove in Florida, properly managed, a good thing to own. Florida produces the best grape fruit in the United States. The experienced growers there are making money. The climate is good in the section you mention.

You will be doing the right thing if you go down there and quietly look over the situation. Keep away from the land agents. Do not let it be known that you want to buy land, until you learn all all about conditions. And for the sake of your family and yourself do not let it be known to the land agents that you have \$5,000.

* * *

I have letters for Mr. Gust Soder, Kentucky, and Mrs. Miles Call, Arkansas. Have lost addresses of these people. Will forward letters if they will send me their addresses.

* * *

I have read with pleasure your answer to my letter in the March issue and believe I can read between the lines that you advise anyone making a change to look over S. W. Virginia. I would like to have you suggest some county in that section that I may go and look it over. Where you know they have blue grass pastures and the health conditions are good. I want to go and look that part of the state over in a few weeks. If you know any section that you think has a future in the way of increased farm values, would like to have you suggest it.

Maryland. J. E. Moore.

Advise you to look over the Piedmont and Valley of Virginia sections of the state. You will surely find conditions to your liking. All that section is increasing in value rapidly.

* * *

I have a long and interesting letter from Thos. E. Winslow, Australia, in which he says he will comply with my request and give me a letter for this department, on fruit growing and gardening in his country. I am sure our readers will enjoy this letter.

* * *

This month, spray the currant and gooseberry bushes with arsenate of lead to kill the currant worms.

* * *

I am living on the bank of Lake Pefin, just where the river forms a large bay on the Wisconsin side and widens out into the lake. The soil is all sand here, but there are some old



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51 PRIZES MADISON SQUARE

Rose and Single Comb

Brown Leghorns

Records 200 to 266. Big birds, large eggs. Customers write me: "Your Brown Leghorns best layers I ever raised."

Eggs

\$1.00 per 15, \$7.00 per 100.

Special pen one half price.

W. W. Kulp, Box 70, Pottstown, Pa.



Single Comb White Leghorns

Yearling and two year hens. If you are looking for good breeding stock that are laying heavy now, at very reasonable prices, write

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Giant Incubators, Coal-Burning Colony Brooders, Portable Poultry Buildings, Practical Trap Nests, Incubator Alarms.

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Colored Big Double Number Poultry and Pigeon Bands. New coil Baby Chick Bands—not numbered. 12 colors. Try the modern way, you will like them. Very efficient. SAMPLES FREE.

ARTHUR P. SPILLER Box A Beverly, Mass.



plum trees planted many years ago that were quite good in their day. They have had no care at all and are now quite small. I have also some poultry. The poultry house is built right on the sloping bank and I would like to plant some other plum trees in the yards. What varieties would you recommend? Would such apples as the Delicious, Golden Delicious, Stayman's Winesap, Jonathan and Grimes' Golden do well in this soil and locality? I have not seen a cherry tree about here and I do so like cherries. Do you think they would grow and what varieties would do best?

My idea is to have some well paying White Wyandottes, some good fruit trees, berry bushes and a garden. I have some few bushes of currants, gooseberries, raspberries, both kinds, blackberries and grapes, but want to get more of all these. What kinds are best for growth in this sand? The sand in the ground where I plan to put the berries is black, has had some cultivation. But where I want to plant the trees it is yellow sand. Of course I can get a lot of barnyard manure for fertilizer.

Wisconsin. Reo Henry Hartwig.

I would not hesitate to plant apple, cherry and plum trees in the sandy soil of which you write. Of course, would not plant a large commercial orchard of apples, but for home use would not hesitate. The soil ought to be extra good for small fruit, especially raspberries, grapes, etc. The varieties of apples you name are all good and I would plant them were I in your place. Add to your list the Wealthy. Would plant Montmorency cherry, with a few early Richmond. I recommend the following varieties of small fruits:

Grapes: Concord, Worden, Niagara, Moore's Early.

Raspberry: Royal Purple, Plum Farmer, Cumberland.

Currant: Red Cross, Diploma.

Gooseberry: Oregon Champion.

Plums: Surprise, Wyant, Stoddard and Omaha.

Of course you will have to use barnyard manure liberally on this light soil.

My Opportunity to Help Win.

"As long as men go to the front at the risk of being shot," writes Lloyd H. Nelson, a New Jersey farmer, in a letter to the U. S. Food Administration, "it is clearly my duty to risk all I possess. It is my duty to take a full risk in planting as many extra acres as my means will permit. This I am doing in 1918.

"Having leased two extra farms, I propose making this year the supreme effort of my life. If I make a good profit, it will be fully earned. If I but make expenses and produce four times as much food as last year, it will be my opportunity to give strength—to give courage to help win. I am planning to farm to the extreme limit.

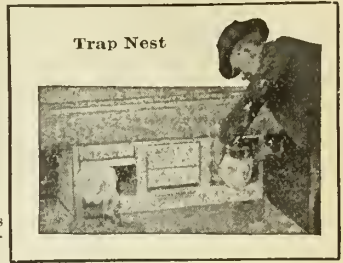
"One city man last year spent his half holidays helping a farmer—taking his pay in supplies, such as potatoes, vegetables and fruits. This plan combines recreation with production and should prove a popular form of war work."

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net, no commission; returns day of arrival. All reasonable drafts honored, to

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2 for 35c

Here is the Feeder and the Fountain

for which every poultryman has been looking. It combines all the good qualities of the ordinary Mason jar fountain and feeder with the good qualities of the best baby chick feeders on the market. The bottom of the feed pan slopes from the center to the edges, thereby insuring a free flow of feed from the jar to the edge of the pan, where the chicks can reach it thru the openings. The small openings prevent dirt from getting into the pan—prevent the chicks from getting into the feed or water and prevent them from crowding too close around the feeder, thereby giving the weaker chicks an equal chance with the stronger ones. This overcomes every objection to the ordinary open pan Mason jar feeder and fountain. It fits any Mason jar.



3 for 50c

The top of the pan can be removed in a second to clean or fill. It is the most inexpensive, most practical and most sanitary feeding and watering device on the market and is fully covered by U. S. Letters of patent. If ordered from this ad we will send them postpaid to any address in the United States. **SIMPLEX SUPPLY HOUSE** 1300 Pontiac Bldg. CHICAGO, ILLINOIS. Send for our complete Catalog of Poultry Supplies and find out about our marvelous Feather Brooders; also Automatic Grain Feeders and Non-Freezing Water Fountains.

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My Silver Campines Again Champions!

at the COLISEUM, CHICAGO, Dec. 4-9, '17

I won the Sweepstakes Championship for the 5th successive time

Cocks	Hens	Cockerels	Pullets	Old Pen	Young Pen
1	1		1	1	1
2	2	2	2		
3	3		3		
			5		

40 males placed at the Coliseum Show during the last four years.
104 females placed at the Coliseum Show during the last four years.

NOW GET THIS: The breeder who has only five, ten or fifteen exceptional Campines is not going to supply many customers with hatching eggs from prize-winning fowls. But when a breeder has literally scores and scores of Big Show Winners, as I have, the customer is pretty certain to get what he pays for in the way of hatching eggs and day-old chicks. Isn't this reasonable?

HATCHING EGGS from the finest exhibition Silver Campine matings:

- Per Sitting of 15 eggs.....\$10
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- One hundred eggs for.....50

HATCHING EGGS from other pens headed by Coliseum winners, but not Bl. Ribbon males:

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Write me today for information.

FRANK E. HERING Desk B SOUTH BEND, INDIANA



Makes 'Em Turn up Their Toes Mighty Quick

There isn't a ghost of a show for lice and mites on hens, chicks or nests after a dust with the old reliable Lambert's Death to Lice. It knocks 'em stiff in a jiff. As one of the big successful poultrymen wrote us, "It is impossible to get along without your louse killer," so it is with every user. There's nothing so efficient.

Don't Experiment

Follow the example of the leaders—ask any successful poultryman which lice killer has been the standard for 30 years—which is acknowledged BEST. He will tell you to

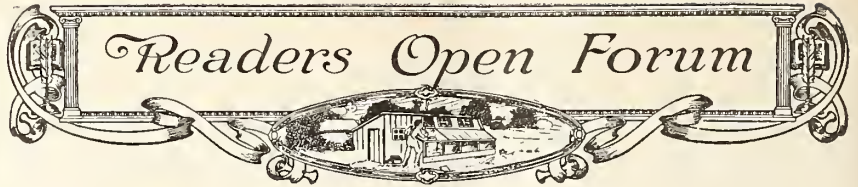


Get **Lambert's**
OLD RELIABLE
DEATH TO LICE

because he has found it **always** the **BEST**.

Don't expect to make your hens pay and permit lice to worry and annoy them. The lice will get the profit and often the hens and chicks, too. A few cents invested in Death to Lice will bring dollars in profit. Just the thing for layers, sitters, and exhibition stock. Will not injure eggs, chicks or hens or soil plumage. Get a 5 oz., 10c box at dealers to try (or send to us direct if he can't supply you). Other sizes 25c, 50c and \$1.00. Lambert's Latest copy of "POCKET BOOK OF POINTERS," a valuable book for poultry raisers. Mailed for 2c stamp.

KLEIN-LAMBERT CO.
601 TRADERS BLDG. CHICAGO



Selecting a Variety.

THE first requirement in choosing a variety of poultry, according to my way of thinking, is that they are profit winners. I wished to cast my lot with a breed that would bring in the most dollars in return for what was spent on them, while at the same time proving a source of pride and pleasure in their ownership. I decided that a white bird of good size and well proportioned could not be excelled for beauty. The contrast produced by the snow-like whiteness of the plumage with the green background of the lawn and range was one to attract the attention of all passers-by.

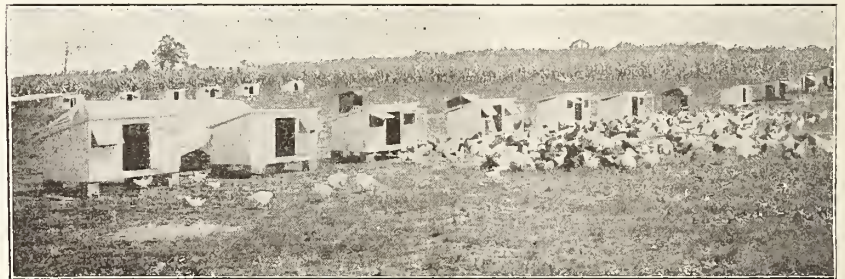
From the standpoint of the fancy, the White Wyandottes are everywhere greatly admired. Their massive, blocky, well set-up form finds favor in the show room wherever shown. Their pure white plumage with yellow legs, blood red wattles, lobes and comb form a very pleasing contrast. There are no sharp angles to be found in this variety. It is strictly a bird of curves. Picture to yourself the graceful curve of the back, the broad saddle, full hackle, and deep well-rounded breast. Then form your own conclusions.

We all like to get lots of eggs and get them during the winter months when prices are up. That at least is my desire. The Wyandotte, owing to their abundant feathering and neat,

the chicks from these eggs. No record was kept of these pullets, but they laid so well that we again procured eggs for hatching of the same variety. The following fall we kept ten pullets and a cockerel. This flock from December 1, 1916, to December 1, 1917, laid 1,538 eggs, which eggs sold or eaten at the market price amounted to \$50.05. The chickens amounted in cash to \$17.60 or a total of \$67.65. The feed cost of these birds amounted to \$66, which only left us a gain of \$1.65 for the year, which seems a small amount above feed cost, but buying grain in small lots in these days of high priced grain is expensive. We are paying \$4.50 per 100 lbs. for corn; \$4.75 for wheat; \$3.50 for oats; bran and mash, \$2.50 to \$3.50; straw, 50c a bale and beef scrap 5c per pound.

In 1917, we purchased several sittings of eggs from first-class breeders and raised 41 chicks and culled them down to 10 pullets and a cockerel. Six of these pullets were hatched May 20 and four of them were hatched June 20, 1917. We received the first pullet's egg December 18.

We find the Reds practical utility fowls, quiet in disposition, yet active about the coop and yard. They are perfectly at home in confinement and contented with their quarters. They do not seem to get overfat and are easily broken up when broody. We place them in a small coop for two or three days and feed



A view of one of the colony fields on the farm of the Co-Operative Breeding and Hatching Co., Box 16, Tiro, Ohio.

low, rose combs are well adapted to withstand severe winter weather. The temperature hovering around zero seemingly has no ill effect on them, for they keep right on doing business at the old stand. They stand confinement well, are not nervous or easily frightened. A four-foot fence is sufficient to keep them confined and in many cases three-foot fences have served the purpose.

White Wyandottes are not heavy eaters, altho of a heavy variety. As layers, the Wyandottes hold their own with any breed and in many cases come out on top. As a market fowl they are especially valuable. They are ready to be dressed for the table at any stage of growth, being always well filled out and the flesh tender and delicious. The yellow skin and legs are appreciated by careful buyers and there are no dark unsightly pin feathers to show thru the skin. When only a few weeks old they make fine broilers, but for real tooth-someness, the White Wyandotte broiler at eight weeks has no equal. At this age they easily attain the weight of one and three-quarters pounds, the flesh being especially tender and juicy.

Indiana. Otto E. Hackman.

Poultry on a City Lot.

We live in the city on a lot 50x120 ft., with the house on the front of the lot. Across the rear, running north and south, is a poultry yard. The poultry house is 10x20 ft. open front, facing south, and divided into two pens, each 10x10 ft. The yards are 10x30 ft. and at the south end of each yard is a small yard 10x10 ft. In each small yard is a coop for a hen and brood.

In 1914 we bought a sitting of eggs from a neighbor for 25c. From these eggs we saved 5 of the best pullets which gained our attention by keeping a family of two supplied with eggs that year. In the spring of 1915 a friend gave us 2 sittings of R. C. Rhode Island Red eggs and in the fall ten pullets were kept from

heavily, then put them back in the flock. Have never failed to break up a broody following this treatment. As mothers, they are unexcelled, steady, light and careful on the eggs, and faithful to their hatching duties and to the little chicks.

The Reds make fine table fowl. Last Thanks—



A Natural Food Product

Made from the choicest of buttermilk to which has been added vegetable oil to form a proper balance of carbohydrates and protein, and is further acidified to give it germ-destroying properties.

For Your Breeding Birds

Gives them extraordinary vitality to lay maximum number fertile eggs.

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Produces big, husky, lively chicks, free from white diarrhoea and other diseases.

For Fattening Broilers

Puts them in a plump condition and a finish that tops the market. The cost is slight—results are big—satisfaction guaranteed. Trial order \$2. Five gallons \$7.50.

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60 VARIETIES—THOROUGHbred POULTRY

Ducks, Geese, Guineas, Turkeys, Pheasants, Yokohamas. Games and Peafowls. 2000 vigorous, profitable fowls for sale. Bred-To-Lay Strains. Stock and eggs. Any quantity, satisfaction guaranteed. Wanted—Peafowl Circular, 2c. F. C. WILBERT & CO. Grand Rapids, Mich.

giving we killed a cock that was nineteen months old. When dressed ready for cooking, he weighed just seven pounds. We put him in a covered roasting pan, which we use for roasting turkey, and kept him in the oven for a good length of time and he came out extra fine eating, with a rich juicy flavor and very tender. Later we killed one of the hens, which dressed seven pounds, and she was a great success with a table full of company.

In the confined quarters, which is all we can give the chickens, the Red color is especially good. Notwithstanding the alkali soil, the plumage looks well and even though they may be considerably soiled they do not show it. As a back-lotter's fowl we believe they are hard to beat. The R. C. Rhode Island Reds will put eggs with the bacon, and meat on the table of the city man who will give them a trial.

Colorado.

E. L. Stratton.

Likes Article by Mr. Henry.

The article in the April number of American Poultry Journal entitled, "Mr. Hoover and the American Hen," by J. P. Henry, is worth the price of the Journal for the year. It is the best article I have read on the subject. Unless some adjustment is made between the price of poultry and eggs and the price of feeds, the man producing the poultry will have to shut down and go out of the business. I have been in the business for some years and the price of feeds for some years past with low prices on eggs and poultry products is not conducive to increasing poultry production. The day of cheap feed for poultry is a thing of the past and poultry and eggs must go up in price and stay up. I would like to hear from others like Mr. Henry.

J. L. Boyd.

Care of Little Chicks.

When little chicks are first hatched, if placed with the hen mother, keep a close watch for head lice. I have found this trouble kills a great many young chicks. As soon as the chicks are hatched I rub a little lard on each head and under the head on the throat. When the chicks are about 48 hours old, I give them their first feed of hard boiled eggs and bread crumbs. Also supply them with fresh water and sand, but do not allow them out in the damp or cold for a few days should the weather be unfavorable. I have runs 5 ft. by 6 ft. and about a foot high and covered with fine wire, where I feed the little youngsters by raising one corner just high enough so the smallest chicks can get under. They can then eat to



First prize Buff Minorca pullet at Chicago Coliseum Show, 1916. Owned by Walhalla Poultry Farm, R. 1, Oscoda, Mich.

their heart's content without being annoyed by the bigger chicks. Every brood should be fed separate. When more than one sized chicks are in the same coop, the small one are always crowded and do not get their full share. I move the runs often. Charcoal should be kept in hoppers at all times. If any of the chicks become crop bound, give a teaspoon of melted lard. See that the hens and chicks have free access to cool fresh water at all times. This is a cheap tonic which is often overlooked. I use a large lard pail without handle, fill it with

A GREAT EGG PRODUCER

is "OCULUM," the liquid germicide so scientifically compounded that 10 drops to the pound of feed destroys worms and germs without injury to the fowls.

The merit of "OCULUM" is that it quickly routs diseases like White Diarrhoea, Roup and Cholera, keeps the flock healthy, saves feed and cuts down labor. The joy of using "OCULUM" is that you get plenty of EGGS winter and summer and even during moult.

U. R. Fishel, Hope, Indiana, says: "I would not think of doing without 'OCULUM' if it cost five times what it does." A. C. Hawkins, Lancaster, Mass., says: "You surely should have a large sale for 'OCULUM' when its qualities become known."

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It's Not Too Late to Hatch
HOMESTEAD The Vigorous Strain CAMPINES

They Develop Rapidly and Lay Early

Many winners for the winter shows will be hatched in June, and we have the quality that produces winners. We won the cream of the prizes at Madison Square Garden, Boston and New York State Fair.

Send for Price List TODAY

Remember, *Homestead* dominates in the world of Campines.

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BABY CHICKS
100,000 FOR 1918

Rhode Island Reds, White Wyandottes, White, Brown and Buff Leghorns, Black Minorcas, Anconas, Barred and White Rocks and Broilers. Extra large and heavy layers. Egg record of 248 flock. Lowest prices. Literature free.

HARRY LEPARD, 1945 W. 74th St., Cleveland, Ohio

Huber's Baby Chicks

250,000 for 1918. 10 leading varieties. \$11.00 per 100 and up. Chicks that are hatched right from the best laying and exhibition strains. Special combination offer on chicks and brooders. We ship by parcel post. Give us a trial and be convinced that we will give you the best chicks for the money. Free catalogue.

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Efficiency Day-Old Chix

Shipped prepaid to your door by parcel post and 100% delivery. You should read the letters from our patrons and read how well pleased they are with our high-grade stock. None better, and hatched so well that they get a big start in life. We supply nine varieties. No better time to raise chicks than right now—and the prices are low. Send for our catalogue which describes all.

Clyde Chick Hatchery, Box A-21, Clyde, Ohio

Premier Partridge Wyandottes

DISTINCTIVELY INDIVIDUAL and Rouen Ducks

Winners of Highest Honors the world over. During July and August we will sell mated pens consisting of one male and four females for \$15. Trios for \$10. Rufus Red Belgian Hares of quality. Write for prices. SHEFFIELD FARM H. B. HARK, Mgr. GLENDALE, OHIO

BARRED ROCKS

First Prize Hen at three of Ohio's best shows—Dayton, Columbus and Springfield, 1917-18. Our birds won fourteen prizes and four specials at above shows. Get our mating list for full information.

LEIGH BICKETT R. R. 9 XENIA, OHIO

MINORCAS Giant Single Comb BLACKS

SALE—SALE—SALE—Big values for quick sales on surplus breeders. A pen of good birds now will produce your next year's layers. Catalog.

JOHN L. BROWN 1515 W. 7th Street ANDERSON, IND.

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The usual number of baskets won't do any longer—since the hens are on a ration of Common Sense Scratch Feed and Egg Mash.

Any poultry breeder who has used Common Sense Feed will tell you that.

And you may know it's true because with every bag you get a guarantee—in writing—of increased egg yield.

Common Sense Scratch Feed and Egg Mash

—are made in our own mill from selected grains. Every kernel is sweet—fresh—and clean.

When you give your hens Common Sense Feed you give them just the right proportion of proteins, carbohydrates, fats, and other food elements necessary to increase their vitality—and egg building ability. Common Sense Feed is a balanced ration.

Common Sense Baby Chick and Developing Feed

is guaranteed to raise better chicks for you. If it does not give you better results you may return it and get your money back.

The FAMABELLA COMPANY, Inc.
Dept. 4
1107 Grand River Ave. - DETROIT, MICH.

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290 EGGS IN ONE YEAR

water and invert it in a shallow pan, considerably larger in circumference than the lard pail. For young chicks a good sized cup and saucer may be used in the same manner.

See that the nests are clean and the nesting material changed frequently. Whitewash the interior of the poultry house, adding a few drops of carbolic acid to the whitewash. Mix a few tobacco stems with the new nesting material. Keep down lice and mites about the poultry houses. I am a farmer's daughter, but a great lover of poultry. We have W. F. Black Spanish, Anconas, Buff Orpingtons, S. C. White and Brown Leghorns, Barred Plymouth Rocks and Silver Campines. We think the Leghorns and the Spanish surpass all the others for eggs.

Tennessee. Nellie Leake.

Raise More Grain.

The chaotic condition prevailing thruout the poultry industry today is the natural and inevitable consequence of one great mistake—the building of the industry, like our whole social order, upon sand. No foundation worthy the name having been provided, the structure could not weather a brisk storm. What would we think of a government sending an army into the field without necessary supplies to keep it in fighting trim but left the provisioning to greedy profiteers or whoever happened along? No one would call that a practical policy to adopt and all would agree that it would be doomed to failure at the start. But such is the precise condition under which the average poultryman labors. He starts out by buying or renting a small farm, usually from five to twenty acres and expects to keep from 500 to 3,000 fowls, several cows and hogs, besides raising large quantities of vegetables, fruits, etc. Usually he only has land enough to give his birds the required amount of range and supply them with the necessary green stuffs. It is rare that any provision is made for growing any part of the food for poultry. Moreover, the soil on the average poultry farm is of such inferior quality that it would not grow grains.

Now a man raising poultry cannot devote himself to general farming and he should not keep more cows or hogs than he needs to supply his own family table. He will have no time to raise vegetables, or fruit except for home use, but if he is to make a success of poultry keeping he will have to raise a part of the grain or be left to the mercy of soaring prices.

New York. Anthony Decker.

Wheat Conservation a Military Measure.

The conservation of wheat is now a military necessity and wheatless meals and days will be rigidly enforced in public eating places, the Food Administration announces. While private homes will not be required to observe special days as wheatless, they are urged to go farther and make every day wheatless where circumstances permit.

The housekeeper who cannot take wheat wholly from the menu is requested to cut each member of her family to at least one and one-half pounds per week. How she shall do this and how much greater reduction she can make is left entirely to the individual. The Food Administration believes that the imperative necessity for this measure will be well understood and that its request will receive ready response from the intelligent class.

Ferris White Leghorns

Chicks from 200 to 230 egg stock—25 chicks \$7.00, 50 for \$13.00, 100 for \$25.00, 1000 for \$200.00. From 230 to 264 egg stock, 25 chicks \$9.50, 50 for \$18.00, 100 for \$35.00, 1000 for \$275.00. Utility chicks, 25 for \$5.00, 50 for \$9.50, 100



for \$18.00, 1000 for \$160.00. We ship by Parcel Post the same week we receive your order. Safe arrival guaranteed.

We can fill all egg orders promptly, and we guarantee fertility and safe arrival. 230 to 264 egg stock: 15 eggs, \$3.50; 100 eggs, \$16.00; 1000 eggs, \$135.00. 200 to 230 egg stock: 15 eggs, \$2.50; 100 eggs, \$12.00; 1000 eggs, \$110.00. Utility matngs: 15 eggs, \$2.00; 100 eggs, \$9.00; 1000 eggs, \$80.

Eight-Week-Old Pullets

One of the most satisfactory ways to start with Ferris Leghorns is to buy a pen of 8-week-old chicks. At this age the pullets weigh about 3/4-lb. and the cockerels about one pound. We guarantee safe arrival anywhere. We can ship any time you want them.

From 230 to 264 egg stock: 10 pullets and 1 cockerel, \$33.00, 100 pullets \$225.00. From 200 to 230 egg stock, 10 pullets and 1 cockerel \$23.00, 100 pullets \$175.00. From good stock without records: 10 pullets and 1 cockerel, \$18.50; 100 pullets, \$125.00.

This FREE Catalog

tells all about Ferris White Leghorns and how we breed them for egg production; describes the eggs, chicks and 8-week-old stock quoted above; and the liberal guarantee under which we sell them. Write for it—a post card will do—and let us show you why you should breed Ferris trap-nested laying stock.



GEORGE B. FERRIS
905 Union Avenue Grand Rapids, Mich.



The "Best Yet" Aluminum Leg Band

cannot come off. Five sizes, pigeon to turkey. State breeds—12, 15c; 25, 25c; 50, 40c; 100, 75c. Celluloid Leg Bands—Red, Green, Amber, Pink, Black, White, Yellow, Light Blue, Dark Blue. Pigeon and Baby Chick sizes—12, 10c; 25, 20c; 50, 35c; 100, 50c. Poultry sizes, 12, 15c; 25, 30c; 50, 50c; 100, 80c. Circular free.

Aluminum Marker Works, Dept. J, Beaver Falls, Pa.

MAPLESIDE BRED-TO-LAY

BARRED PLYMOUTH ROCKS

Are Known the World Over

They have gone to South Africa, Australia, Hawaiian Islands, Alaska, Canada and Mexico. Why not to you?

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\$2.....per 15; \$3.50.....per 30.
\$5.....per 50; \$10.....per 100.
Extra Selects—\$3...per 15; \$5...per 30.
Day old chix. Circular free.

O. F. MITTENDORFF Box F LINCOLN, ILLINOIS

RUDY'S Perfection White WYANDOTTES



"We hold our own in any competition."

Our special prices make it possible for everyone to own a beautiful flock of

Pape's Single Comb Black Minorcas

they are glorious producers of large white eggs and they make a delicious table fowl and win championship prizes for us and our customers the world over. Am offering for immediate delivery and guarantee safe arrival on Eggs that will hatch, Chix, day-old and partly matured that will thrive and on well mated pens and layers. They do well confined and are worth many times just the ordinary fowl.

The mild even temperature of June and our free special sales list offer golden opportunities. Tell us what you have in mind—will do our part.
CHARLES G. PAPE, Box 874, FORT WAYNE, IND.

Earth gets its price for what Earth gives us.
The beggar is taxed for a corner to die in.
The priest hath his fee who comes and shrives us,
We bargain for the graves we lie in;
At the devil's booth are all things sold;
Each ounce of dross costs it ounce of gold;
For a cap and bells our lives we pay,
Bubbles we buy with a whole soul's tasking—
'Tis heaven alone that is given away,
'Tis only God may be had for the asking;
No price is set on the lavish Summer,
And June may be had by the poorest comer!
—Lowell.

the office in town, and you reach the stretch of soft green grass of your home grounds, don't hesitate to yield to that call of the old days of childhood sweets, to "take 'em off," and thus once again know the joy of going barefoot!

Last season many people for the first time tried the plan of doing up their own fruits and vegetables. Of course, as is the case with beginners, many attempts were unsuccessful, but those who enjoyed the home-made jellies and canned fruits and vegetables last winter will want to repeat the experience.

At our house, we have always put up all of the canned fruits used by the family and most of the vegetables, but last season we added a few extra varieties and this season we shall add more. In these days of double duty, every housekeeper, with children and outside duties, is limited as to time. To devote a whole day or even a half of a day to canning is an impossibility except on rare occasions at our house. Last season we had our shelves well filled, and the work was done wholly at odd moments, while getting dinner or luncheon or in the early hours of the morning while the range was doing duty in baking or otherwise. I find it is much easier for me to can two or three pints or quarts of vegetables, or fruits, in this way, than to go at it in a wholesale fashion. Already (May 5) a shelf is being filled with canned asparagus. When preparing the "grass" for dinner, if there happens to be more than required for the family, I cut off the stalky part, leaving only the tender green shoots, wash thoroughly and put over the fire in a kettle, pouring boiling water over same. Salt slightly. When the water has boiled briskly for fifteen minutes, pour off all water. Have jars sterile and placed on a rack in boiling water. Put the partly cooked asparagus tips in the jars, packing carefully so as not to mash the tips, sprinkle slightly with salt and fill with boiling water. Place rubbers and caps on jars, but do not push down clamp to seal tightly. Cover the boiler in which the jars are placed and let boil for one hour. Be sure the water is boiling all the time. When ready to remove, push down clamps and invert jars until cold. Store in a cool dark place. Beans, peas and corn may be put down in the same manner, beans and corn requiring longer boiling.

In making jams and jellies, to save time, boil the fruit while getting tea, pour into a strainer and allow to strain over night. In the morning heat the sugar while getting breakfast and boil altogether twenty, thirty minutes or longer as required, pour into glasses and cool.

Of all canned vegetables we enjoy none more than the tender young beets, and we are still enjoying those which were pulled from our garden last July. The beets were planted thickly and thinned by pulling all those as large or a little larger than a thimble. The little beets were then boiled until tender, the water drained off and the beets plunged into cold water to remove the skins. The beets were then packed into glass jars and placed on a rack in boiling water. In a stew pan an equal quantity of cider vinegar and boiling water, with a tablespoonful of sugar to a pint

A WARM wind from the south, the hot rays of a scorching sun, a dry, dusty roadway, a little girl returning from school carrying a heavy coat and lunch basket, a flushed face and disheveled hair, a fretful tone of voice: "Mother, I'm so tired—and I want to go barefoot!"

The little girl after taking a cool sponge bath and changing her hot dusty clothing, wandered down across the field skipping over the soft green grass and incidentally dipping her pudgy toes into the cool brook as she hummed a joyous tune of summer days and delights. The transformation of taking off shoes and stockings and once again allowing the feet to come in contact with the soft dust of the road and the warm grass of the meadow had in one moment obliterated the trials and weariness of the sudden extreme heat of a day spent in a stuffy school room. Forgotten the wearisome fractions, dropped into oblivion the dry-as-dust history, for suddenly the world was transformed, the shackles cast off, for Freedom has cast her glory over the earth, since it is barefoot time!

I have sometimes looked into the faces of the tired, worn creatures met on city streets—business men, and society matrons, and overworked little children, and wondered if there was anything in the world which they so much need as to get out into real country and run around barefoot on the dew wet grass of early morning or summer evening. Going barefoot, occasionally, would probably tend to straighten the human foot out into something like its natural shape, and we might experience greater difficulty and discomfort in wearing the shoes which are manufactured for foot covering, but I think it would take somewhat of the tired look from the eyes, and perhaps might tend to make us a more capable and useful people. On a hot day in the city hundreds of people are seen walking, whose feet seem to be either too tired or uncomfortable, to carry them around. This is especially true of women and girls, but now that it is necessary for them to take men's places in all branches of industry, let us hope they will forever discard the extreme type of high heeled shoe, wedge shaped toe, and other monstrosities in foot gear. A few barefoot dances on the dew wet lawn or dabbings in the meadow brook will tend toward the adoption of more sensible foot wear, and incidentally help to brush the cobwebs from our brains and the weariness from our souls, at no cost. When with aching feet and weariness of spirit you wend your way up from the railroad station after a particularly trying day at

SAVE FEED MONEY

Conserve now by using IDEAL Economy Dry Feed Hopper—stops waste, keeps out rain, rats and birds. Weight of fowl on step opens door inward when feeding; automatically closes upon leaving. Roll bottom prevents fowl from hooking out wasting feed. Constructed of galvanized iron, designed for feeding whole or cracked grain, dry mash, grit, oyster shells, etc. It saves work, can't clog or get out of order. See your dealer today; write for information and literature.

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Satisfaction Guaranteed or Money Refunded

Pagel's Sanitary Non-Freezing Fountain No Lamps

Keeps water warm in winter and cool in summer. If not at your dealer, send for circular and testimonials from pleased customers.

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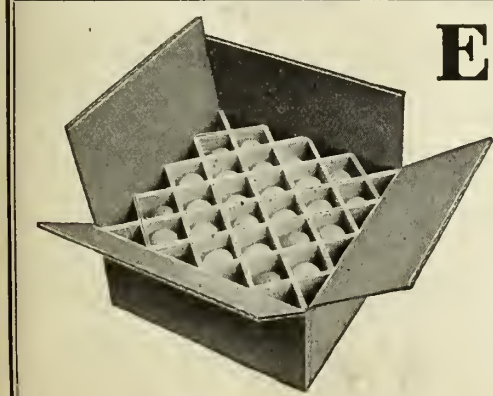
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NIXON'S WHITE WYANDOTTES

have been, are now and will continue to be Leaders. Eggs and Stock.

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Eggs Cannot Break!

The Sefton Eggsell

Ship eggs by express or parcel post with absolute SAFETY. Use the Sefton Eggsell, the new, economical and most practical way to ship eggs. No more breakage! Not one egg touches the outer wall. Protection on every side. Absolutely safe! Made of heavy, corrugated fibre board to withstand rough handling and hard knocks. Gummed tape for sealing with every box. Nothing like it ever shown before. Be sure to send for a sample if you do not order a dozen. This offer is for a limited time, so act at once. Make out your order on the attached order blank and send it today.

Sefton Manufacturing Corporation, 1301 W. 35th Street, Dept. A-389, Chicago, Ill.

Enclosed find \$..... for which please send me the following:

Quantity	No.	Size	Doz Price
..... doz.	—100—	1 doz.	at \$1.00.....
..... doz.	—101—	2 doz.	at \$1.40.....
..... doz.	—102—	3 doz.	at \$1.75.....
..... doz.	—103—	4 doz.	at \$2.30.....
..... doz.	—104—	6 doz.	at \$3.00.....
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1 Sample, 6 doz. size Sefton Eggsell 25c.			
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All shipments f. o. b. Anderson, Ind.

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and while you are at it, raise the best. It is the only kind that pays. Raise birds that will be a pleasure to the eye as well as a source of profit. There's a reason why White Leghorns are the choice of all large egg farms—it's because they lay the most eggs. You know that. Your only problem is to choose the best

S. C. White Leghorns

They are Oak Dale Farms Leghorns, because they win in the show room and produce on the nest, and our method of doing business amply protects you from all loss. Order from these prices and see what remarkable values you will get.

EGGS

15 Eggs	\$ 1.50	\$ 2.00	\$ 2.75	\$ 5.00	\$10.00	\$15.00
30 Eggs	2.50	3.50	5.00	9.00	19.00	29.00
50 Eggs	4.00	5.00	8.00	13.00	30.00	40.00
100 Eggs	7.50	9.50	15.00	25.00		
500 Eggs	35.00	45.00	60.00	110.00		
1000 Eggs	70.00	90.00	125.00	200.00		

STOCK

Cock	\$ 5.00	\$ 6.00	\$10.00	\$10.00	\$15.00	\$ 25.00	\$50.00
Cockerel	5.00	6.00	10.00	10.00	15.00	25.00	50.00
Hen	2.00	3.00	5.00	7.50	10.00	15.00	25.00
Pullet	2.00	3.00	5.00	7.50	10.00	15.00	25.00
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Pen	12.00	15.00	25.00	35.00	50.00	75.00	100.00

If you do not want to order direct from this ad, send for our handsome catalog.

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FARMS
LeRoy and Blooming Prairie, Minn.

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LOOK! Baby Chicks, \$10 per 100 up

By PARCEL POST, 97% Live Delivery Guaranteed



Brown or White Leghorns	\$11.50 per 100
Broilers	10.00 " 100
Barded and White Rocks, R. C. and S. C. Reds, Black Minorcas	
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Anconas	12.50 " 100
White Orpingtons, Buff Leghorns, Buff Rocks, Light Brahmas	15.00 " 100
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Tom Barron's White Leghorns, exhibition grade, with free feed for one month with each order	20.00 " 100
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Catalog free. Stamps appreciated.

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Quality White Plymouth Rocks

Strong and vigorous chicks that will do their bit. Do your bit by sending us your order and help win the war. 25 for \$5, 50 for \$10, 100 for \$19. Chicks and eggs from exhibition pens, also several fine cockerels for sale. Orders booked for future delivery for 25 percent of order. Give us your order now and you will not be disappointed by not being able to get them later, as the supply will be short this season.

Address, A. G. SPAHR

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XENIA, OHIO

CARBO STEEL POSTS

UNIT SYSTEM cheapest, most durable, sanitary poultry fences.



Bolt together for rigid corner, gate or end posts. Use units singly for line posts or Carbo Drive Posts. First cost of post less than wood. Made any height. Write for Booklet Today.

STRONG LIGHT, SPRING STEEL

CARBO STEEL POST CO. CHICAGO HEIGHTS, ILL.

Jacobs' S. C. White Orpingtons

Winners at Indiana State Fair, Chicago Coliseum and Indianapolis.

Eggs one-half price after May 1st.

Send for free illustrated mating list.

Frank W. Jacobs

2027 Nichol Ave.

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Great Reduction Sale

ROSE COMB

ALMY'S REDS

SINGLE COMB

Eggs from all prize matings half price after June 1st. Selected pens at two-thirds price.

RED FEATHER FARM, F. W. C. ALMY, Prop.

BOX 100, TIV. 4 CORNS., RHODE ISLAND

of beets, was boiled and then poured over the beets to fill the jars. Rubber rings and glass tops were put on the jars and the water surrounding them allowed to boil continually for two hours when the clamps were pushed down and thus sealed. The beets keep their beautiful color and fresh flavor and are as delicious today as when just pulled from the garden.

BARLEY MUFFINS.

Sift together 2 cups barley flour, 3 teaspoons baking powder, 1 teaspoon salt and add 1 beaten egg, 1 cup sweet milk, 1 tablespoon chicken fat and 2 tablespoons syrup or sugar. Put into hot greased muffin rings and bake in a moderate oven.

QUICK BUCKWHEAT CAKES.

1 cup buckwheat flour, 1 heaping teaspoon baking powder, 1/4 teaspoon salt, 1 teaspoon sugar sifted together. Add a tablespoon molasses, 1/4 cup milk and 1 cup cold water. Bake at once on a hot greased griddle.

CORNMEAL POPOVERS.

Mix 1/2 cup cornmeal with two cups sweet milk and cook one-half an hour in a double cooker and remove from stove. Add 1/2 teaspoon salt and 4 tablespoons molasses. When cool add four eggs, white and yolks beaten separately. Bake at once in greased cups or muffin rings in a hot oven. Serve immediately when removed from oven.

CORN AND POTATO MUFFINS.

To 1 cup of hot mashed potato add 1 cup sweet milk, 2 eggs, 1 tablespoon chick fat, add 1 cup sifted cornmeal and 3 teaspoons baking powder. Bake one-half hour in a moderate oven.

OATMEAL WAR BREAD.

Pour 2 1/2 cups boiling water over 2 cups rolled oats. When cool add 1 cup rye flour, 1/2 cup white flour, 1/2 cup molasses, 2 teaspoons chicken fat and 1 yeast cake dissolved in 1/2 cup luke warm water. Put in a warm place and allow to rise for 2 hours. Then add enough whole wheat flour so as to handle the dough. It will take about 1 quart. Knead thoroly and let rise again. Mold into loaves and when light bake in a hot oven for the first ten minutes, and then allow the oven to cool slightly until bread is baked.

BARLEY BREAD.

Scald 1 1/2 cups sweet milk, add one scant tablespoon chicken fat, remove from the stove and allow to become luke warm; then dissolve one yeast cake in the liquid. Sift into it, 1 quart barley flour, 1 teaspoon salt, 1 tablespoon sugar. Mix with a spoon and add 1 tablespoon molasses. Let it rise over night and in the morning mix it up again and allow to rise again. Mold into loaves and when light, bake in moderately hot oven, the same as white bread.

CHOCOLATE BARLEY COOKIES.

Beat two eggs until light, add one and one-quarter cups of sugar, one tablespoon chicken fat, one-half teaspoon salt, one cup sour cream in which one scant teaspoon soda has been dissolved, sufficient sifted barley flour to make a stiff dough. Add a teaspoon vanilla, two tablespoons cocoa, and a sprinkle of ground cloves. Drop by spoonfuls on to a greased and floured baking sheet and bake in a moderately hot oven. These are very delicious and equally as nice as white flour cookies.

SHORTCAKE.

Even tho there is little white flour being used in the average American home today, those who are fond of strawberry and other fruit shortcakes need not deny themselves this luxury. The combination of barley and rice flour makes a very good shortcake, by sifting one cup of barley and one-half cup rice flour with one teaspoon salt and three of baking powder. Mix to a soft dough with sweet cream or if milk is used add one heaping tablespoon chicken fat. Spread into a greased and floured shallow baking pan with a spoon, and bake in a hot oven until crisp and brown. Serve as the usual shortcake with crushed fruits and whipped cream.

A WORD FOR THE OLD BREEDS

Some of Our Obsolete Varieties Worthy of Special Attention.

By THEO. HEWES.

IN OUR crazy, mad rush to all get in the same bandwagon, thousands of breeders in this country are overlooking some of the best breeds of fowls that have ever been recognized by the American Standard of Perfection.

Take the leading exhibitions of today and eliminate five breeds and you would have an exhibition that could be placed in one very small room, and it would not be necessary to double deck at that.

Like all other fanciers, I have been led away and have followed in the wake of what is termed the popular breeds. But thru accident, more than anything else, within the past few years I have tried out some of the old time breeds and am thoroly convinced that they should be re-established in the hearts of the fanciers and that big classes of these breeds should be on display at the leading exhibitions.

Take one breed in particular, the old White-faced Black Spanish, which is practically obsolete today. Of the hundreds of exhibitions held thruout the United States, I doubt if five percent of them have even a single entry in this old time breed. About one year ago my son decided to try the Spanish and purchased some baby chicks. They developed into strong, healthy, robust fellows, reached maturity in about six months, the males coming to a weight of about 5½ to 6 pounds and the pullets reaching a weight of 5 pounds. They began laying in December and up to this writing, April 20, have made better than an average of 60 percent for all the females in the yard. And in making this average, they are producing an egg almost as large as the Minorca. And regardless of the fact that the few strains of this breed that are in this country today must be strongly inbred, they are giving a greater percent of fertility than either the Orpingtons, Reds or Plymouth Rocks in my immediate neighborhood. A few of these birds were placed on exhibition in Indianapolis in February and it was really surprising to see the number of people among the old time fanciers that stood by the hour admiring them. It was like finding a long lost friend. And the calls for stock and the inquiries as to price of eggs would convince me that they would not only prove one of the most profitable from a commercial standpoint of any breed that could be taken up today, but there would be an immense demand for them from a fancier's standpoint as well.

It is possible that the effort made by the fanciers to increase the length of the wattles and ear lobes and produce the exceptional enamel white in these sections has caused some breeders who were at one time interested to go out of them. And I imagine that our judges have gone too far in making these special features of greater value in awarding prizes than they are really entitled to, with the result that some superior birds in shape and general character have been left out of the money in favor of the smaller diminutive bird with the well developed white in face and lobes.

But be that as it may, with these chicks incubator hatched, shipped some three hundred miles and given only ordinary attention, I do not believe that we have ever put feed into any one fowl that has given us better results from a commercial standpoint. And if flocks of fowls are to be kept for eggs only and this feature to be made the source of livelihood for the poultryman, then if other strains of Spanish will give as good account of themselves as the one we have in our yard, it would certainly be to the interest of the market egg producer to go strongly for this old time breed. You will not only get more eggs than you do from the average Leghorn, but you get a larger egg and at the close of the season you have a hen that will dress from four to five pounds and you have one of the strikingly handsome fowls at all times for the public to admire.

Another bird, and one that is considered ornamental only, is the Polish. We have bred the White Crested Blacks and the White Crested Whites for eight years. The Blacks have been bred to Crest until they have become delicate, or, in other words, we have overdone a good thing and placed a handicap on the breed. The immense crest that has been produced on both males and females handicaps the breed as a hustler for his own feed and makes him an object for every prowling animal to pick up without effort. But in the White Crested Whites we have a more compact crest and this bird can forage as well as the average of our American birds and is every bit as hardy. Eggs hatch just as well and chicks are just as easily raised as any variety we have on the farm and as winter

21 Jewels. Adjusted to the second

Adjusted to temperature positions and isochronism.



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In our new watch book, that we will send to you free and prepaid, you will see illustrated the newest ideas in watch cases. The latest triumphs of the master goldsmiths. Notice especially the Inlay Enamel Monograms, Block and Ribbon Monograms, Lodge Emblems and Diamond Set Cases. All offered direct to you on this startling offer. Send the coupon today.

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to get out a few more chicks. They will be worth money to you this fall. To make them grow fast and strong, start them with

Blue Ribbon Little Chick Feed

For your early hatched birds, feed

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These feeds will make size and weight for you at lowest possible feeding costs.

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SPIRALETS

Mark Your Birds Distinctly Without Numbers True colors. Correct sizes

Dark Blue Light Blue Yellow Red Pink Amber Green Purple Black White



Size for	12	25	50	100	250	500
Baby Chicks....	\$0.10	\$0.20	\$0.30	\$0.50	\$1.10	\$2.00
Pigeons.....	.10	.20	.35	.55	1.25	2.25
Growing Chicks..	.10	.20	.35	.60	1.50	2.50
Bantams.....	.15	.25	.45	.75	1.75	3.00
Leghorns, etc....	.15	.25	.45	.80	1.85	3.25
Rocks, Reds, etc..	.15	.30	.50	.85	2.00	3.50
Asiatics, Turkeys..	.15	.30	.50	.90	2.15	3.75
Turkey Toms....	.20	.40	.55	1.00	2.25	4.00

Postpaid. 12 samples and circular 15c. Made by M. BAYERDORFFER HUGUENOT PARK, N. Y.

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Profit is fixed in the blood of Yesterlaid Leghorns. Their eggs are big and white. Yesterlaid are far superior to average hens—they lay better in Winter and cost less to feed. Three Yesterlaid can be raised at the cost of two ordinary chickens because they are so vigorous and quick growing. Valuable details free.



Lady Germany 480 Eggs

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The most convenient coop that ever was offered to the poultry raiser for hatching and brooding chicks. Avoid costly mistakes by hatching your chicks the natural way. Write for a circular. Special introductory offer. Agents wanted. This coop is patented in U.S.A. and Canada.

A. J. Van Ackeren, L. B. 107, Cedar Rapids, Neb.

COLLINS All-metal, fireless, safe, practical. \$3, \$4 and \$8 sizes, delivered. Exerciser and Feeder Attachment only 50c; alone by p.p., 60c. Send for circulars. Dealers and agents wanted.

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HARNLY'S WHITE ORPINGTONS EGGS BABY CHICKS BREEDERS

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IMPERIAL BUFF WYANDOTTES

Write for free booklet. Some grand breeders at reduced prices after June 1st. High class New Zealand Red Rabbits.

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AGAIN WE WIN!

BOOK YOUR ORDER EARLY

English 200-Egg Strain

S C W Leghorns White Wyandottes
S. C. R. I Reds Buff Orpingtons

"World's Champion Layers"

Our Certified Contest Records are PROOF

Our Leghorns lead at Leavenworth, 1918, defeating 500 competitors, from every state.

Our champion pullet 1104 lays 28 eggs in 31 days, in the coldest January in 98 years—beating all birds of all breeds.

Our pen No. 110, 5 Leghorn pullets, lays 105 eggs this January; an average of 21 eggs per pullet—putting our pen 30 eggs ahead in the contest to date.

Our entry of five Wyandotte hens in the North American Egg Laying Competition, just ended, won First Prize and Three Silver Cups. These hens laid 1165 eggs, having these high individual records: 294-267-221-220 eggs. Contest under government supervision.

Our Champion Wyandotte hen "Liberty Belle" laid 294 eggs, winning first prize and cup, and establishing World's Highest Official Wyandotte Record. Her sister laid 267 eggs, winning third prize and cup against 500 competitors.

Merely another proof of our success in breeding 200 egg layers. Other competition winnings:

Leghorns—Highest award North American Egg Laying Competition, 100 pens competing, five hens laying 251-250-224-222 and 192 eggs.

Rods—Highest award, in their class, N. A. Contest, five hens laying 1043 eggs, an average of over 200 eggs per hen. Highest Official Red Record known.

White Wyandottes—Missouri International Contest, ten birds laid 2006 eggs, over 200 egg average. One layer made a record of 265 eggs.

HATCHING EGGS

FINE COCKERELS

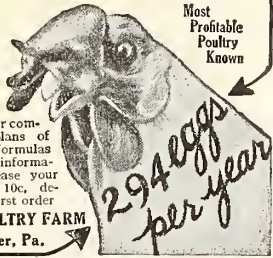
BABY CHICKS

BREEDING STOCK

Write today for copy of "The Story of the 200-Egg Hen," containing pictures of our competition winners, plans of trapnest, feeding formulas and other valuable information that will increase your egg yield. Price 10c, deducted from your first order

THE PENNA. POULTRY FARM

Box A, Lancaster, Pa.



layers they are next to the Orpingtons, and if given anything like comfortable quarters will pay for their feed during the coldest months, and did do it during the past winter, one of the most severe in this section of the country.

The White Crested Black Polish are domestic and want to be petted. The more you handle them the better they like you, but the White Crested Whites are just the reverse. I imagine that there has been at some time a pheasant cross in their make-up and while they will stand close confinement and allow you to go among them at any and all times, even coming close to them, the minute that you touch one of them they are off like a shot and no matter how much you handle them they will always set up a cry when you get them in your hands. I have had male birds in training cages for three months and every time I would put my hands on them they would cry like a whipped boy. It seems that you cannot get this trait out of them.

We have often heard people say that a strain has been inbred to the extent that it has not sufficient strength to reproduce. Our experience in breeding not only the Polish but several other varieties has convinced us that there is not any such thing as inbreeding to hurt poultry. As an illustration: Eight years ago I purchased two plain White Polish hens of really high class exhibition quality and the only male bird that I could find of that variety was the poorest scrub that one would find in a day's walk in the average yard. The feathers on his head could hardly have been called a crest. It was simply a little topknot and showed a trifle better than the average smooth headed males, but, of course, had other Polish characteristics and was in no way related to the females. That was the foundation of the strain of Polish that we have on the farm today and there has never been a drop of any blood added. Cockerels bred back to their own mothers, cocks bred to their own daughters and again to the daughters from the second and third crosses, until the average blood line is 31/32 of the original stock. And today the birds are larger, stronger, better crested, better Polish shaped and more hardy than they were at the beginning. So that we have this object lesson to convince us that instead of our birds degenerating thru inbreeding, in 99 cases out of 100 they would be decidedly better off and we would produce stronger and healthier birds if we followed it just as far as we can, for the average lifetime of a male is not to exceed four years.

WHY I BREED DOMINIQUE LEGHORNS.

By A. KURTZ, Kansas City, Mo.

FROM personal experience for the past thirty-five years I have found that there is no breed of fowls that outclass the Leghorns as prolific layers, and since boyhood it has been my ambition to originate a strain of bred-to-lay fowls and I undertook to originate a strain of Leghorns with the color and markings of the American Dominique, the oldest pure bred American fowl, and thought that any breed of fowls to hold their own popularity thru a long term of years as the American Dominique must have some special qualities to commend them.

Before the American Revolution, New England sailors brought some breed of fowls from San Domingo and thus Dominique became the name of the oldest thoroughbred American breed of fowls. In 1907 the National American Dominique Club was organized, since that time the Dominiques became very popular and have made rapid progress to the front ranks and having transmitted some of the best qualities to many of our most popular breeds of today, namely the Barred Plymouth Rocks, the first cross to produce this most popular variety of Plymouth Rocks was an American Dominique male on a Black Java female, in the year 1870, five years later the first edition of the Standard was published when the Plymouth Rocks were first bred as a Standard breed of fowls, that is, before the other varieties of Plymouth Rocks came into existence they were not called Barred Rocks but simply Plymouth Rocks. Since my boyhood days I have devoted the greatest part of my life to breeding and raising thoroughbred poultry, it would take too long to go into detail and give my experience of the "ins and outs" and the different matings I used, but I found it no easy matter to establish a breed of fowls that will breed true to feather and type, and what I am offering you now in the Dominique Leghorn is what my work has produced and it is a fact that I have learned by being almost daily with my birds and studying them that I have accomplished what I did in originating the Dominique Leghorns. I have also found by experience that it depends a great deal on the environments and good care to raise purebred poultry up to the Standard requirements.

The Dominique Leghorns mature early, are good foragers and do well in confinement; they cannot be excelled as winter layers. They were awarded the first prize at the fourth Missouri Laying Contest and they have the typical shape and symmetrical form and carriage of the Leghorn family and their Standard weight being the same; in color and barring they are like the American Dominiques and in judging, the Standard for Dominiques should be applied on color and plumage and the Leghorn Standard for weight, shape and form, etc. I have found from experience the Dominique Leghorns consume less food than many other varieties I have handled. Get a bred-to-lay Leghorn to help pay the grain bill and do your bit to help win the war.

Will You Do This?

Now that it has been decided to hold the next annual meeting of the American Poultry Association in Chicago, I wonder if you will act on the following suggestions: Cut out all sorts of entertainments, make it a strictly business meeting, and boil the work down to not exceed three days. Take the meeting out to the Lexington Hotel, 22nd St. and Michigan Blvd., where they will give you a very reasonable rate and a free hall large enough to hold all the meetings. This hotel is out of the loop district, is well and favorably known to thousands of poultrymen, the rooms are large and comfortable, while their grill is one of the cheapest in the city. For years we have been stuck up by high hotel rates in order to pay for our own entertainments, many of which we do not have the time to enjoy. If we want a banquet we can arrange it after we are in Chicago and find out how many will be there to take it in, and there is no better place to hold it than in the Lexington. For years I have advocated economy in conducting the annual meetings, and now is the time of all times to put over a real meeting without frills or fuss. To the committee in charge of arrangements this request is made, and my word for it, you will please every member who attends if you will act on these suggestions.—Theo. Hewes.

"Whatglen"

Single Comb

Black Minorcas

have no superiors in the show room or for utility purposes. Our pens are now mated and are the best we have ever owned.

Stock for Sale Eggs for Hatching

from our best matings at most reasonable prices. Write for our free catalog, the finest ever issued in the interests of Black Minorcas.

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No Odors

Kill Rats & Mice by Science

with Pasteur Laboratories Rat Virus

NOT A POISON

PASTEUR LABORATORIES' AMERICA

NEW YORK CHICAGO

EASY TO USE

HARMLESS TO POULTRY DOMESTIC ANIMALS AND MAN



Hatch by Electricity

The Lo-Glo Electric Incubators and Hovers are the final expression of the art of incubation. Absolute control of Heat, Moisture and Ventilation insures big hatches and strong chicks. All metal, fire-proof sanitary, indestructible and odorless. Write for booklet "J."

Lo-Glo Electric Incubator Co., Inc., 76 Greenwich St., N. Y. City

Natural Hen Incubator \$3

No freight to pay. Actual hen controls everything. No lamp, no costly mistakes. Best hatcher in the world. Over 850,000 in use.

E. M. Payne, III, writes: "It is the best thing I ever saw for hatching chicks."

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Thousands of other testimonials. Agents Wanted.

To reach the million mark in 1918 we will send you a Special Introductory Offer with our Free Catalog.

Natural Hen Incubator Co., Sta. H, Dept. 4, Los Angeles, Cal.

Squab Breeders Attention!

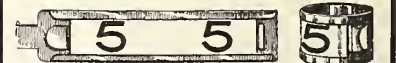
Would you invest 25 cents for several dollars worth of knowledge on Squabs? We have a limited supply of Squab books on hand which we are practically giving away. Send for your copy of "Money in Squabs," price

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623 Plymouth Court Chicago, Illinois

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Are Easy to Use. They are made with large numbers printed on colored celluloid held in an aluminum band.



They are easily read from a distance. Numbers up to 300 are printed on white, red, green, cerise, blue, yellow and pink celluloid. From 301 to 1000 on white only. Band will withstand weather and water. Sizes for all breeds; also for pigeons.

BOURNE MFG. CO.
231 Howard St. MELROSE, MASS.

CHAMPION LEG BAND



Aluminum, numbered to suit, with large raised figures. Postpaid 100-60c, 50-35c, 25-20c, 12-15c. Initials extra, 10c per letter per 100, 50 or less 5c. More than one initial with cut figures. Circular free giving price on Small Chick, Superior, Riveted and Pigeon Bands. Sample for stamp.

T. CADWALLADER Box 802 Salem, Ohio

Questions and Answers

Conducted by
Prince T. Woods, M. D.

Questions about poultry are answered in this department free for all readers of American Poultry Journal. Where answers are desired by mail, a stamp for reply is requested. Address all query letters to the managing editor, Dr. Prince T. Woods, Lock Box 4, Silver Lake, Mass.

Chicks Dead in Shell.

Q. A hatch in my incubator gave only 50 per cent chicks, the balance were dead in the shell. This has happened several times. The incubator has been in use for about ten years. My hens are S. C. White Leghorns. All healthy. Good layers, about 80 to 90 per cent at times. Are carefully fed. Two males to 18 hens. Live chickens are doing well. What would you suggest to remedy conditions?

Floresville, Texas.

B. F. B.

A. The percentage of chicks dead in the shell is much too high. A few chicks dead in shell may be expected even under normal conditions. Evidently you are feeding your breeding birds to secure heavy laying. High egg production is likely to be accompanied by weak germs, which result in chicks dead in shell. Breeding stock should not be forced for eggs. You will probably get much better hatches if you will select a pen or two for breeding purposes, feed them mainly on hard grain and greens, give very little concentrated mash, and see that the birds get plenty of exercise.

Spots on Liver.

Q. Would like a cure for my chicks, they have white and yellowish spots on the liver. They go lame and die. Have been bothered for a long time.

Pavilion, N. Y.

T. A. S.

A. You undoubtedly have disease of serious nature in your flocks. Laboratory examination is necessary for diagnosis. Write to Poultry Department, State College of Agriculture, Ithaca, N. Y., and ask them to examine a few of your hens and advise you what to do.

Intestinal Irritation—Pasted Up Behind.

Q. (1) What is trouble with chicks 4 to 7 weeks old that suddenly become unable to stand on legs and at same time throw head right up in a twisted position toward side affected with lameness? Can it be prevented? Is there any cure?

A. (1) Trouble is due to intestinal irritation. May be caused by worms, indigestion, spoiled food, soft and acid corn, etc. Prevent by careful feeding, use of reasonably sound feeding grains, and avoiding sour or spoiled foodstuffs. Do not overfeed. Keep quarters reasonably clean. For worms give chopped garlic bulb or raw onions freely in mash. Three drops of turpentine may be given in a little warm sweet milk. If due to indigestion cut down the food allowance and feed mostly on chick food and greens for a few days, feeding very little at a time. Keep charcoal, grit, fine shell and water always before the chicks.

Q. (2) What causes clogging of vent in baby chicks? Is it wrong feeding?

Greenwood, Miss.

F. W. F.

A. (2) Chicks "paste up behind" because of diarrhoea, which may be due to careless feeding, spoiled food, or to infectious intestinal disease. Trouble is frequent this year because of the considerable amount of spoiled corn which has been worked into feeds and mashes. Where food is known to be all right trouble will occur among chicks running on old ground which has been recently occupied by other broods or by adult fowls. Grow the chicks on new ground, see that they have wholesome food and are carefully fed. Give granulated charcoal mixed with the feed. Chop up dandelion leaves and feed same fresh cut daily, all the chicks will clean up. If they do not eat these greens readily mix with mash.

"Parasitic Disease of Comb and Wattles.

Q. I bought a dozen Minorca hens and a cockerel in February. On the wattle of one hen I noticed a white spot, but paid no attention to it. It has spread around the eye and the wattle seems smaller than the other. The cock has the same kind of a white spot

on his comb, starting at back part of comb. Please advise me what to do.

Columbus, Ga.

K. O. D.

A. Disease is due to parasites. Wash affected parts with warm soapy water—use good old fashioned yellow soap. Then dry thoroughly and rub in compound sulphur ointment—"Hebra's itch ointment"—you can obtain same of your druggist. A few treatments three or four days apart should be sufficient to effect a cure. Add about five per

cent flowers of sulphur to the mash for ten days or two weeks.

Growing Mash for Chicks.

Q. Would like the formula for a good growing mash for chicks from two weeks on. Want one containing some meat scraps.

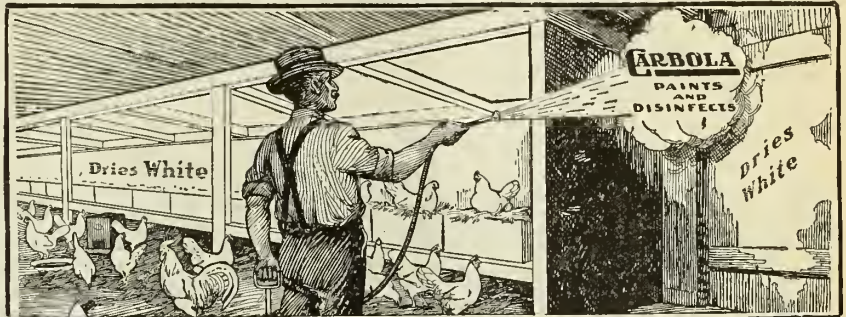
Uncasville, Conn.

R. E. P.

A. We are using a commercial "laying mash" which contains both fine beef scrap and fish meal, as we find it difficult to buy supplies of feeds for mash mixing. Equal parts wheat middlings, rolled oats (with hulls sifted out), sound corn meal, and barley meal, with ten per cent fine beef scrap or fish meal makes a good mash. Parts by weight. We are adding about five per cent ground pea meal to our mash, as we had a quantity of dry garden peas which had been damaged by weevils.

Layers Have Diarrhoea.

Q. Would like to know what to do for my laying hens, some do not eat at all, have diarrhoea, stools very thin and greenish yellow.



Dirt Breeds Disease

It is the healthy, vigorous chickens—those that are free from lice, mites, etc.—that thrive and lay eggs. You cannot have healthy chickens if their living quarters are dirty, dark and gloomy.



is a paint in powder form, that is combined with a disinfectant many times stronger than pure carbolic acid. It is not poisonous—harmless to the smallest chick—but it kills lice, mites, etc., and prevents the germs of contagious diseases from getting a start and spreading through your flocks and herds. It is ready to use as soon as mixed with cold water and can be applied with a brush or sprayer. It has no disagreeable odor and will not blister, flake or peel off.

Use it Instead of Whitewash

in your poultry houses, stables, dairies, cellars, outbuildings, etc., and save yourself time, labor and money, and get better results. Carbola is used and endorsed by thousands of poultry, dairy and stock farms, and by many experiment stations and agricultural colleges. One gallon covers about 250 square feet of wood, brick, stone or cement surface. Satisfaction guaranteed.

10 lbs. (10 gals.) \$1.00 and postage 20 lbs. (20 gals.) \$2.00 delivered
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Trial package and interesting booklet sent postpaid for 25c.

Your hardware, seed, paint or drug dealer has Carbola or can get it. If not, send direct—shipment by parcel post or express the day order is received.

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SAVE WHEAT!

Feed your baby chicks nature's food and see how they thrive and grow on it. You know how well the chicks thrive when they run at large with the mother hen—they do it on wild seeds.

MACMORE Brand Wild Seed Squab Feed

is nature's food—made up of wild grains—the seeds of weeds and native plants, the same as the chicks pick up on range, and is highly relished by penned fowl.

Send \$1.00 for sample bag of 25 pounds and circular telling of results obtained from it in years of experience.

MACMORE FARM SEEDS CO.

Dept. A, Harris Trust Building CHICAGO, ILL.



low. These hens seem very weak. Am feeding a lot of corn, but have been careful to get sound corn. Is this diarrhoea infectious to other hens through the droppings?

Catonsville, Md. J. F. B.
A. Would feed less corn and would be very sure that the corn is not sour or moldy. Stop all grain feeding for a few days. Give a mash of middlings mixed with scalded skim-milk and also feed chopped raw onions, either plain or in the mash. Return to grain ration of clipped oats, barley and a little feed wheat. Any diarrhoea is liable to become infectious, even if it starts as simple indigestion. Would look that corn over very carefully and have your State Experiment Station test a sample for acidity.

Blood in Eggs—Capon.

Q. (1) I keep poultry as a side line, don't have much time to look after them. Had 50 layers, several breeds. They have been averaging 20 eggs per day since January 1. Have had a good many broody hens since April. I feed a ready-mixed mash in open hoppers. Scratch feed before them all the time in feeders. Sometimes I find an egg with more or less blood on yolk and I found one which when broken into a saucer the white was full of blood. I dispose of all eggs, excepting what I use, to families living close to me, who come to my door for them as fast as I can get the eggs to sell. My objection to the blood in the eggs is that if my customers should get such eggs it might hurt my trade some. Would you advise me to feed less mash or to eliminate it for a while?

A. (1) Would not cut out the mash unless the hens are getting too fat. Blood spots will occasionally occur in eggs and we know of no way to prevent it. Hens which habitually lay bloody eggs can be detected by use of a trap nest, or by penning apart from flock, and such can be marketed. If you candle all eggs before a strong electric light, there will not be any danger of selling bloody eggs or eggs with large blood clots.

Q. (2) I expect to raise 160 chickens this summer, half Anconas and half White Wyandottes. I hatch and rear them with hens. Shall keep them in a yard 50x90, with plenty of grass and running spring water. Expect to keep all the pullets and the surplus cockerels will be sold when from two to four pounds. Do you think it would pay me to caponize these cockerels? The demand is greatest around Thanksgiving week and they would be very nearly all disposed of then or before that time. Will be through hatching by June 15.

Lilly, Pa. C. C.
A. (2) Unless you intend to hold the cockerels for sale until six months old or older, we do not believe it would pay you to caponize them.

For Eggs on a City Lot.

Q. What breed of fowls is best fitted for keeping on a city lot? I want them solely for egg production, not for eating or breeding. The outdoor runway is about 5x20 ft. I am considering Anconas. Please tell the objectionable points of this breed. Which are preferable, the single or the rose combs?

Is there a better breed with a high egg average.

Cleveland, O. J. G.
A. For your purpose early hatched pullets of any Mediterranean or American class breed or variety will fill the requirements. All are good layers if properly cared for. Select the variety which pleases you best. If you like Anconas, try them. You will not need to keep any male bird. Neither do you need to trouble about the objectionable points of any breed—good, healthy, utility quality, early pullets or yearling hens of any of the popular varieties will suit you if you manage them well.

Large or Small Flocks.

Q. I have read with interest "From the Pacific Coast" in May Journal which describes an intense method of poultry keeping.

We have been following the Corning system to a certain extent, but have never kept more than 150 hens in one house. As we are about to build more houses we should like to know whether or not you agree with Mr. Weeks, that hens will not do well in large flocks and if his is the best way of keeping poultry. We live in New York state where the winters are quite severe. Do you think this new method would prove the most successful in this climate? Could you suggest a more practical system?

Walton, N. Y. J. H. M.
A. The question of large or small flocks will probably always be a debatable one. There are strong advocates of both methods, and each thinks his own way is the best. As a rule, the man with only one or two small flocks will get better results per bird than the poultryman with many fowls, whether he keeps them in small or large flocks. In our opinion the chief reason for this is that it is possible and usual to give much more attention to the small flock. Fowls respond well to careful attention and feeding. It is much like the case of the family cow. One can buy a cow from a dairy herd, which is not keeping up to the herd average in yield and is unprofitable to the milkman. The same cow, as the family cow, will respond rapidly to the greater attention and soon be yielding much more milk.

On our farm we often have both large and small flocks. Personally we prefer a flock of 100 to 150 hens, with from 5 to 7 males running with flock in breeding season, housed in a 20x20 open-front house. Such flocks have averaged to give as good returns per bird, in both egg yield and fertility, as small flocks of 15 birds each, same sort of housing and care in each case. Of course if one is breeding for exhibition quality, and not keeping the fowls for market eggs, small select matings are essential. We always make a few small matings of choice specimens each year.

"Playing the Glad Game."

Q. About three years ago I read an editorial of yours in American Poultry Journal on "Playing the Glad Game" in which you mentioned a book. I would be glad if you would advise me where I could secure a copy of the book.

Sunny South, Ala. C. F. E. M.
A. The book is "Pollyanna" by Eleanor H. Porter, published by L. C. Page & Co., Boston, Mass. If you want to read another good book which also carries the same sentiment, "just be glad"—no matter what troubles seem to happen—get a copy of "The Secret Garden" by Frances Hodgson Burnett. We do not recall publisher's name, but any bookseller can supply you with these books and they will be found in most public libraries. Both are particularly fine books for present day reading and may be read with profit by anyone, young or old.

Heavy Laying Goose.

Editor A. P. J.—I wonder if any readers have any records of the number of eggs a Toulouse Goose will lay before she evinces



Buff Orpingtons

Buff Minorcas

The Strains of Quality

If You Want to Win Color Special Next Show Season June Is the Month to Produce Them.

Experts agree that JUNE hatched BUFFS will always develop into better colored birds. **Half Price Sale On All Adult Stock.**

Even some of our finest Exhibition and Breeding Birds go at HALF PRICE. Why waste money and time with the ordinary kind and put high priced feed into them, when you have an opportunity to get Standard bred fowls at half price. JUST THINK. Take advantage of this sale by ordering early.

We have Purchased Lindgren Brothers Buff Minorcas

—the entire flock—which in addition to our already strong flock gives us undoubtedly the greatest flock of BUFF MINORCAS in the world. Lindgren Brothers, Kingsburg, California, are the Originators of the BUFF MINORCAS. They have been breeding them in line for a number of years, also have made sensational winnings all over the western coast including Panama Exposition. Lindgren Strain as well as our own Strain have been the foundation blood for the other good flocks all over the world. Few really good flocks exist that are not wholly or partly Lindgren or Walhalla blood lines. Our matings for 1918 are the finest matings ever put together, they have no equal. Owing to the rapid growth and quick development of Buff Minorcas there is plenty of time to hatch prize winners. Pullets begin laying when very young. To help every one to get a start in this wonderful new variety we will sell EGGS FOR HATCHING at extra low prices. Here is your opportunity to secure the very best quality in Buff Minorcas either in Eggs or Stock. If you want the best there is in Buff Minorcas, write us.

EGGS! EGGS!! EGGS!!!

Eggs from our \$15 and \$10 matings as they run now for \$5 per 15 or \$8 per 30. From other fine quality matings \$2.50 per 15, \$4.50 per 30, \$6 per 50, \$10 per 100. We will ship eggs by parcel post, and pay the postage.

PRICES ON 8-WEEK OLD CHICKS:

	From Exhibition Matings	From Quality Matings	Utility Quality
1 Cockerel	\$25.00	\$15.00	\$10.00
4 Pullets			
1 Cockerel	40.00	25.00	16.00
8 Pullets			
2 Cockerels		45.00	30.00
16 Pullets			

Don't fail to write for our Summer Sale List, it's free.

NOTICE—Every Buff Minorca Breeder who joins the International Buff Minorca Club during June and July of this year, we will send with every setting of eggs ordered from us during that time several extra eggs gratis from our best pens. Mail the Secretary, Mr. Walter C. Young, Dayton, Ohio, R. D. 16, your application for membership today. One dollar pays up for one year.

Walhalla Poultry Farm

Carl E. Schmidt, Owner R. 1, Oscoda, Mich.
Edw. F. Schmidt, Poultry Manager

EGGS BUFF PLYMOUTH ROCKS STOCK

The Old Reliable Breed for Eggs and Meat. They Lay, Weigh and Pay.

WINNINGS: Chicago Coliseum, 1917, 1st cock, 1st young pen, 2nd and 3rd pullet, 3rd cockerel, 3rd hen. Boston Quality Show, 1918, 1st pen, 1st, 2nd and 5th cockerel, 1st, 2nd and 4th pullet, 3rd, 4th and 6th hen, 1st cock. Championship Male, Championship Female and Best Display.

EGGS FOR HATCHING, \$5 PER 15. 25 choice breeding cockerels and pullets for sale, \$5 to \$25.

FRANK J. NUTTING

BRANDON, VERMONT

PARTRIDGE ROCKS

Madison Square Winners. Year after year they sweep the show. Eggs, Show and Breeding Stock for sale. Send a stamp for either Partridge Rock or Turkey catalog.

BRONZE TURKEYS

BIRD BROTHERS

BOX C

MEYERSDALE, PA.

a disposition to sit, also how many she will lay during the entire season. The reason of this inquiry is that we have this year what we consider a remarkable goose who up to the time of this writing (May 8) has laid exactly 40 eggs and is still "going strong" with no indications as yet of becoming broody. This fowl began laying February 23rd and for a short time laid at the rate of an egg each day until about the middle of March when we began to wonder if this steady production would affect the fertility of the eggs and stopped the daily feed of wet mash she had been receiving. Since then she has laid every two days and all the eggs so far have hatched well. The first four laid were infertile and of the remaining 20 which have hatched so far all turned out a husky gosling except two. We set the eggs six or seven under our White Wyandotte hens. The nests were made in the corner of a building with a dirt floor which is always a little damp. To this we attribute the ease with which the goslings broke thru the shells, not one requiring any help at all. In fact we let the hens strictly alone until they emerged from the nest leading the goslings behind them. The nearest our goose has come to sitting occurred the last of April when she laid no egg for four days and being afraid she would begin sitting we shut her out of the small brood coop in which she had made her nest. Upon the fifth day we were surprised to see that she had made another nest upon the ground nearby and had begun laying again. Come on now all of you goose experts and tell us if this is an unusual record or but just an average one. Also what chances have we of establishing a strain of heavy layers from this bird and how would you go about it. I must confess that we are but novices in this business of breeding geese. Indiana. Maurice H. Decker.

(Note—This appears to be an unusual goose. Will some of our readers interested in geese come forward with their experience? —Ed. A. P. J.)

Hatching Eggs Will Stand Sea Voyage.

Q. (1) Are eggs still fertile after a sea voyage?
 A. (1) Yes, eggs will stand a sea voyage all right. Many eggs for hatching are successfully shipped across the ocean. Fertility is not affected. Chicks have been hatched under hens and in incubators on ships at sea.
 Q. (2) What is the Hogan method?
 A. (2) The Hogan system is a copyrighted method for selecting the laying hens and for estimating the probable laying capacity. The whole system is contained in a book on Hogan system which may be secured of American School of Poultry Husbandry, Box 206, Leavenworth, Kansas.
 Q. (3) I am in the tropics and have tried to raise Leghorns. With all care the mortality of chicks up to three months old was about 60%. Is this caused by climate or is the mortality as high in U. S. A?
 A. (3) The high mortality of chicks is unusual. Climate may have something to do with it, but we believe that spoiled feed and vermin are much more likely causes. It is difficult to rear chicks in excessively hot, humid weather, or in seasons when days are hot and nights cold. Comfortable coops, which can be kept dry, clean, vermin free, sufficiently cool and always well aired, are necessary. Feed must be sound, sweet and wholesome. Drinking water should be clean and cool and renewed often.
 Q. (4) Is it necessary in a brooder house with say 20 hovers with lamps, to have also a separate hot water pipe system or anything similar to heat the house as well? Or could a hot water system be utilized to heat also the brooders? In this case how could the heat be graded in different hovers?
 Military Camp, Trinidad. L. H.

A. (4) An auxiliary pipe system is not necessary where individual lamp brooders are used, except possibly in very cold climates. The pipe system can be used to heat individual hovers, each governed by a regulator. Several pipe systems are now built so that the pipes are used to heat the air which delivers fresh heated air to the hovers, the supply being regulated by a regulator on each hover and by ventilators. The coal burning colony brooder stove would be a good system to consider for your climate. The outfit and the house required are not expensive.

The Forced Molt.

Q. I have a lot of Black Minorca pullets and yearlings that have been laying satisfactorily since February. Eggs are hardest to get here in October, November and December. I want to force these hens to begin and finish their molt by the first of September. From June to September it is quite



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White Wyandottes	4.25	8.25	16.00	80.00	
S. C. White Leghorns	3.50	6.75	13.00	65.00	
S. C. Brown Leghorns	3.25	6.25	12.00	60.00	

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Address, J. R. HUDSON, Hardin Springs, Ky. We have saw samples of Mr. Hudson's printing. It is very nice; he is perfectly honest.—EDITOR.

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Eggs and Stock of above varieties.

C. C. NYE, R. R. 1, Box A, HARRISTOWN, ILL.

hot and dry here. Poultry never require shelter at any period of the year. How shall I proceed to compel these birds to begin and finish their molt by September 1. Any instruction which would lead to success in accomplishing what I suggest, would be likely to revolutionize poultry keeping in this section. This place is immediately across the Rio Grande from the Mexican State of Coahuila.

Eagle Pass, Texas.

D. E. H.

A. We do not approve of the "forced molt" as usually attempted. The following plan may prove successful. Much depends upon the season and on local conditions. About the middle of June turn your birds out to pasture on a fairly large range. There must be ample green food or forage, or you must plant a supply of quick growing greens for the birds to pasture on. Discontinue the regular ration and give the fowls only one light feeding of oats daily. If forage is abundant, cut this feed of oats down to about 3 quarts daily per 100 birds. Continue until about the fifteenth of July. Supply plenty of cool drinking water and watch the birds to note condition. If they are not keeping in fairly good order more grain may be fed; if they are getting plenty of forage and do not seem very keen on appetite, cut down the oats. About July 15 begin giving light feedings of boiled potatoes made into a crumbly mash with wheat middlings. From this work up gradually until in two weeks time you have them on regular daily ration of laying mash and hard grain. Feed plenty of greens. Cabbage is a very good vegetable food for use at this time, feed it raw.

We put a large flock on woodland range last summer and did not feed them for a few weeks, then gave scanty feedings of oats as they were cleaning up the forage. This was followed by mash, once a day, of boiled potatoes and middlings. From this we worked up gradually into full grain feedings and daily laying mash. Result was a good clean molt and an exceptionally good fall and winter egg yield. Shade is very important for a summer flock on pasture. In your climate sufficient shade will be doubly important.

Dark Fluid Droppings.

O. Part of my young chicks, from 3 to 8 days old, become sick. They have a diarrhoea of almost black fluid, with now and then a whitish streak. They are very weak and have an empty crop. This is my first experience of this kind. Would like to know how to prevent it.

Walker, Iowa.

C. A. H.

A. Trouble is probably due to spoiled or sour food. May be caused by spoiled corn or meal from soft corn. Prevent trouble by feeding only sound sweet grain to young chicks. Do not feed moldy, soured, heated, or otherwise spoiled grain to small chickens. Let the little chicks fast for 24 hours.

Then give scalded sweet milk thickened to creamy consistency with boiled white flour. When they show improvement feed good sound chick food, chopped dandelion greens, and mix granulated charcoal with their chick food.

Hoarded Flour Seized.

Flour hoarders will be severely dealt with during the world wheat shortage. Every pound of flour in the warehouses of the Copeland Grocery Co., Elberton, Ga., has been taken over by the United States Food Administration and distributed to dealers in Atlanta and nearby points.

It was found that this company had on hand 5,000 barrels of flour when only 200 barrels were needed to supply its normal needs for 30 days.

POULTRY KEEPING ON MID-WEST FARMS.

By J. E. MOORE, Princess Anne, Md.

SEVENTY-FIVE per cent of the poultry and eggs produced in this country are said to be produced on the farms, as a side line by the farmers' wives, and they have an up-hill pull of it to get enough feed for the poultry to eat, and a leaky roof to cover them at night. As a rule, all the farmer has to do with the chickens is to throw an ear of corn at them when he finds them in the barn, or in his way, and to pick their bones at the dinner table and grumble about the amount of grain they are eating. For five years I stopped on a fair average at fifteen farms a day in the central west, and saw at each farm the conditions under which the poultry was raised, and feel that I am well enough informed from actual investigation to state the conditions as they exist on the average farm in the middle west. Conditions equally as bad exist in the east. If you will make a house to house canvas of the farms for just one day through some rural section, I think you will find similar conditions. Of course you will occasionally find a farm with a modern poultry house, and a flock being kept and housed under sanitary conditions, but you will find them few and far between unless you happen to go thru some section that is specializing in poultry raising. The sections I refer to, are in the grain and general farming districts. Following are the conditions as I found them: Flocks of mixed birds crossed and recrossed until the flock looks like a crazy quilt. One could see breed characteristics of everything in the poultry line from Light Brahmas to Bantams, from Langshans to White Leghorns. Occasionally some enterprising wife would try to build up the flock by buying a standardbred cock bird of some variety, usually a Barred Rock, allowing it to run and cross at will with the motley bunch of hens. In size, they would range from a six pound hen to a Brown Leghorn Bantam cross that would hardly weigh two pounds.

They were allowed to roost where they pleased most of the year. Those that preferred the so-called hen house could roost there, and those that wanted to roost in the trees or on the manger in the barn, or the binder, or the buggy top, were allowed to do it until cold weather came. Then they were caught and put in the hen house and shut up tight at night, with no ventilation of any kind, and with not half enough roosting room; compelled to crowd, and to breathe foul air all night, and if there was snow on the ground, breathe it all day, and roost over a pile of droppings that had been accumulating for months.

The house allotted to the chickens was usually one not fit for anything else, and eight out of ten times had a leaky roof.

Once a year, usually in the early spring, this house got its annual cleaning, as by that time the droppings were almost to the roofs and the farmer needed them to top dress the pasture land. The dozen orange and soap boxes that answered for nests were taken out and the nests cleaned, and sometimes smoked, refilled, carried back, and placed on the floor in the house again ready to do another year's service, and in due time be alive with lice and red mites as were the roofs and most everything else about the hen house.

I have been in poultry houses in central Illinois, where land is worth three hundred dollars per acre, and where they pride themselves on modern farming methods, where chickens had died on the roofs, fell to the ground, and lay there rotting on the droppings and the poultry roosting over it.

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Lice—Mites—White Diarrhea—Cholera—Leg Weakness—Chicken Pox—Cannibalism—Feather Eating—Bowel Trouble—Colds—Sore Head—Canker—and Roup are a few of the profit killing ailments which may affect your chicken raising efforts—and which in the majority of instances could have been avoided with a very small investment of time and money if—the ounce of prevention had been used instead of waiting until the pound of cure was needed.

If you are willing to profit by the experience of a man who in 30 years of practical poultry work has solved most of the "profit killing" faults of poultry raising, you are invited to go to your dealer and ask him for the Lee Booklet entitled "Secrets of Success." It's free and it is yours for the asking.

If your dealer is out of Lee Booklets—or if there happens to be no Lee Dealer in your town—write to us direct—telling us your dealer's name, and we will mail you this valuable booklet, "Secrets of Success," by return mail—free.

GEO. H. LEE COMPANY, 302 Lee Bldg., Omaha, Neb.

Day in and day out I found conditions the same, outside of cleaning out the house in the spring, the work done with poultry was by the farmers' wives. Only in cold weather when there was snow on the ground did the hens receive a regular feed and sometimes not then; they were compelled to shift for themselves and find feed the best they could, by stealing a few grains from the hogs at feeding time, by following the cattle, or perhaps by stealing into the corn crib, or scratching for it on the manure pile!

When a hen was lucky enough to get more food than to keep down hunger and supply the body wants and would lay an egg, she was just as likely to go to the straw stack or the fence corner or under the barn to lay it as she was to go to the poultry house. When the egg was found, it was stale and unfit for food, but many times found its way to the grocery store.

If every farmer would just set aside two rainy days each year, when he can't work in the fields, to improve the poultry house and conditions in general for the flock, what a change could be made. Fix the roof, build suitable nests, put in ample roosts and if the house is too small to accommodate the flock, there are odds and ends around every farm that could be used to make it larger. Buy a spray pump and spray the roosts and cracks with kerosene; keep it up until you have exterminated the lice and mites; make it a duty to clean the hen house just as regular as to clean the barn and the cow stables.

Plant a piece of rape or clover near the house for summer feed and some rye for winter greens, throw out grain to the fowls with a liberal hand and note the difference in the returns from them, and you will see what you have been losing by the slipshod, catch-as-catch-can method that has been used in caring for the farm poultry flock. With sanitary conditions in the roosting quarters you will eliminate loss by disease to a large extent. Give the wife a fair chance to show what she can do with poultry, give her what grain she needs, buy her a dozen or so standard-bred fowls to start with, so she can cull out the scrubs, and have a flock that will look all alike; or at least get her a few sittings of eggs from Standard-bred fowls. You will find they will be sturdier, look much better and lay more eggs.

A CAMPAIGN AGAINST POULTRY HAWKS.

A Prize is Offered for the One Killing the Largest Number of Hawks by March 1, 1919.

By D. A. RICHARDS, Wake Forest, N. C.

WHILE so much is being said in regard to conserving food I would like to add a few words. There are a great many ways in which we may conserve food. The housewives are saving food by adopting new methods of cooking, the mills by new methods of milling, but there is an important method of food conservation in which every farmer and every poultry keeper can lend a hand and yet I have not seen a word about it in the farm papers this season. I refer to saving young chicks from hawks. There is no doubt in my mind that thousands of dollars worth of young chicks are killed by hawks every year and still the farmers do not destroy the hawks as they should.

Now I want to get the American Poultry Journal to assist me in a campaign against the hawk. Let us get together and determine the amount of damage to poultry raisers by hawks each season and the best methods of exterminating them. I have a method which has worked well with me and I believe it will work as well for others and pay for itself in a short time in the number of chicks saved.

What is more annoying than to have hawks begin to carry off a nice brood of chicks after they are two or three weeks old, taking them one by one until they are all gone? I had one brood of forty last year and hawks carried off 27 of them in a week or so, before I could stop them. Since then I have been studying Mr. Hawk a bit and I will now relate the little stunt I am working on him this year.

I take a pole about fifteen feet long and about two and one-half or three inches in diameter at the little end. I saw it off smooth and fasten a hawk trap on the end of the pole and then put it up where I think the hawk is most likely to light. Usually a low place or by the side or corner of a woods is a very good place. I set three traps in this way three weeks ago and I have caught three hawks. Down by the pasture is a fine place to set the traps. That is where I caught my three hawks. The fence post is a good thing

to fasten the pole to. I want to ask every farmer or poultry keeper in the United States to purchase at least three good hawk traps and set them on a post as described above. They will not cost more than fifty cents and it is not possible to make a fifty-cent investment which will pay better. Let everybody in country districts set traps for hawks and if that will not work with the old and crafty hawks, get the shot gun out and sit around and wait for him about his usual calling time. They have a habit of coming a little earlier each day. Let each one try to interest his neighbor to set traps for hawks. I am endeavoring to get my neighbors interested for I have given traps to each of my neighbors and believe it will pay me. The man who raises a good many chickens will do well to buy a dozen or two traps and give them around among the neighbors who will take the trouble to set them for hawks.

To encourage the campaign against hawks I will give one \$5.00 sitting of S. C. Ancona eggs to the one who catches or kills the largest number of hawks between now and March 1, 1919, providing they send me their names and addresses by June 15, 1918, announcing their intention of entering the contest. Number of hawks killed must be reported by March 1, 1919. The eggs will be shipped to the winner March 15, 1919. The method used in capturing the hawks must be described and these will be published in American Poultry Journal for the benefit of all poultry raisers.

Combined Orpington Show.

The last meeting of this club was held at the Coliseum in Chicago, a day earlier than it had been scheduled, and as a result I was not present, as I had arranged to arrive at the show the day of the meeting.

Upon my arrival, I found that all of the members who had attended the meeting were full of enthusiasm of the proposed plan to consolidate all the Orpington clubs, and at the request of Secretary Gensch, I agreed to see what could be done at the Madison Square Show which followed. Mr. Rawnsley and the writer got several of the other officers together, with a result that an organization committee was formed for the purpose of holding a combined show of all varieties of Orpingtons at some winter exhibit next year. Since this organization, both the Single Comb and the Rose Comb White Orpington Clubs have approved of the arrangement of holding a joint show and both will undoubtedly send representatives to the meeting, which will be held in conjunction with this show to

effect the organization of an All Variety Orpington Club.

Mr. Andrews, of Miller, Neb., in reply to the invitation to join this movement, writes as follows:

"I am in receipt of your favor with the report of your meeting at the Garden and want to thank you for same, and will further state that the writer is very much in favor of an all Orpington show and am with you and more than willing to co-operate in any way I can. Have taken the matter up with Mr. Martz and Mr. Delafield and am sure that both parties will favor just such a plan.

"Will also go on record as being in favor of the consolidation of all Orpington clubs under one head, as the writer is satisfied it would do more to boost the breed regardless the variety, as we are all pulling for the breed, with some favoring one color and some the other.

"If at any time I can be of service to you, I am at your command."

There are many reasons, of course, why such a club will be more effective than the half a dozen small clubs now in existence. In the first place, a much larger and better year book could be published. The expense of one year book of a larger size, instead of half a dozen small ones, would, of course, be very much less. A paid secretary would, no doubt, be employed to look after the interests of all varieties. This man would undoubtedly be an unbiased man, non-breeder of any Orpington, but a man who could be relied upon in a way that would bring to the attention of the public the splendid qualities of the Orpington.

If you have any comments to make that you think would be of assistance to this club, you are invited to write them to the Secretary, so that the officers of the club may be guided by your wishes in reference to this consolidation.

—J. I. JILL.

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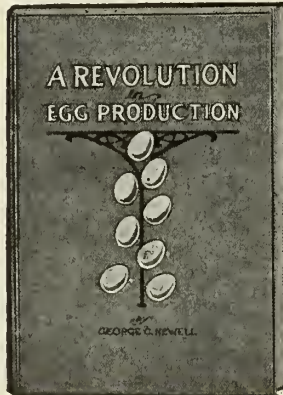
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FROM THE PACIFIC COAST

DEVELOPING PULLETS FOR HEAVY LAYERS.

By CHAS. WEEKS, Palo Alto, Cal.

TO MAKE each year's pullets better than the parent stock is a difficult task. To do so requires the most exact selection of the parent stock for vigor and prepotency with due regard to maturity and prime condition. Pullets must excel parent stock in order to make progress in developing a strain. This parent stock must be correctly mated with long years of breeding behind both male and female and the matings must not be closely related and should be of mature age. To make a correct mating excel itself in progeny requires a condition in this parent stock that is the very best possible. The parent stock must be at the zenith in condition, at the climax of the highest moment of their existence in order to stamp superiority in the young.

Sunshine, fresh air, plenty of exercise, clean quarters free from dust, and pure, wholesome food constitute the environment that will be conducive for best results from well mated birds. Do not feed wet mash or sloppy

feeds to breeding stock. Selection and conditioning of breeding stock is the first essential toward producing better pullets.

So much for the starting of this well bred pullet. The egg from which the well bred pullet comes must be very carefully and exactly incubated or the pullet will be handicapped for life. Here is where the very finest adjustment and care is necessary or that strong germ in the egg will meet obstacles in the way of its development that will hinder natural progress. The temperature should be kept as regular as a clock, between 102 and 103 degrees. The egg must not be chilled in cooling nor over-heated one single time during incubation. Too little moisture weakens the germ and too much makes the chick too large to get out of the egg. Incubation requires the closest attention and exactness. Any one can hatch chicks. It is very easy to hatch chicks. But to do it without injury to that tiny, tender, growing germ or embryo is a very difficult and careful piece of work.

No careless person can afford to attempt incubation. A well bred chick correctly hatched and you have a good foundation upon which to build a profitable layer.

Thus if this well bred chick is naturally brooded with plenty of sunshine and fresh air during the period it needs artificial heat, with clean quarters free from dust, then it has a good start in life and can be grown into a profitable hen.

At three or four weeks of age the chicks should be taken away from artificial heat and divided into smaller flocks, the cockerels and pullets being separated. Right here is where my small pen system proves its superiority. We move them from the heated pens into pens exactly the same in every detail except they are without heat. The chicks climb up, always up, for they have the climbing up habit from the start, to the roosting platform as usual, and being divided into smaller flocks are in no danger of piling and sweating, for we never place more than fifty together into one compartment. These have a clean bed of straw to snuggle in and if the weather is too cold we throw some sacks over the two perches above them and let them hang down over the chicks. Fifty chicks in a clean bed of straw up on this dropping board two feet from the ground floor will snuggle together with each little head out to the fresh air and will seldom if ever smother a single one.

The sooner the chicks can do without artificial heat the better, for artificial heat after a certain age tends to weaken and lessen the vigor.

One by one they take to the perches of their own accord, for the perches are right above them as they huddle in the clean straw, and it is surprising how quickly they line up. I have six thousand this year taking to the perches with no trouble at all. When I look over the worry and loss of previous years in trying to get chicks to the perches I draw a long sigh of relief to think that I have at last solved that hardest of problems for the poultryman, the getting of young stock to take to the perches. As soon as young stock takes the perches we usually think they are just as good as gold. Of all the inventions that have been tried to get young stock on the perches this scheme of teaching the baby chick right from the start, the going up habit beats all that I have ever tried.

We have followed this well bred pullet from the parent stock up to three or four weeks of age. If she has had every essential in each department passed through she now has clear sailing and it is only a matter of clean quarters, clean water and a wholesome variety of clean feed, with the emphasis on clean. It is the biggest mistake to take clean feed and throw it into filth for the pullet to eat.

This eight foot square pen is the little world of these fifty pullets until they are ten or twelve weeks old, when they fill the two perches and must again have more room and are divided into two pens, making twenty-five to the pen. On the outside of this pen is a feed trough under the projecting roof which extends over three feet and keeps out the

rain from blowing too much into the open front. The pullets eat from this trough by sticking their heads through an opening. Thus they can not get into the feed with their feet and must take it in the cleanest way possible. They also have a feed hopper upon the side of the wall that holds a sack full of dry mill feed in one compartment and a sack of mixed grains in the other. The platform to this hopper is eighteen inches from the floor, so they must jump up to feed. They must also jump up to the perches above the dropping board, and this continual jumping up and down gives them exercise as well as entertainment. The water bucket sets on the outside with the feed trough so that no doors need be opened in feeding and watering.

The dry mash is composed of four parts ground wheat, one part ground corn, one part ground oats with hull sifted out, (when not too high) one part beef cracklings, half part soy bean meal, half part linseed meal, half part charcoal. Many would say that this is too rich for young growing pullets, but where they have a mixture of grains in the compartment of the hopper adjoining they will eat only enough of this dry mash to balance their ration. The feed trough on the outside is filled twice daily with fresh, crisp green feed. This can be alfalfa, kale, green barley, beets, cabbage, chard or rape, and the greater the variety the better. Be sure they have this green feed 365 days in the year, including the fourth of a day. Don't under any circumstances attempt to keep hens without plenty of green feed. To have that in California means that you must irrigate. And you must have your poultry ranch located where water is cheap or you can never succeed. If you have no water for irrigation, and plenty of it, sell out and I will tell you where you can get as good land as lays out of doors with all the cheap water that is needed for irrigation. Too many fail for want of the right location. For goodness sake, do not attempt to raise poultry on a dry, poor, barren place, for it cannot be done. I know, for I tried it early. You must have plenty of water or the time using it will not pay for the results. There is plenty of good cheap water near good markets if you will find the right locality.

This little eight-foot square pen with open front forms the little world for these growing pullets and here they stay during their first laying year. They have everything before them to eat all the time and all the fresh air and sunshine and a deep sandy ground floor to roll and dust in, and are absolutely better off than any hen that ever roamed the wide world outside. They eat, drink and grow, and when they arrive at the laying age it is simply a sociological principle; their mind is on their business, eat, drink and lay; that's their daily routine. They have no other amusement and can specialize. They eat to digest, and digest to lay, and as their parents were heavy eaters before them and made eggs out of their food, they have that tendency and have it accelerated. Each year the tendency to digest and lay grows because habits make tendencies and tendencies in time become traits.

We must remove every obstacle that would hinder the development of this well bred pullet from the breeding stock to the day the first egg is laid. System, method, exactment and a fine adjustment pay in the breeding of heavy laying hens.

We have made wonderful progress in developing heavy layers in all parts of the world in the last ten years. The 200-egg hen is no longer a marvel. We are already to the 300 mark and still progressing. Will there be a limit? When we cease to wonder at the 300 hen will there be a 400-egg hen to create new sensations? I believe there is no bounds in development. Evolution is a wonderful process and with the plastic White Leghorn hen man can have an absorbing game in watching the advance from year to year.

Hotels Pledge Wheatless Days.

The first wheatless-till-harvest pledge was taken by 500 leading hotel men who gathered from all parts of the country for a conference in Washington, March 29. After the world food situation and the crying need for wheat in Europe had been presented to them, the hotel men pledged themselves with practically no exception to forego the use of wheat in their establishments until next harvest. Thus was started the wheatless roll of honor.

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(EGGS IN WINTER) and do it. Best days laying in winter by 400 pullets, 324 eggs, you can do as well. Tested 10 years. Chicks, GUARANTEED FERTILE hatching eggs and stock, at let-live prices

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Exhibition, Breeding and Foundation Stock, Line Bred and Trapnested

Hatching Eggs half price from June 1st to July 1st. Write for free illustrated mating list giving prices and description.

Mrs. E. B. Martin

RANCHO DEL MARTINO

P. O. Box N, Downey, Cal.

PROFIT IN SURPLUS COCKERELS—THE WAY TO DO IT.

By GEORGE BEUOY, Cedar Vale, Kans.

EACH year half the chickens raised are cockerels. It is impossible to use all these for breeders, or even to eat them all at the tender acceptable frying stage. On that account these extra cockerels are quite often sold at a loss, and in many instances this loss is sufficient to make the chicken business a failure.

The wife and I soon found that if we were to make the chickens pay on our farm we must make the male half of our flock profitable, and that is exactly what we have done and I know that any other poultry raiser can do equally as well, and much easier, at this time, than it was for us ten years ago.

The way to do it is to make capons of the male half of the flock just as soon as they are large enough. Or at least turn all the male birds into capons that are not needed for breeders and immediate table use.

Especially the late hatched cockerels should be caponized. By the time these late hatched males are ready to sell as fryers or broilers the prices are so low usually that they will not pay for the feed consumed. On our market it is very seldom that I can get as much as 30 cents each for them, often less than 25 cents each. Yet these same young roosters made into capons bring me from \$3 to \$5 each, along in March, sold as capons. Even if feed is high they make me good money, often \$1.50 clear on each capon, depending on market conditions, and I look for the market to

be higher this coming spring than ever before.

One big reason for the high prices is that capons reach the market at a season when all other fresh poultry is very scarce and high. That is in February and March, the time when the capons get mature and ready. At that time no live hens, comparatively, are going onto the market, for the simple reason that any poultry raiser who has gone to the expense of wintering a flock of hens is not going to sell them just at the time they are beginning to lay the best and when eggs are still quite high. Only cold storage poultry is really available at that time, as it is too early for spring hatched chicks. The capon has made a profitable growth up to that time and is just right to sell, and the grower cashes in to his own advantage at that time. In years passed we often got 40 to 50 cents a pound and no telling how high they will be in the future.

Surely it is patriotic to make a ten-pound capon from a two-pound rooster and that is easily done if the birds are caponized before they reach two pounds in weight. If of good stock they often get much larger. I have had many weigh up to 14 pounds each.

When they are like a quail in size and appearance is the best time to caponize. That should be (in the American breeds) when they are more than six weeks old and not over two months from hatching time. We have been making capons for twelve or fifteen years. When we commenced there were no good instruments to do the work. Now capon tools have been perfected so that they work "automatic" and a child can do it just as well, and often better, than a grown person.

I have one girl and three boys and any of them can make a capon just as quickly and just as perfect as their mother or myself and any of them could do it before they were ten years old and without any special instructions other than came with the instruments used in doing the work.

When I first commenced to make capons I had to condition the bird by seeing that they were off feed for 36 hours before operating. That is still necessary, but it is not necessary at this time to use heavy weights to hold the birds like I had to do at that time. A capon bow is now used for that purpose, and it is much better in every way. With a capon bow the bird is placed just as you desire it and can be turned over or moved to get the best light with perfect ease and without loosing weights or hurting the bird in any way. The trouble with a weight is that no two birds are of the same strength. If the weights were heavy enough to hold a strong bird they would just about tear a weaker one in two, and if light enough for the weak birds they would let the strong bird injure himself by flapping at the critical moment.

With the capon bow you have control of the bird in every way and stretch him just right and there is no possible way for it to flap loose or injure itself. Besides the capon bow, a testicle remover is required and the automatic type with two hollow and beveled loops is by far the best. These allow you to see the work and small chance to make a mistake. The kind I commenced with had a crooked handle and a solid lip underneath the grasping jaws and often caused trouble, besides being expensive, much

GEORGE BEUOY

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"THE MAN"

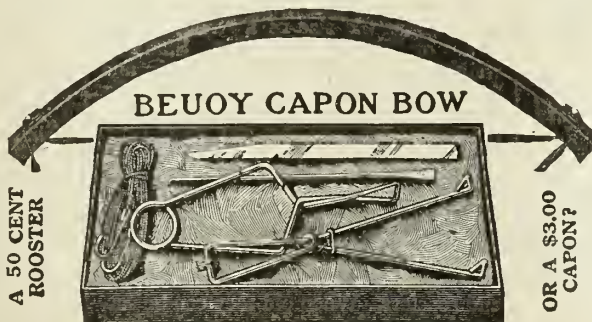


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Which Shall it Be

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Let me explain how to do it. I have this information all illustrated and printed in a nice little circular that I will be glad to send you free of cost. It tells how I make money with capons. Send me your name and address plainly written and I will send it to you by return mail.



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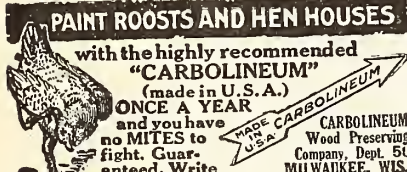
more so than the present tools that are so near perfect. Some sort of spreader is also very necessary and it should be of the type that you open with pressure yourself and not depend on a spring to open it. The three tools, a pocket knife and fine wire hook is all you really need.

Caponizing is much more popular now than when I started. Almost every neighborhood has some one making

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 ALUMINUM BANDS with raised figures, price postpaid, 10-15c, 25-25c, 50-55c, 100-60c.
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capons now and these parties may be consulted to good advantage, as the experience of others will always help a beginner. The important thing, however, is to have good reliable instruments, as the work cannot be done without them. Then have the birds in good condition and there is scarcely a chance for failure. Follow the directions that come with any of the reliable instruments and almost any one can make capons. Every one that has birds at all suitable should make capons at this time and render the country a real service and a profitable one to themselves.

THE BUFF MINORCA.

By W. R. MORTIMER, Los Gatos, Cal.

THE ability of a fowl to produce quantities of large sized eggs is of the greatest importance. The Buff Minorca is absolutely unsurpassed in this quality. They begin to lay as early as any Leghorn, and earlier than the majority of breeds. In their first year no fowl will give a better egg yield. A flock of good, well cared for Buff Minorca pullets, or yearlings, will lay a surprisingly large number of the finest layers for a greater length of time than practically any other breed, and do not have to be sold when about two years old, but most of them can be retained with profit for at least three or four years. They are excellent winter layers, beginning to lay promptly when thru with the molt, and continue laying right thru the winter, no matter how disagreeable the weather may be. The eggs are strictly pure white in color, are well shaped and of a good flavor. In size their eggs, like those of the Black Minorcas, are of the very largest, averaging larger than those of the Anconas, Brahmans, Houdans or any other breed noted for its large sized eggs. In short, a Buff Minorca hen will produce more pounds of eggs in one year, or in her life time, than any other kind of a hen.

The Buff Minorcas are true non-setters, which is, without doubt, a great virtue. Such occasional cases of broodiness as are found in Buff Minorcas are easily cured, and the broody hen is usually laying again as well as before, within a week. The egg yield from a flock of Buff Minorcas is not decreased in the summer by means of numerous, troublesome broody hens, and time is not wasted in shutting them up, or in other ways breaking up their spell of broodiness.

In size the Buff Minorcas are large, being about the size of a Rhode Island Red, or Wyandotte. The Standard weight for the cock is eight pounds, and for the hen six and one-half pounds. The Minorca is the only large breed that is a non-setter, and that lays white eggs, with the exception of two or three old breeds that are scarcely ever seen now. This point should not be overlooked.

Buff Minorcas make a very good market fowl. The chicks make excellent broilers at an early age. When allowed to develop they make the best of fryers and roasters. When old they can be fattened into a choice table or market fowl of good size. Their clean white legs and skin give them a very good appearance when dressed.

Like the Black Minorcas, the Buffs are very hardy and vigorous, standing heat, cold and adverse conditions remarkably

well. The chicks grow fast, work hard, and do very well if given any chance whatever. The large fowls, as well as the little chicks, are excellent foragers. They are always busy and don't sit around all day doing nothing but eat, sleep and take on fat. They can, with little effort, be made very tame, yet they are not at all stupid like the American and Asiatic breeds. They are alert and full of life, the cock always being ready to defend his flock. They eat just about two-thirds the amount of feed that a Black Minorca does, and eat but very little more than a Leghorn. Of course, this is of the utmost importance, especially at the present cost of grain. A flock of Buff Minorcas will give its owner in exchange for a given amount of feed more eggs and meat of the very highest class than any other breed or variety.

The Buff Minorca has about the best all around color a fowl could have. As far as beauty is concerned, a buff fowl has no superior. A flock of brilliant golden buff birds makes as pretty a sight as one would wish to see. In the sun the cock shines like gold and which, contrasted with his bright red comb, presents a fine appearance. Looking at the practical side, buff is nearer an ideal color than any other. The white fowl, when kept clean, looks very nice. But keeping them clean in a barn-yard, or when in confinement, is nearly impossible. When given free range there is great danger from hawks and animals of prey, on account of the white color being so conspicuous. The buffs on the other hand do not show the dirt and can often escape hawks and animals without being detected. The black fowl is always secondary at the markets on account of the dark legs and black pin feathers, while the buffs command the top prices. The blue fowls do not breed true to color, and even when properly mated, will still throw off twenty-five to fifty percent off color birds. Red fowls fade in color after their first year and lose their attractive color, while buff fowls stay brilliant and beautiful as long as they live. Parti-colored birds, such as mottled, barred and the various silvers and goldens are always hard to breed true to color. Many of them require double matings and experts to get good results in color. Buff fowls do not require any special matings, nor experts to get good color and very few off color specimens are gotten.

In shape the Buff Minorcas are the same as the Black and White Minorcas. The shape of the Minorca is a practical shape, many high scoring exhibition hens making wonderful layers of large sized eggs. The Buffs are bred quite true to color now and were admitted into the Standard in 1914.

The Buff Minorca presents a very striking appearance with its most beautiful golden buff color, bright red comb and clean white ear lobes. It has wide-awake, gay and lively actions, yet when treated with ordinary care they are not at all wild.

Anyone who gives the Buff Minorcas a fair trial cannot help liking them, whether he looks upon from a practical standpoint or as a fancier. From the practical side they are unequaled layers of white eggs, are an unsurpassed market fowl of good size, are non-setters, hardy and small eaters. As a fancier's fowl they are very beautiful, are tame and are attractive.

Something New in Egg Preservation.

At this season of the year everybody is, or should be, preserving eggs for next fall and winter use. The water-glass method has long been considered the most satisfactory and is recommended by both Federal and State Agricultural Departments. The home preservation of eggs is more than ever needed this spring.

The water-glass method, while effective and certain to keep eggs sweet, is more or less sloppy and calls for a wet sack in bulky containers. A safe and certain method of preserving eggs which would permit use of regulation egg cases and storing in pantry or cool room, if proved satisfactory, would certainly be welcomed by all producers and consumers alike.

As a matter of news it is interesting to know that the Colytic Corporation, with offices and demonstration plant at 351-353 East Ohio Street, Chicago, is making extraordinary claims for a new method for preserving eggs without cold storage.

It is claimed that by use of the Colytic process, the farmer or poultryman can so treat his eggs that they do not develop spots, rots, molds, taints, bacteria, etc., and the eggs may be stored, shipped, exposed for sale and handled just as fresh eggs are handled without deterioration.

The process consists of dipping the eggs in a liquid of presumably secret formula. While the company uses a machine for this purpose, it is claimed that no special equipment, other than a thermometer is required.

The extraordinary feature of the claims for this process are that fresh eggs will be kept sweet, sound and unchanged for a year or longer without cold storage, may be kept and handled just as any other staple food is kept and handled, that the eggs keep sweet and the process sterilizes the eggs and will actually remove the stale taint and unpleasant flavor from storage eggs, restoring them to almost their original sweetness.

The process has been offered to the U. S. Department of Agriculture for use during the war. The Swiss Minister at Washington is interested on behalf of his government and asks for exclusive rights for his country. Numerous tests have been made of the processed eggs and chemists have testified as to their apparent wholesomeness and freedom from bacteria. This new process would seem to be worthy of most careful investigation by our government experts. If it will do all that is claimed for it, it will certainly prove a boon to poultrymen and the consuming public.

New Food Control Rulings.

Step by step the commercial handling of food commodities is being freed from elements of chance and opportunities for waste. Among the new amendments and additions to existing food control regulations are several of unusual interest to farmers.

Specific new rules governing the acceptance and unloading of perishables will prevent undue accumulation of perishable shipments at terminal points and reduce the possibility of waste to a minimum.

In any sale of feed stuffs, licensees

must not take more than a reasonable profit over the average cost of stock of any commodity on hand or under control, nor at that time contracted to be sold.

Poultry feed must not contain any wheat fit for human consumption and in no event shall the amount of wheat exceed ten percent.

Profiteering thru unnecessary transactions is eliminated by the rule which forbids the resale of food commodities within the same trade, without reasonable justification. The complete rules and regulations have been published by the Food Administration in pamphlet form.

Why Lose Chicks and Waste Feed?

Right feeding and methods this summer will save money and keep chicks growing. With present high priced feeds you can't afford to feed chicks in a "hit and miss" fashion. Such methods waste feed, time and money. Proper methods enable you to avoid bowel trouble, lower feed bills and develop pullets into early layers. It's vital that you know how to keep your chicks growing and healthy, free from lice, and your houses free from mites. Stop wasting time, money and good eggs. Thousands say the suggestions of the widely known poultry expert, "Tom" Quisenberry, Box 206, Leavenworth, Kansas, President of the American Poultry School, have enabled them to hatch and raise more chicks with less work, less loss and at a lower cost than ever before. He shows you how to keep the chicks growing and de-

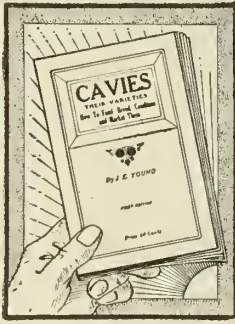
velop early layers. Mr. Quisenberry sends his bulletin on "Fighting Lice and Mites" and on "Feeding and Growing Chicks" without charge to any of our readers who are interested. His suggestions will save you money, feed and chicks. Write today before all bulletins are gone.—Adv.

NO COLD FEET AT KANSAS CITY.

The Heart of America Poultry Show Announces Its Dates and Judges for this Year.

THE Heart of America Show will again be held Thanksgiving week, November 25 to December 1, 1918, opening promptly on Monday morning and closing Saturday night. The following is a list of the judges and some of their assignments. Jas. A. Tucker, Royal Oak, Mich., all Rhode Island Reds, both Rose and Single Combs. E. C. Branch, Lees Summit, Mo., Plymouth Rocks, Barred, Partridge and Columbian; Wyandottes, Partridge, Silver Penciled and all waterfowls. J. H. Drevensstedt, Schenectady, N. Y., Plymouth Rocks, White, Buff; Wyandottes, White, Buff, Silver Laced and Golden. Walter Burton, Arlington, Texas, all Orpingtons, all Minorcas, all Langshans, Buttercups, Cornish, Anconas and turkeys. Harlo J. Fiske, Leavenworth, Kans., all Leghorns. All other classes to be assigned later. Edward McMurtry, 1310 Cleveland Ave., Kansas City, Mo., will again be on the job as general superintendent and Chas. Grunske, 1514 Elmwood Ave., Kansas City, Mo., will again be at the desk as secretary-treasurer.

We trust that all show associations will take notice of the above dates and try as far as possible to avoid conflicting dates. Address all communications until October 15, 1918, to Chas. Grunske, secretary, 1514 Elmwood Ave., Kansas City, Mo.; after that date, 418 Reliance Bldg., Kansas City, Mo.



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By James E. Young, Licensed Judge, Pres. Chicago Breeders Assn.

Contains chapters on Cavy Breeds and Their Varieties, English Cavies, The Market for Cavies, Housing, Feeding, Breeding, Conditioning for the Show, How to Ship, Diseases and Their Treatment, and chapters of miscellaneous hints. Illustrated with halftones and line drawings of prize winners of different varieties and hutches for housing.

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No. 1—Pigeon10c	20c	35c	55c	1.25
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No. 2—Mediterranean15c	25c	45c	80c	1.85
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No. 6—Asiatic15c	30c	50c	90c	2.15
No. 7—Turkey15c	30c	50c	90c	2.15

Special price on larger quantity.

Send 14c and we will immediately mail you 15 Bands. State size and color wanted.

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Simple, scientific and absolutely satisfactory. Used by the U. S. Government, by practically every Agricultural College, and by leading Poultry Raisers everywhere.

VALUE OF ROSE COMB BLACK MINORCAS.

By O. M. ALLEN, Butlerville, Ind.

IN WRITING about Rose Comb Black Minorcas, enough cannot be said in regard to their good points. As far back as they can be traced it will be found they have fulfilled their mission under every condition.

In breeding the Minorcas, the most important factor with me is the type, or at least I try to let it be the most important. Neither do I lose sight of color or size. In fact, I try not to lose sight of anything. Endeavor to have in mind what your "ideal" of a Minorca is and strive to attain just such birds. The Standard weights for Rose Comb Minorcas are: Cock, 8 pounds; hen, 6½ pounds; pullet, 5½ pounds. Altho much larger birds are bred than these. Males often weigh as high as ten pounds, while I have a female now in my yards that weighs 8½ pounds.

The Minorca is a beautiful bird, being entirely black, with black legs and white ear lobes.

Having bred and given an impartial trial to five different breeds during the

Uncomfortable		Joram's Lice Rid
Hens Never Lay		Keeps Them Comfortable
One Size 3 Ounce 50 Cts	Hens Free From Lice LAY BETTER	Directions on every can

THIS STUFF WORKS!

What poultry keeper can say that his flock is free from lice? These abominable vermin take all the pleasure and profit out of poultry keeping—they make the hen uncomfortable and mopey—they kill the chicks—they even kill the grown hens. It has been said by an authority that lice are responsible for more dead birds than any other enemy of poultry.

JORAM'S LICE RID KILLS THE LICE

It is a remedy for lice that never fails to work. It kills lice, and it prevents lice from getting onto the birds afterward. JORAM'S LICE RID will kill HEAD LICE on CHICKS.

EASILY APPLIED

JORAM'S LICE RID is not like the other lice killers on the market—you KNOW they don't work—but JORAM'S goes after them in a "DIFFERENT" way. Vermin have a "base" of operations, just like submarines. You apply JORAM'S to the "base"—and the lice never move from there. That's where they die.

JORAM'S LICE RID IS ABSOLUTELY GUARANTEED to do the work, if directions are followed, or money refunded.

CHEAP It costs less than 1 cent per bird to apply JORAM'S LICE RID, and that's the end of it. You need this key to success in poultry raising. You need it now. One size, 3 ounces for 50 cents.

G. L. DU BOIS, Distributor, COBDEN, ILLINOIS.

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Special Sale of Breeding Hens at \$5.00 and \$10.00 each. Show Hens, \$15.00 each.

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time I have bred poultry, during which period of time my object has always been to produce birds of egg laying, meat production and show qualities, all combined in one breed, I believe that I can truthfully say that of all the breeds I have tried and had experience with, the R. C. Black Minorca comes nearest to being that ideal fowl for which we are all striving and in which is embodied those most important qualities so much sought for in the all purpose fowl, namely, a breed that will lay, weigh, win and a breed that will pay.

I have often noticed during the cold winter months of November, December, January, February and March, when the so-called prominent breeds kept by some of our neighbors and fellow fanciers were huddled together in their respective poultry houses endeavoring to keep warm, with their heads under their wings to keep their combs from freezing, then it was that our good old R. C. Black Minorcas were doing their best and were demonstrating their hardiness and their ability to withstand the most severe cold weather, by shelling out their beautiful white shelled eggs and this at the very time when the price of market eggs was at its very highest. So our claim that they will surely pay must go without successful contradiction.

Take the average farmer and the Minorcas will fill the bill in almost every instance. From birth they are a desirable fowl for the breeder, because of their unusual strength as compared with many other breeds, their ability to pick up a living on range and the ease with which they are handled; this latter due to their docility. They feather quickly, so that their sturdiness favors their not huddling or crowding and smothering to death when raised in brooders or after their foster mothers have left them or been taken away. Then when moved from their first coops to larger quarters, such as colony houses on range, they soon accustom themselves to the new surroundings and it is seldom that even one of them gives any trouble in wandering to the old camping grounds when night falls.

The farm with its unlimited range for the growing birds offers ideal conditions for maturing Minorcas. On free range they are not inclined to take on flesh rapidly but will develop wonderful bone, frame and stamina, just the things that are most essential for the fowl that is intended for a breeder. It is a very simple matter to catch up a few cockerels and fatten them in a few days for the home table.

If a bunch of these birds are to be fattened for market they can be yarded and housed at some convenient place where it is easiest for the feeding and watering. When it comes to yarding them, use a four-foot fence. The scraps from the table, mixed with corn meal and sour milk, will put on fat at a surprising rate and give these favored fowls a flavor that is not to be beaten. On the farm there is always the possibility of company arriving unexpectedly and with a Minorca cockerel in the fattening pen the question of meat is solved. When you kill one of these fine large fellows you not only have enough to eat yourselves but plenty for the company.

Eggs are a problem on every farm and here the R. C. Black Minorcas shine during those winter months. This breed does not require pampering and apparently the less of it they have the more

eggs they lay. Their rose combs are impervious to the coldest weather and being well covered and cushioned with an abundance of feathers are ideally built for withstanding Jack Frost. To my way of thinking there is no better fowl for the farmer and judging by the sales of these birds that they boom more good under what are ordinarily con- each day.

In selecting and mating Minorcas, the Standard of Perfection is designed to furnish correct ideas for success to breeders, therefore the breeder of any variety ought to become thoroly familiar with the Standard requirements before he undertakes to select birds for breeding.

It is impossible to have breeding birds which are absolutely perfect in all sections. The object of breeding to a Standard is to have an ideal for each section of the bird so that by breeding as near as possible to this ideal the flock is kept more uniform than it otherwise could be. In mating Minorcas, when selecting females, care should be taken to select birds which are uniform in appearance, having similar faults and excelling in the same points so that they can all be well mated by the same male. The male should be especially strong in the points in which the females are weak, so his weak points will be balanced up with strong points in the females. Always select the best that can be obtained in all sections of both sexes.

Minorca chicks are not all black when hatched. At first they are black with creamy breasts and throat, often extending to the front of the wings. After they get feathered out there is nearly always some white feathers in the wings which will be carried until the first molt. Some occasionally have all black feathers from the start, but it is not common, and the white on the chicks is a true sign of good stock.

These birds will thrive where kept in confinement the same as on the farm if they are looked after in the right manner and lay extra well. I do not recommend these systems, but I believe that my hens or pullets would prove to be profitable under any sanitary conditions. Any one that is thinking of poultry could do no better than to try a few of these Rose Comb Black Minorcas and help solve the great food problem.

Next to milk, the egg is the most wonderful, most desirable, best, least appreciated and cheapest "meat" food available for human use. Yet a man who will squander 25 cents for a thimbleful of drink which injures him, or a woman who will eagerly pay over a dollar for a dime's worth of sugar in the form of candy, will both of them scream "robber," and yell their heads off, if asked to pay seven cents for a new-laid egg or 15 cents for a quart of good fresh milk. The consumers' policy seems to be: "Millions for greed and folly, but not one cent to the food producer if we can help it."

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RHODE ISLAND WHITES.

By F. W. BUBB, Newmanstown, Pa.

THIS is one of the new standard breeds which has gained prominence as a practical business fowl. Like the Reds, they originated in Rhode Island. They are the result of a careful crossing of several well-known breeds, the Cochin, Wyandotte and Leghorn.

Only a few years ago they made their appearance as a new breed. They were considered scrubs at first and met with severe opposition. They have withstood many knocks and jars. They have had a hard, up-hill fight to gain a place among the best breeds. But because they possess the necessary qualities they have become one of the most popular breeds. There are few, if any, breeds now being raised that possess as many desirable and useful qualities and at the same time have so few drawbacks. As a breed they meet every requirement for all classes of practical and fancy poultry raisers. They are like the Rhode Island Reds in size, shape and habits. They are white instead of red, but possess all of those and more good business qualities which have made the Reds so famous and popular.

Their unquestionable popularity is due to their all-around qualities. They are first to produce eggs in any climate, first to mature as broilers. Many will weigh two pounds at eight weeks, and bring a fancy price in the open market. As table fowls they are unexcelled. Their meat is well flavored, fine and juicy.

They are great layers, early beginners and winners in the egg-laying contests. In the National egg-laying contest, which closed November 1, 1915, with 79 pens and 26 varieties competing, there were only two pens of Rhode Island Whites. One of these pens won the December cup and held second place until June. Then during the summer months it fell back to fourth place, but during September and October it won back what it had lost, winning second place for the entire year. Beaten only by a pen of world-renowned English Leghorns that had been line-bred for years for eggs, thus winning over all the American birds in the contest. The other pen of Rhode Island Whites won sixth place. Seven of the ten best pens were Leghorns. Thus the Rhode Island Whites have proven all we have ever claimed for them in the way of eggs—that they lay as well as Leghorns and lay better when eggs are highest.

The sensational part of their performance in the laying contests is their wonderful fall and winter laying. They are also splendid year-round layers, but as winter egg producers they are proving themselves leaders in their line. They are the hens that lay during the winter months and are therefore the most profitable.

Meat and eggs are the people's need of poultry, and this is where the Whites are doubly productive. They are a medium, well-built bird for market purposes, and large enough and splendidly shaped for good egg producers. Having long, broad, deep bodies, they have ample capacity for food consumption, consequently a large egg capacity. Combining, as they do, more good qualities and fewer bad ones than any other breed yet offered to the public, they are bound

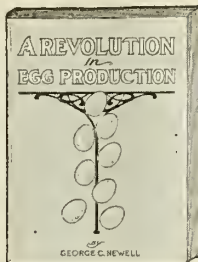
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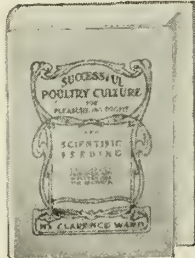
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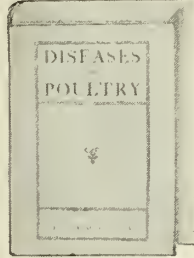
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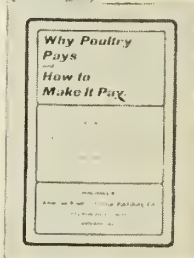
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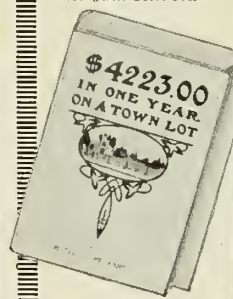


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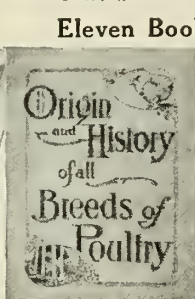


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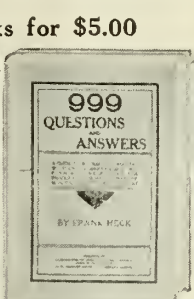
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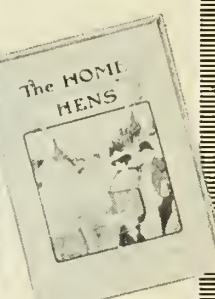
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to excel when it comes to profit. On the farm, the suburban home and back yard of the town-lot fancier, they are winning their way because of their ability to deliver the goods in eggs and meat. If I were to stock an egg farm I would have nothing but Rhode Island Whites. They do not go on a strike or vacation when the thermometer is hovering around zero, but keep busy, and the egg basket is well filled when the market is highest.

For the fancier I know no better bird. In beauty they rival the White Wyandotte, but are of a more business type. There is not a more beautiful bird known to the American Standard of Perfection than the Rhode Island Whites. The reason they have not been more extensively advertised is because the demand for them has been growing greater than the supply, and breeders find their surplus easily sold before the breeding season begins. Combining all these good qualities, we have the world's best and greatest general-purpose fowl. I have bred seven of the most popular American and Mediterranean breeds and if any had proved to be better I would breed them instead of the Rhode Island Whites.

Thus, the reader will readily see that this breed has all the good points to recommend them, both to the fancier and to the farmer. If you want one of the most profitable, most beautiful, excellent winter layers and a No. 1 market fowl, invest in Rhode Island Whites.

SALMON FAVEROLLES ARE BECOMING POPULAR.

By EUGENE T. PRESCOTT, Salem, Oregon.

AS SECTION SECRETARY for the American Salmon Faverolle Club, I am pleased to offer to the readers of the AMERICAN POULTRY JOURNAL some facts concerning this breed of poultry, which, I believe, will interest them. My belief is based on the fact that I am constantly receiving letters from all parts of the country asking for information concerning this, supposedly, new breed of poultry. In these columns I am able to explain to something over 200,000 people with as little effort as I would give to one letter.

Salmon Faverolles, while considered by many to be a new breed, are not of as recent origin as many suppose, for as far back as 1880 we find they were quite commonly raised in the northern part of France, in a district known as the "Faverolles," from whence comes their name. They were first introduced into England in 1892 and found their way across the water to this country in 1896. Since that time they have spread all over this country and have found their way from here across the water to Japan, where they are now becoming very popular.

In 1914 this breed was admitted to the Standard of Perfection by the American Poultry Association, which threw down the bars and opened wide their untrodden pathway which leads to a most promising future. As the Faverolles pass thru the portals, their sturdy physique, attired, as it were, in a most artistic gown, they must attract the attention of all poultry loving people, and as they scatter thruout the country will win a permanent abiding place wherever given shelter.

Faverolles are classed as a general purpose fowl. They bring the highest price on the market and are good egg producers. The cock weighs 8 lbs.; hen, 6½ lbs.; cockerel, 7 lbs.; pullet, 5½ lbs.

Faverolles are quite a unique breed in many respects, and most interesting as a study. They were produced by crossing the Houdans, Dorkings, Cochins or Brahmans. The crossings, whether accidental or intentional, produced a type of fowl that stands out in contrast to all other breeds of poultry. Possibly the most noticeable characteristic is the color scheme. The breast, body feathers and fluff of the male are black, while the same of the hen are cream. The back, neck, tail and wings of the hen are salmon brown, while the back of the male is a mixture of black and reddish-brown, and the neck, saddle and wing-bow are straw. The wing bar is black and the wing bay white. The male takes his color very strongly from the dorking.

The Houdans give to this breed a muffing on the sides of the head and under the beak. The crest of the Houdan was lost in the cross. Both the Houdan and Dorking furnished this breed with a fifth toe, while the Cochins or Brahma furnished them with a light feathering on the legs. This feathering is not so heavy as on the parent stock.

This breed is recognized as being the heaviest feathered fowl in existence. This extra protection makes them very much adapted to the colder climates and practically immune from the ill effects of changing weather conditions. Their excellent winter egg production is also attributed to this heavy feathering.

At the recent "All-Northwest Laying Contest" the Faverolles were found to be among the best layers there.

The front view of a Faverolle hen reminds one of the bulldog sturdiness. The keel bone is deep and extends well forward. There is great width between the legs and a slight tendency in some birds to squattiness.

Faverolles are great foragers; in fact, the muffing on the sides of the head limiting their vision to straight ahead compels them to spend more time and go farther in search of food than were it not for this peculiarity.

The wing of the Faverolle is quite small, which makes them easily confined when desired. They are tame and easily made pets.

The sex of the Faverolles can be determined at two weeks old, which makes it possible to sell pullets next to day-old.

Faverolles often weigh 4 lbs. at sixteen weeks old. The pullets are never without their natural protection. The cockerels feather out more slowly and as a result their development is much more rapid. Properly handled they are ready for the market at five weeks old.

The sexual nature of the cockerel is slow in development, which fact makes it possible to allow the two sexes to run together much longer.

Pullets hatched in April begin laying between 5½ and 6 months old. May-hatched pullets often do as well when fall weather conditions are favorable.

If you are a fancier of the ornamental, the Faverolles are that; and if it is a broiler you want, they cannot be beat, and if you are catering to the egg market they will not disappoint you.

Faverolles are advertised in England as "king of utility and the world's greatest winter layers." The eggs of the Faverolles are cream in color and of good size.

The harmonious blending in the Salmon Faverolles of the several meritorious characteristics of their ancestors has produced a breed of poultry that is destined to make France and her little Faverolle settlement famous the world over as the home of one of the grandest breeds of poultry ever produced.

If statistics are to be believed, the American hen in 1915 produced \$953,920,000 worth of poultry meat and eggs, estimating values at average wholesale prices of the entire country for the whole year. If it were possible to show the actual total value of all eggs and poultry produced and consumed in one year, the American hen could easily prove her claim of producing a "billion dollars" worth of food annually.



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STARKS' WHITE ROCKS

WHY BREED ROSE COMBS?

By S. B. WENGER, South English, Iowa.

WITH many people it is a matter of fancy. Some fancy rose combs while others fancy single combs. It is our privilege to breed our fancy. It is perfectly all right that we do so, but laying aside "fancy," there is an advantage in the low rose comb, as that of the Wyandottes, etc., in resisting frost. We sometimes hear it said that "a frosted rose comb is worse than a frosted single comb." This is true because of the thickness of the comb.

The advantage, however, is that the rose comb does not so readily freeze. It will stand more cold weather without freezing. I frequently quote the language of Mrs. W. J. Sparks, Blunt, S. D., because it so fittingly tells the true story between the rose and single combs. The advantage of the rose comb could not be expressed in plainer terms than the language of Mrs. Sparks which is as follows:

"Returning home after the blizzard I found my Barred Rocks all badly frozen except my five rose combs, which did not seem to know it had been cold." In making this statement in a private letter, Mrs. Sparks had no idea that her language would ever be used in print, or that she was any more than privately expressing her own experiences with rose combs.

There are a number of breeds of chickens of Standard varieties that can be had either in the rose or single comb. They are being bred all over the country as a matter of fancy. They are recognized by the American Poultry Association as Standard breeds and apparently have no opposition. There was a time, perhaps, in the formation of these breeds when it was an "up-hill pull" for those who were engaged in producing them. After they were approved by the American Poultry Association and became Standard varieties, the problem was solved and there were then plenty of fanciers of these particular breeds.

It is remarkably strange that many people do not fancy things until they become popular. They will as a rule oppose new measures until they see where public sentiment is going, then they fall into line and like to become leaders in the new movement.

People fail to see the advantage in new methods and measures until they see which way public sentiment is going. After things become popular you could not keep them out with a club. This holds good in many things, not only in the introduction of new breeds of poultry.

We are often asked the question, "Is the Rose Comb Barred Rock a standard breed?" The answer is, No; it has not yet been admitted to the Standard by the American Poultry Association. If it were, there are thousands who would fancy the rose comb who today will not look at it. Nevertheless, this breed is gaining friends every day and it is, some day, going to come to the front on its merits. When a breed has the foundation advantages as the Rose Comb Barred Rock, there is nothing but suspicion and prejudice retards its development. For its foundation it has the high standards of excellence of the Single Comb Barred Rock. One Rose Comb Barred Rock cockerel with a pen

of Single Comb hens or pullets in one season changes the comb from a sure freeze to a practically non-freeze comb in the flock.

Every person has a right to breed his fancy, but aside from "fancy" there are advantages that ought to appeal to our better judgment in the line of humane treatment as well as financial benefits. Breed your fancy, but allow your fancy to be guided by your own better judgment in any breed. I would suggest that we also shorten up the wattles to prevent them freezing.

To Whom It May Concern.

This is to certify that I have this day sold to Arthur H. Shaw, proprietor of Sabrina Farm, Wellesley, Mass., my entire flock of White Wyandottes without reserve, and my good-will for two years.

This sale includes all my 1918 matings, and the 1918 chicks. These matings were far and away the finest ever on Owen Farms, and the chicks are the most promising. This fine flock of Wyandottes, when combined with Mr. Shaw's already fine flock, will give him one of the largest and best flocks in all America.

Mr. Shaw bears the very highest reputation as a man, and as a poultryman. I can heartily recommend him to every Owen Farms customer, and it gives me great pleasure to turn over to him my

fine flock, as I know the line-breeding will be carefully continued, and the general excellence of the flock raised to an even higher plane.

Owen Farms White Wyandotte customers will receive the same careful attention from Mr. Shaw that they found here, and can go to him for birds to mate with their present flocks.

Fraternally yours,
MAURICE F. DELANO,
Proprietor of Owen Farms.

Paying Investment for Poultrymen.

If there are any readers of this paper who would like to invest a little money in a poultry proposition that will pay them a good dividend, I would be glad to put them in touch with same. Dividends will be guaranteed to anyone who will invest a reasonable amount and also includes a good position for the right party. The work would include outdoor work with poultry and office work. Good opportunity for some one. Write to T. E. Quisenberry, Leavenworth, Kansas. Position, for one each, good printer, bookkeeper, practical poultry and office man.—Adv.



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White Wyandottes.

No doubt there are a good many people who are about to embark on the breeding of thorobred poultry, both from a commercial and fancy standpoint, and it is for the beginner that I am writing this article. It is highly possible that you have been pondering on what is the best breed. You may have written to some publisher asking his views on the subject or perhaps your friends have offered their service in the endeavor to help you to make a decision.

I am deeply interested in the man or woman who is inclined to follow the breeding of thorobred poultry and I want to see you succeed, no matter whether you breed my favorite or not.

I have bred White Wyandottes for a number of years, finally choosing this breed after trying White Leghorns, Barred Rocks and R. I. Reds. All of these varieties have their good qualities, but I much prefer the White Wyandottes. You may ask why. As for a market fowl they are of good size, have yellow skin, which is so much preferred by the commercial dealer, and their ability to lay a large number of eggs and especially in the winter when eggs are

bringing their best prices, is not denied by any one. These merits alone should be conclusive evidence that they are one of the best breeds. Perhaps you would take pleasure in entering your birds in competition with your fellow breeder in some of the large shows. As an exhibition bird what is more beautiful than a White Wyandotte? Their white plumage arranged in curves, together with their yellow legs and beak and red wattles and comb is a combination that is unequalled. If you are anticipating the breeding of poultry for show purposes, another point that is very much in their favor is that their plumage is a solid color and not so hard to breed. Some critics may say that you will have brassiness in your flock. As for this I am pleased to state that this breed is backed up by a lot of men who are enough interested in them that a stay-white bird is no longer a rare specimen, but instead their flock is of an A-1 dyed-in-the-wool, stay-white quality, and their offspring will be the same if not better. I had the pleasure of attending the last St. Louis show and the long rows of these beautiful birds was an attraction alone.

No matter whether you are breeding

for eggs and meat or for the fancy, let your foundation be the best. In this breed fancy and utility are combined in the same birds. There are several ways in which one may get a start in this fascinating, money-making pleasure. One is to start with a setting of eggs, another to invest in baby chicks and still another to buy breeding stock. If you are anxious to have your birds to care for then to buy stock is best and cheapest. Within the covers of this magazine may be found the advertisements of men who are making the poultry industry their life business and which ever way you choose to start your investment with any of these advertisers is backed by the AMERICAN POULTRY JOURNAL, which assures you a square deal.

Assuming that you have a proper start, you must have proper houses for your birds. I am an advocater of the open-front style.

With proper care of your birds you should have no trouble in obtaining success. Do not become discouraged with the first snag you strike, but say you will, then put forth a little more effort. There are many things to learn. Build as you go. Learn to feed properly, to mate in the right way and your outcome will prove a profitable investment.

O. G. BRYTE, JR.

Follansbee, W. Va.

Poultry Don'ts.

Don't allow your hens to eat decayed flesh of any kind, unless you want them to get down with limberneck and have many of them die from the effect of it.

Don't allow filth and dampness to abound in and around your poultry roosting house; it will cause roup and its various attending ills.

Don't let the mites and lice get the upperhand about your place and cause you untold trouble and loss of both old and young stock.

Don't be afraid to give your fowls an abundance of green stuff at all seasons and all times; it is their salvation, whether they are old or young.

Don't be afraid to invest a few dollars in good stock any more than you would in improved seeds and grain to insure success.

Don't keep any males with the females, unless you intend hatching the eggs. Eggs for market will keep much longer if they are not fertile.

Don't put all sizes, shapes and colors of eggs in one lot for market; learn to grade them so they will look as much like one hen laid them all as possible.

Don't allow a dirty stale egg to go into your market basket no matter how high they are or how badly you need the money.

Don't be afraid to work with your poultry the year round, as it is the only road to success and one must stick to the right track. Keep up interest in your poultry both winter and summer. No matter what other duties you have, they should not be neglected.

Don't expect every egg to hatch when you buy eggs for that purpose from some good breeder. Your own eggs, as a rule, will not do that well.

Don't attempt to raise more than one kind of good standard bred chickens to reap the most benefit from them. Learn to specialize.



First Prize Cock at Madison Square Garden, December, 1916
JOHN S. MARTIN Box 51

Reduced Price Egg Sale

Martin's Regals

After June 1, the price of eggs from either Exhibition Matings, pens 1 to 20, or Dorcas Matings, pens 21 to 32, will be \$3 per 15, \$5.50 per 30, \$8 per 45, \$16 per 100.

Special Matings, (Exhibition or Dorcas) \$5 per 15, \$9 per 30, \$12 per 45, \$24 per 100.

Utility Matings, \$4.50 per 50, \$8 per 100.

This is an excellent chance to become acquainted with AMERICA'S FINEST WHITE WYANDOTTES' at small cost. All the pullets in my winning pens at Boston last January were hatched after June 1.

FREE—Send for 20-page illustrated catalog and summer sale list, giving description of 500 of my breeders I am offering for sale.

PORT DOVER, CANADA

TRAPNEST Record Cards

Size 5½x9 inches, printed on a good grade of strong cardboard, with eyelets for hanging up in the poultry house. Each card contains space for a daily record for one month for each individual hen in a pen of fifteen fowl.

Price, per doz., 50c; 3 doz. for \$1

AMERICAN POULTRY JOURNAL PUB. CO., 523 PLYMOUTH COURT, CHICAGO, ILL.

Buttercups

Eggs Half Price.

From pens headed by 1st cock and cockerel Garden, 1917; 2nd cockerel Garden, 1918, 1st pen cock, Boston, 1918.

\$5.00 per 15.

From pens headed by other winning males, at New York, Boston, Oxford and Syracuse, 1917-18.

\$2.50 and \$3.50 per 15.

ORDER DIRECT.

HIDDENHURST BUTTERCUP YARDS

Box 7A

SHARON STATION, N. Y.

Keeler's White Wyandottes—5 Firsts Chicago

Egg records 200 to 273. Eggs and stock now half price. 2000 chicks growing, ready Aug. 15. Summer sales list and 64 page art catalog free.

CHAS. V. KEELER, R. F. D. 11, WINAMAC, IND.

COLISEUM ANNOUNCES ADDITIONAL JUDGES.

Chas. McClave, of New London, O., and W. W. Henderson, of St. Louis, Mo., Added to the List.

DEFINITE plans for the judging of the several classes at the Coliseum Show, Chicago, have been perfected. Geo. W. Hackett, of North Freedom, Wis., having accepted a permanent position with the Government, is not able to fill his date, and Chas. McClave, of New London, Ohio, has been appointed to fill this vacancy. W. W. Henderson, of St. Louis, Mo., one of the best known Barred Rock breeders of the Middle West, has been assigned to the exhibition females and the pullet-bred cocks, cockerels and pens. James A. Tucker will judge the Barred Rock exhibition males and the cockerel-bred hens, pullets and pens. The 10th annual exhibition of this great show will be held December 3, 4, 5, 6, 7 and 8. Premium list will be mailed earlier this year than ordinarily on account of congested condition of all second and third class mail. Readers of this journal who may be interested in this exhibition should register early for a copy of the list.

SIX \$50 TROPHIES OFFERED BY THE CHICAGO FEED MEN.

The Chicago feed manufacturers, appreciating the importance of this exhibition, are each offering a \$50 trophy. These trophies to be offered for the best ten entries in a breed regardless of the varieties. For illustration, there will be one trophy for best ten Plymouth Rocks, one trophy for best ten Rhode Island Reds, one trophy for best ten Leghorns, one trophy for best ten Orpingtons, one trophy for best ten Wyandottes. In order to win these trophies, exhibitor must have ten or more entries. The judges in all classes will consider the quality of all birds in these classes, giving due consideration to color of the particular birds, and award the prize to the birds coming the nearest to Standard perfection.

No one is barred from this competition, and no additional entry fee will be charged. This will, without question, be the most valuable prize ever offered at any poultry show in America, and will mean more from an advertising standpoint than any special ever awarded.

\$100 ON ROSE COMB REDS AND \$50 CASH ON BARRED ROCKS.

The old exhibitors at the Coliseum, realizing the condition of the times, are planning to take a part of the expense off the management, and are putting up big cash specials. The Rose Comb Red breeders have put up \$100 in cash to be offered for first, second and third displays. No one exhibitor can win more than one of these cash specials, and competition is open to the world.

The Barred Rock fanciers have put up \$50 for a like special. The Light Brahma Club which holds its annual meeting at the Coliseum, is putting up \$150 in cash for club members.

A NEW FEATURE TO BE ADDED TO THIS SHOW.

A new feature never before added to a National show will be added this year, something that every exhibitor is vitally interested in and something that will please all of you. This feature will be announced in a later issue of this journal. Look out for it.

It is a notable fact that the Coliseum Show under its present management has introduced more new and beneficial features than any other ten shows in this country. We will try anything first, then the other fellow takes it up, but the one referred to here is the best ever. If you did not exhibit at the Coliseum in 1917, be sure to send in your name for copy of the premium list. — Theo. Hewes, Secretary, 25 West Washington St., Indianapolis, Ind., until October 1. After October 1, Lexington Hotel, Chicago. The Lexington Hotel, 22nd St. and Michigan Boul., has been selected as headquarters for 1918.

Coliseum Gets Light Brahma Club Meeting.

The American Light Brahma Club, without question one of the foremost specialty clubs of this country today, will hold their annual meeting with the Coliseum Show, Chicago, December 3, 4, 5, 6, 7 and 8. There is already subscribed more than \$100 in cash, besides numerous cups and other specials. The Light Brahma Club, under its present management, has done more to popularize this grand old breed than anything that has been done for a quarter of a century. With that kind of

club secretaries, Harry C. Wood, of Bound Brook, N. J., and that hustling Western president, Frank P. Johnson, of Indianapolis, Ind., it is a foregone conclusion that there will be a larger entry and a greater interest in this meeting than any that has been held to date. The classes will be divided between Fred Shellabarger, the veteran Iowa judge, and Chas. I. Balch, of Manchester, Conn. Mr. Balch is recognized today as one of the greatest breeders of Brahmas in America, while Mr. Shellabarger will be equally at home with this breed, as it was one of his first loves, and many of the best Light Brahmas in the West were bred on his place several years ago. This will be Mr. Balch's first appearance at the Coliseum as a judge, but when his name was suggested to the Western breeders one and all were strong for him on a part of the class, as his strain in the hands of the Western breeders had invariably given the best of satisfaction. Remember, Brahma breeders, this show comes early and it will be up to you to push the young ones along. The dates are the same as the International Stock Show, which brings thousands of buyers from all parts of the country. Register at once for copy of premium list, also get in touch with your secretary, Mr. Wood, or your president, Mr. Johnson, for list of specials. For show premium list address the secretary of the Coliseum Show, Theo. Hewes, Indianapolis, Ind.

Important Happenings.

Walhalla Poultry Farms, Oscoda, Mich., recently purchased the entire flock of Buff Minorcas from Lindgren Brothers, Kingsburg, Cal. Mr. Lindgren was the originator of the Buff Minorca and without doubt had the best flock of Buff Minorcas in the world.

Single Comb Red Male Brings \$212 for the Red Cross.

At the Red Cross sale held at Mountain Grove, Mo., May 11, a S. C. Red male brought \$212. This bird's mother made an unusual laying record in the National Egg Laying Contest at the Missouri State Poultry Experiment Station, Mountain Grove, Mo., having laid 260 eggs in twelve months. His sire was a splendid specimen of the breed and from the best blood lines in the United States. This

bird will be shipped to other Red Cross sales and re-sold until he reaches New York City, from which place he is to be shipped to General Pershing in France. It is expected that several thousand dollars will be realized for the Red Cross by the time the bird reaches New York City.

International Plymouth Rock Club Will Meet at the Coliseum.

The first annual meeting of the International Plymouth Rock Club will be held in connection with the 10th annual exhibition of the Great Mid-West Poultry and Pet Stock Association, Coliseum Building, Chicago, December 3, 4, 5, 6, 7 and 8, 1918. This new club organized at the last show in the Coliseum takes in all varieties of the Plymouth Rocks under one head. The aim and object is to promote the interest in all varieties of this great American breed and to consolidate the interest under one head, thereby saving the expense of several clubs and getting better results for all. There is hardly a prominent breeder of any of the Plymouth Rocks in the Middle West that has not joined the new club, while new members are being added every week. There will be the greatest list of specials ever offered put up at this show and every variety of Plymouth Rocks will have their special list. In addition there will be one grand \$50 special offered for the best 10 entries in Plymouth Rocks, all varieties to compete. This grand sweepstakes prize will carry with it the greatest advertising value of any special ever offered. If you are not a member, don't fail to join at once, as this is one specialty club that every Plymouth Rock breeder, regardless of variety, should support. The judges so far selected for this class at the Coliseum are James A. Tucker, exhibition Barred Rocks; A. F. Kummer, White Rocks; Chas. V. Keeler, Buff Rocks; Harry Atkins, Partridge Rocks, and Leo A. Lee, Columbian Rocks. Two other judges will be added to the Barred Rock class, one for cockerel-bred, and one for pullet-bred. Their names will be announced later. If you are not a member, send \$2 to Edward Johnson, secretary, Bricks, Mo., and join at once. Don't fail to register for premium list of the show, as it is confidently expected that this meeting will bring out at least 1,000 Plymouth Rocks. For further information address the show secretary, Theo. Hewes, Indianapolis, Ind.

SABRINA FARM

We have been breeding for years to produce

White Wyandottes

that are strong, sturdy, utility birds, and combine

Heavy Laying with High Standard Quality. The present high quality of our flock has been secured by painstaking care in breeding and trapnesting and by grasping every possible opportunity to improve our strain. Our latest step in advance is the purchase of

THE ENTIRE FLOCK OF Owen Farms White Wyandottes

—over 200 selected cocks and hens and the cream of the 1918 chickens. These birds, which have been line bred by Mr. Delano for 20 years, combined with ours, gives **Sabrina Farm** one of the **FINEST FLOCKS OF WHITE WYANDOTTES in existence.** Early hatched cockerels, fit to win at any Fall Fair in the country, are developing in grand shape. Write us your requirements and let us quote you.

We Offer Now at Half Price

a limited number of splendid cocks and hens, which will give you an opportunity to secure tested birds for showing and breeding next year, for only a fraction of their real value. My entire time is devoted to Sabrina Farm and every inquiry or order has my personal attention.

ARTHUR H. SHAW, Proprietor

Office at 502 Grove Street

Wellesley, Massachusetts

Feeding Baby Chicks.

Many chicks are lost each year because of improper feeding, especially during the first two or three weeks of the chick's life. The common mistake among a large number of people is to feed the chicks too soon after they are hatched. Just before breaking out of the shell, the newly hatched chicks ingest all of the unused yolk for future food supply. For this reason they do not need food for from thirty-six to forty-eight hours after hatching.

The first feed should be a coarse sand or fine commercial chick grit. After the chicks are from forty-eight to seventy-two hours old, the first food can be given. This food should be of a light, flaky nature. Rolled oats has given us the best results. They are flaky and easily seen. They also seem to have a desired effect on the bowels. In place of rolled oats, finely ground bread crumbs, wheat bran or hard boiled eggs can be used as a starter. Where buttermilk or sour milk is at hand, it should be used instead of water, as the acid keeps down bowel trouble. Feed at least five times a day, but in limited quantities.

Rabbits Wanted

Breeding Does and Young Stock; all breeds. State lowest prices and full description first letter. Will buy Guinea Pigs.

Austin Rabbitry ⁵¹³⁶ W. Madison St., Chicago, Ill.

- ROSE COMB - WHITE LEGHORN EGGS

\$6.00 per 15—From My Star Pen.

S.S. Hamburgs and R. C. Brown Leghorns, winners at County Fair. Utility Stock, eggs \$1.50 per 15.

JÓYCE GLEIN - - - FERTILE, MINN.

After two or three days of feeding on these starter feeds, a grain mixture consisting of equal parts of cracked corn and cracked wheat can be fed along with the starter feed. Commercial chick feed can be used instead of the above, but we advise the use of the former, because only the best of feeds should be used for baby chicks, and often the commercial feed is found to be mouldy. Besides the grain ration, the chicks should have before them at all times equal parts of wheat bran and sifted beef scraps. This system of feeding can be continued until the chicks are two weeks old.

From the third week to the sixth, the following ration will give good results: For the grain mixture use two parts of cracked wheat, two parts pinhead oatmeal, one part millet, and one part cracked corn, or a good commercial chick feed, providing it is absolutely free from mold. Feed the above in the litter once a day. For the dry mash that should always be available in a hopper, feed equal parts of bran, wheat middlings and beef scraps. Until this time the chicks should have nothing to drink but buttermilk or sour milk, but now it is advisable to give both milk and water.

From the seventh week on to maturity, feed equal parts whole wheat, hulled oats for a short time and then use oats and cracked corn. Feed this in deep litter once a day or twice a day. Keep the following mixture in a hopper before them at all times: equal parts of bran, wheat middlings, cornmeal, and half-part of linseed meal. Beef scraps, grit, oyster shells and charcoal should always be available. Keep plenty of fresh water and sour milk in a shady place.

Green feed should be supplied from the time the chicks are a few days old. Sprouted oats is one of the best green

feeds. Lettuce is also relished by the chicks.

S. R. STOUT,
Assistant in Poultry Husbandry,
Fayetteville, Ark.

SICILIAN BUTTERCUPS.

By E. B. McPHERRIN, Des Moines, Ia.

DURING this era of very high priced feed, I wish to urge poultry people to consider these fowls from Sicily as producers of great numbers of eggs on a small amount of feed. And why should we not look to this sunny country over the sea to produce great layers? For that is the country where everything and everybody labors hard to gain a livelihood. Is it strange that these hard-working people should have trained their fowl into laying large numbers of eggs, to help them gain their livelihood? For they have made even the bees of the air work diligently, for no bees have ever been found that could compare with the Italian bee. Coupled with this ability to lay great numbers of eggs on a small amount of feed, they have other essentials to make them an ideal fowl, such as a yellow skin, more size than the Leghorns, a friendly and quiet disposition and great beauty.

They are not a breed made up thru mixing and crossing, but are peculiarly distinctive, one of their chief characteristics being their comb, which is cup-shaped, surmounted by numerous erect points, resembling the petals of a flower. The color of the female is a golden buff, with barred black markings on the body, with plain golden colored hackle. The male is a beautiful, brilliant orange-red colored bird, with black tail and lustrous greenish black sickle feathers. No more handsome, or aristocratic bird exists than a well bred male of this variety. The fowls are backed by a club containing many members thruout this country and Canada, who believe the fowls are worthy to become one of the leading breeds of the world.

COMING EVENTS CAST THEIR SHADOWS BEFORE.

Coliseum Show to be Recognized by the Big Feed Manufacturers.

ARRANGEMENTS have been completed whereby five big feed manufacturers of Chicago are to offer as special prizes a \$50 trophy for best display in five separate classes. These trophies will be different from anything ever before offered at any poultry show and they will be offered for the best 10 entries of a breed rather than a variety. As an illustration: One trophy will be offered on Plymouth Rocks, one on Rhode Island Reds, one on Leghorns, one on Orpingtons and one on Wyandottes, with perhaps two more classes to be taken care of later.

These trophies will be offered for the best 10 entries in a breed and all varieties of the breed can compete. In the Plymouth Rocks, it may be the Barred, White, Buff, Partridge or Columbian variety that wins the special, but it must, in the opinion of the judges that handle that breed, be the best 10 entries. In other words, it must, in the opinion of the judges, be the 10 entries that come nearest to perfection as described by the Standard. Never was there a special offered that carried with it such advertising value as this one and it should be competed for by every red blooded fancier in America. The same rule that governs in Plymouth Rocks will be followed in all breeds. Every variety of that breed has a chance for this trophy. This announcement is made at this time so that all fanciers may have ample time to prepare their birds for this great event. All of last year's exhibitors at the Coliseum will receive the premium list without request. Others should send their names to Theo. Hewes, 25 West Washington St., Indianapolis, Ind., and request that their names be placed on the mailing list.



Illustrate Your Printed Matter

ABOVE IS ONE OF THE MANY HANDSOME ILLUSTRATIONS SHOWN IN THE

American Poultry Journal Cut Catalog

which contains many hundreds of cuts suitable for advertisements, letterheads, envelopes, catalogs, mating lists, in fact any and all classes of printing. Come up and lend distinction to your printed matter by the use of one or more of these illustrations. Send today for a free copy. We do not do job printing. We sell electrotypes (reproductions) of these illustrations which can be used by your own printer.

American Poultry Journal Pub. Co., 523 Plymouth Court, Chicago, Ill.

A New Jersey Woman's Experience With a Small Flock.

Dear Mr. Editor:

Noticing in this month's journal that one of your readers reports unfavorable results with her poultry, I (a back lot beginner with poultry) send you my experience and results. If you deem them helpful, print them.

Yours truly, Mrs. M. Rutherford, N. J., March 8, 1918.

WINTER 1916-1917.

Oct. 30, 1916, paid for 5 hens and exp- ressage (2 B. Minorca hens, 3 grade Minorca pullets).....	\$ 6.02
Up to May 9, 1917, paid for feed, straw, cups, nest eggs, etc.....	6.55
	\$12.57
May 9, 1917, received cash for hens and what feed, etc., was left.....	\$ 6.50
	\$ 6.07
Received cash for eggs sold and also for what we used at from 60c to 75c per dozen (current prices).....	\$18.87
Net profit	\$12.80
One of the pullets was a persistent sitter and should have been eaten. I don't think she laid more than 20 eggs all winter.	
	Eggs laid
From Dec. 16 to Dec. 31, 1916.....	48
From Jan. 1 to Jan. 31, 1917.....	65
From Feb. 1 to Feb. 28, 1917.....	67
From March 1 to March 31, 1917.....	94
From April 1 to April 30, 1917.....	86
From May 1 to May 8, 1917.....	24
Total eggs laid.....	384

WINTER 1917-1918.

Oct. 30, 1917, paid for 6 hens and exp- ressage	\$ 8.66
March 7, 1918, paid for feed, straw, cups and nest eggs.....	11.38
March 7, 1918, total outlay to date....	\$20.04
	Eggs laid
From Nov. 6 to Nov. 30, 1917.....	34
From Dec. 1 to Dec. 31, 1917.....	73
From Jan. 1 to Jan. 31, 1918.....	88
From Feb. 1 to Feb. 28, 1918.....	69
From March 1 to March 8, 1918.....	24
Total eggs laid.....	288
The account stands—	
24 dozen eggs at 85c.....	\$20.40
Feed on hand.....	2.00
5 hens (laying).....	7.50
	\$29.90

Note — The above hens were 5 Plymouth Rock pullets and 1 grade Black Minorca, 2-year-old. During December one of the pullets was broody for ten days and during February two pullets were broody for a week. The Minorca got a frozen comb and did not lay for two weeks, and on February 14 a fine, big, laying pullet dropped dead off the perch—it was very cold during that time. We could have sold every egg at from 75c to \$1 a dozen, but consumed or gave away every egg laid—none being sold.

The method of feeding was as follows: Night and morning commercial scratch, thrown among the litter; at mid-day a crumbly mash and green feed, with each meal they were supplied with fresh warm water for drinking, kept on a shelf about a foot above the floor; three or four times a week sufficient permanganate of potash was put in the water to color it. The green feed was oats, sprouted, in eight little boxes made out of cigar box wood, each box measured 4½x2x1¼ inches; they were kept near the kitchen stove, as the temperature was variable it was found eight boxes gave better results than seven. The mash consisted of two pounds each of bran, middlings, corn meal and beef scrap; salt was added when the daily feed was prepared. The house was 6x10 feet, well lighted and ventilated by having the whole south side sash removed, the aperture being covered with a piece of wire netting. The house was kept clean and the perch had kerosene poured

on it once or twice a month. Table scraps were a negligible quantity (there being only two in the household). If your correspondent, "P. O. of S. Orange, N. J.," hasn't had luck with your good advice I suggest she post one of Hoover's bulletins in the hen house, alongside a clipping of market reports from the daily paper, showing the high price of hen feed and eggs.

KEEP DOWN DISEASES AMONG YOUNG CHICKS.

By HARLEY L. WILLIAMS.

TO HELP prevent diseases too commonly prevalent among young chicks at this season of the year, dust the mother hen once every eight days with a good lice powder. Clean all poultry houses once a week in warm weather and clear out and burn all nesting material once a month. Spray the nest boxes with kerosene oil or some good disinfectant and refill the nest boxes with good clean nesting material. It is much easier to keep houses, coops, and poultry yard in good, clean, sanitary condition than it is to fight diseases and parasites once they get a start.

One of the pests to be guarded against on Southern farms is head lice on growing chicks. To destroy this insect the following home-made, inexpensive head lice ointment is recommended: 1 tablespoonful of pure lard, 1 tablespoonful of sulphur, 10 drops of kerosene.

Mix this thoroly and grease the heads of the young chicks by rubbing it well into the feathers. A piece about the size of a small pea is sufficient for application on one chick. One application is usually all that is necessary, but if a second application is needed, wait eight days after giving the first.

White diarrhoea is quite prevalent in Mississippi during the early spring months. Medical treatment is impractical, as it is expensive. Buttermilk is a splendid preventive of this dread disease. A daily feed of well cooked rice is also good for infected chicks.

For information about methods of poultry keeping suited to your conditions see your County Agent or write to the Extension Division of the Mississippi Agricultural College.

Position Open at North Carolina Agricultural Experiment Station.

Following out the scheme as practiced by agricultural colleges in some foreign countries, the Poultry Department of the North Carolina Agricultural Experiment Station and College has created a position of Practical Assistant to the Plant Poultryman. In this posi-

tion the person accepting it will devote his entire time to routine plant work: having time for reading at night. He will have access to the Poultry Library and Reading Room. He will receive sufficient pay to cover his actual living expenses and at the end of the year will be a practical poultry plant man or poultryman. The idea is to give him just practical poultry plant experience. Anyone interested in this position should correspond with Dr. B. F. Kaupp, Poultry Investigator and Pathologist, N. C. Agricultural Experiment Station, West Raleigh, N. C.

\$106 for the Red Cross.

Mauerhan Bros., of Edon, Ohio, until recently were the proud owners of a very fine White Wyandotte cock, but Uncle Sam called one of the brothers and before leaving for Camp Sherman they gave this bird to the Red Cross. The Rev. J. Denver Driskill sold the bird at public auction for \$106, which swells the Red Cross fund that amount.

EGGS

are what you want—and lots of them. To secure the best results you need Bartlett's



S. C. W. "Lay"ghorns

My pen 1 contains 11 yearling hens, with records of 135 to 272 eggs, mated to Ginger VIII, dam 288 eggs, sire's dam 278 eggs—a high grade exhibition bird.

Eggs, \$5 per 15 from this pen. I also have lower and higher priced eggs and some good breeders for sale. Order direct from this ad or send for mating list.

EMORY H. BARTLETT, Box 19, Enfield, Mass.

FREE—"THE RABBIT; A Source of Meat."

Illustrated treatise for 3-cent stamp. Also my sale list of high-class rabbits: Quality Flemish and Checkered Giants, Belgians, and New Zealand Reds.

M. W. MEEK

5141 Washington Blvd., Chicago, Ill.



Successful Poultry Culture

Treats on all subjects appertaining to the poultry business. The chapter telling how to save three-fourths of your feed bills is alone worth many times the price of the book. 128 pages, profusely illustrated. Price 50 cents. American Poultry Journal Pub. Co. 523 Plymouth Court, Chicago, Illinois

How to Build Poultry Houses

of all kinds and descriptions. It gives complete plans. How to make feed troughs, nest boxes, water troughs, roosts, dropping boards, brood coops, brooder houses, fattening coops, colony houses, winter and summer houses, etc. Price 50c. AMERICAN POULTRY JOURNAL PUB. CO. 523 Plymouth Court Chicago, Illinois

Why Poultry Pays and How to Make It Pay

By Morgan Bates. A "straight from the shoulder" talk on raising poultry from the money-making point of view. It gives the beginner sound advice about starting in. Covers all subjects. Price 50c. AMERICAN POULTRY JOURNAL PUB. CO. 523 Plymouth Court Chicago, Illinois



IF there is one business on earth that a quitter should leave alone, it is advertising. To make a success of advertising, one must be prepared to stick to it like a barnacle to a boat's bottom. Advertising doesn't jerk—it pulls. It begins very gently at first, but the pull is steady. It is like a team of horses pulling a heavy load; but half the power is required to keep it going that is necessary to start it.—John Wanamaker

CLASSIFIED ADS.



UNDER this heading ads will be inserted for seven cents per word each month for less than three months, or *six cents per word each insertion for three months or longer*. Changes in copy allowed every three months. Numbers and initials count as words. All ads will be inserted under *classified headings*. No ads accepted at less than an average of 60 cents per insertion. Terms, cash with each ad. Count the words carefully to avoid delay in publishing. Write your copy plainly, as upon this the correctness of your ad largely depends. When placing your ads remember that advertisers using Classified Ads get better returns from AMERICAN POULTRY JOURNAL than from any other poultry journal—none excepted. On writing any of these advertisers, mention AMERICAN POULTRY JOURNAL. *All copy for Classified Ads must reach us by the 17th of month preceding the date of issue.*

AMERICAN BREED

NEW AMERICAN BREED — Patriots; color, red, white and blue. Send for circular. Westboro Farms, Westboro, Mass 4-6

ANCONAS.

ANCONAS—SINGLE COMB. Cockerels, 8 weeks old, \$1.50 each. Cleve Fenerhaken, Ontarioville, Ill. 5-7

ANCONAS — CHICKS, \$15 per hundred. Eggs, \$6 per hundred. John Biehler, Strasburg, Ill. 3-6

S. C. ANCONAS—A real laying strain of show birds. Eggs from first pen, \$2 per 15, \$10 per 100. Baby chicks, 25c each. Satisfaction guaranteed. Harold E. Merchant, Savannah, Ill. 5-6

ANCONAS — BOTH COMBS. Cockerels, pullets, chicks and hatching eggs from fancy stock with egg records. Improve your strain without straining your purse. They'll please. Ralph Van Roalte, Holland, Mich. 5-7

SOUTHWARD'S SNOWDROP ANCONAS — Silver cup winners, 1917-18 shows. Eggs, \$2 per 15, \$12 per 100, \$100 per 1,000; finest exhibition, \$5 per 15. Utility chix, 20c each. Frank Southard, Ledford, Ill. 2-7

SHEPPARD'S FAMOUS ANCONAS — The World's Best. See display ad page 620. Cecil Sheppard, Berea, Ohio. 11-16-1yr

ANCONAS — BETTER VALUE for less money; free circular proves it. H. MacKenzie, Sheboygan Falls, Wis. 4-6

PRITCHARD'S GENETIC Anconas — Bred with care. Frank P. Pritchard, Naturalist-Breeder, Fairmount, Ill., Route No. A2. 11-17-1yr

SINGLE COMB ANCONA EGGS—\$1.50 per 15, \$6 per 100. Heavy laying strain. Prize winners. Mrs. E. C. Webster, Charles City, Iowa. 4-6

DEL CANTO S. C. ANCONAS—The world's egg producing machines; good type, nicely mottled. They are bred to lay. Eggs, \$2.50 and \$3 per fifteen. Frank del Canto, Stonehouse, N. Y. 4-6

S. C. ANCONAS—Sheppard's strain—Eggs. Chicks, 14-18 cents each. Circular free. G. Floyd Ward, Rossie, N. Y. 6

SPECIAL SALE of yearling hens, all out of Sheppard \$50 prize male. Many score over 90 and 200-egg record. Must sell to make room for growing stock. T. H. Holmes, River Forest, Ill. 6

ANDALUSIANS.

BLUE ANDALUSIANS — Fine markings; bred to lay and win prizes; excellent for table food, and lots of white eggs. Eggs, \$2 and \$3 per fifteen. Frank del Canto, Stonehouse, N. Y. 4-6

BABY CHICKS.

BABY CHICKS AND eight-week-old chicks. Barred Rocks and Silver Laced Wyandottes. Price reasonable. Aurel Rockey, Dakota, Ill. 2-6

BABY CHICKS — From pure bred, free range stock. Barred Rocks and R. C. Reds, 14c each; White Leghorns, 12c each. Safe delivery guaranteed. Order now. F. M. Pfeiderer, Tiro, Ohio. 5-6

BABY CHICKS—S. C. W. Leghorns. Egg-land Hatchery, Mt. Vernon, Iowa. 3-6

200,000 CHICKS for sale at very reasonable prices. White Leghorns, Brown Leghorns and Anconas, the best stock in the country. Catalog free. Wyngarden Hatchery, Zeeland, Michigan. 4-6

50,000 BABY CHICKS—Two and four weeks chicks. S. C. White, Brown Leghorns, Black Minorcas, Barred Rocks; hatching eggs. Catalog, stamp. Failing Poultry Farm, La Fargeville, N. Y. 3-7

BARRED ROCK BABY CHICKS—12 cents; eggs, \$1 per 15; \$6 per 100. Elmer Lindstrom, Clinton, Mo. 5-6

5,000 WHITE LEGHORN chix reduced to \$12.50 per 100, postage prepaid, for June delivery. A. H. Schlosser & Son, Bettendorf, Iowa, Box B. 6

BABY CHICKS — Leghorns, \$9 per 100; Barred Rocks, \$10; Reds, White Rocks and Wyandottes, \$12; Anconas, Campines, Minorcas and Buff Orpingtons, \$13. Pound pullets for July delivery, \$7 per dozen. 3,000 excellent breeders for sale. The Delaware Hatchery, Delaware, Ohio. 6

IMPROVE YOUR POULTRY—My bred-to-ly Young's Strain White Leghorn and Ancona chicks are great money-makers. 30,000 strong, vigorous chicks for June delivery at reduced prices. Satisfaction guaranteed. Catalog. Holland Hatchery, R. No. 7, Holland, Mich. 5-6

BANTAMS.

WHITE CRESTED AND Bearded Polish Bantams. Cockerels for sale. Eggs \$2 and \$2.50 per 15. M. L. Musselman, 150 W. Fairview St., Bethlehem, Penna. 5-6

EGGS FROM HIGH-CLASS Buff Cochins Bantams. Pen 1, \$1.50 per 15; Pen 2, \$2 per 12. Den Tomlinson, Browns, Ill. 5-5

MOHAWK STRAINS SUPERIOR — Game and Cochins Bantams, state wants. Mohawk Bantam Yards, Schenectady, N. Y. 4-6

BANTAM SPECIALIST—Buff, Black, Partridge Cochins, Light and Dark Brahmas. I ship on approval. Circular free. Geo. C. Salmon, Port Dickinson, N. Y., Route 4. 1-17tf

BLACK TAILED JAPANESE Bantams—First and second prize pullet at Gault, second cockerel at Toronto, Ontario, 1916, and other show birds. Eggs, \$2 per 10. W. L. Richter, Kenwood Ave., Elkhart, Ind. 6

BANTAMS—GOOD BLACK Tailed Japanese or Buff Cochins cockerels now 85c. Bodine, Walnut, Ill. 6

WANTED—ALL KINDS of Bantams and a few pairs of white doves. State age, price, etc. Adams Bird Store, 121 Mulberry St., Newark, N. J. 6-8

BRAHMAS.

LIGHT BRAHMAS—At Cleveland we won 1st and 2d cock, 1st hen, 1st cockerel, 1st pullet. Hatching eggs, \$3 and \$5 per setting. Pullets and cockerels, \$5, \$7.50 and \$10 each. Geo. C. Wright & Son, 2335 Riverside Road, Lakewood, O. 5-18-tf

SUEPPEL'S DARK BRAHMAS are the champions of the world, having won 1st prizes at Panama Exposition, California, St. Louis and Chicago world shows. Best winter layers. Grand stock for sale. Eggs, \$5 per 15. John W. Sueppel, Iowa City, Ia. 4-6

LIGHT BRAHMAS exclusively 24 years—Eggs, 30, \$3; 100, \$8. Hilmen Gaarder, Kensett, Iowa. 5-6

LIGHT BRAHMAS — Eggs for hatching, from heavy laying strain. Eggs, 15, \$2; 30, \$3.75; 60, \$7.25; 100, \$11; 200, \$21. Henry Harnisch, Onalaska, Wis. 4-6

LIGHT BRAHMAS—Stock and eggs reasonable. Contents of breeding pens at bargain prices after June 15th. All stock trapped and pedigreed. Putnam & Sons, Harvard, Illinois. 6-8

BRAHMAS, LIGHT AND dark — Eggs, chicks, breeders. Catalog free. Riverdale Poultry Farm, Riverdale, N. J. 6

"MAMMOTH" LIGHT BRAHMAS — Winners everywhere, including Chicago. Bargains in breeders. Eggs at half price now. George Layman, Greenville, Ill. 6-8

BUTTERCUPS.

BUTTERCUP BARGAINS — Fifteen eggs, pens 1 and 2, \$6.00. Twenty-four July chicks, \$4.00. Hattie D. Reed, Marcellus, N. Y. 6

TRY THE BUTTERCUPS—My high-bred pen settings now \$2. E. McPherrin, Specialist, 1016 24th, Des Moines, Iowa. 6

LOYALTY OFFER—Buttercup eggs from my winners at \$2 per 15, if ordered direct from this ad. May or June. H. Court, Kankakee, Ill. 5-6

"VICTOR" BUTTERCUPS—Write for special prices on eggs from my Madison Square winners. Arthur Loper, Box J, Bridge Hampton, N. Y. 5-6

GOLD COIN BUTTERCUPS—See page 596. O. B. Disenroth, Lawrence, Mich. 1-18-1yr

BUTTERCUPS—BRED TO LAY and win; the kind you want. Stamp for booklet. Wm. Freise, La Crosse, Wis. 4-6

MY STOCK AGAIN wins display at Madison Square Garden; 2 cock, 1-4 hen, 5 cockerel, 1-3 pullet, 1-3 pen. Booklet; eggs, stock, baby chicks. Hattie D. Reed, Marcellus, N. Y. 5-6

CAMPINES.

GOLDEN CAMPINES — EGGS! Quality! Vigor! Prize stock. Carver's strain. \$2 and \$3 per 15. Nelson Bennett, Poughkeepsie, N. Y. 4-6

CORNISH.

WHITE CORNISH—Royal. Eggs, \$2 per 15; 50, \$5. Springbranch Poultry Farm, Belleville, Ohio. 4-6

DARK CORNISH—Many firsts and specials. Handsome booklet. Carl W. Beck, Table Rock, Neb. 4-6

DORKINGS

EGGS AT HALF PRICE remainder of season; \$2 per 13, \$3.50 per 26. From Westfall's champion Silver Gray Dorkings. No reserve. More first prizes, silver cups and specials at New York, Boston and Buffalo than all competitors combined. These are the chicks that grow two pounds at two months. A few choice birds for sale. No baby chicks. Watson Westfall, Sayre, Pa. 2-17-1yr

GAMES.

EGGS FROM CHOICE pen Invader B. B. Red Pit Games at \$1.50 per 13. Box 347, Gary, Ind. 4-6

HAMBURGS.

SILVER SPANGLED HAMBURGS. Black Diamond strain. Highest honors at Madison Square and leading shows of America. Eggs, \$3.00 and \$5.00 per 15. If you want the best and birds that can win in any competition, you should order stock or eggs from Will L. Clark, Sullivan, Ohio. 3-16tf

HOUDANS.

HOUDANS—278-egg strain Silver Spangled Hamburgs; trapped 7 years; eggs, chicks; circular. Fred Brenon, 122 N. Pleasant St., Watertown, N. Y. 5-6

HOUDAN AND SILVER Grey Dorking eggs, \$2 per 13. H. Merriam, Ashburnham, Mass. 4-6

HOUDANS—WINNING STRAIN—1st, 2nd cockerel, 1, 2nd pullet, 1st hen at Minneapolis; 1st cockerel, 1st, 2nd pullet, 1st hen at Milwaukee National Auditorium Show, 1918. Eggs, \$3. W. H. Hunt, River Falls, Wis. 4-6

LAKENVELDERS

LAKENVELDERS—EVERLASTING layers, supremely beautiful; eggs, \$2 for 15. Hermitage Farm, Millersburg, Ohio. 5-6

LAKENVELDERS—EGGS for hatching from famous layers. Catalog. C. E. Paterson, Cardington, Ohio. 4-6

LANGSHANS.

FOR SALE—WHITE Langshan stock; also eggs, \$6 per 100; baby chicks, \$15 per 100. Fred Wallace, Maryville, Mo., R. R. 3. 5-6

BLACK LANGSHAN EGGS—\$1.50 for 15. Order early. Mrs. John Henderson, Leland, Ill. 5-6

WHITE LANGSHANS of quality — A bargain in breeding stock and eggs. Alonzo Tyner, Greenfield, Ind. 6-8

TRAPNESTED BLACK LANGSHANS—200 to 273-egg strain. Setting, \$2 up. Catalog. Lorenz Co., Perryville, Mo. 6-8

S. C. WHITE LEGHORNS

S. C. WHITE LEGHORNS — Smith and Hering strains. Hatching eggs, \$6 per 100. Baby chicks, \$14 per 100. Four and six weeks old chicks. Write for circular. Breezy Hill Poultry Farm, Mokena, Ill. 5-7

WORLD'S RECORD LAYING strain Australians; setting, \$2. Philmon Goodell, Cohasset, Minn. 5-6

SINGLE COMB WHITE Leghorns—Large sized; 295-egg record; eggs, \$2 per 15; \$6 per 100; \$10 per 200; chicks, 20 cents each; prepaid. Mrs. E. R. Dees, Waltonville, Ill. 5

FOR SALE—100 Single Comb White Leghorn yearling hens at \$1.25 each. Highline Poultry Farm, Pisgah, Iowa. 5-7

S. C. W. LEGHORNS—Eggs for sale, \$5 per 100. Wm. Teuscher, Fisher, Ill. 4-6

BARRON-ENGLISH WHITE Leghorn hatching eggs and chicks, the big kind; up to 283 eggs (official) pedigree stock. Trapped for large winter eggs. Circular. L. W. Ranker, Box A, Tiffin, Ohio. 4-6

VINEWOOD UTILITY STRAIN Single Comb White Leghorns are bred for winter layers. Baby chicks and eggs for hatching. Vinewood Poultry Farm, Highland Park, Ill. 4-6

SINGLE COMB WHITE Leghorns. Grand quality eggs from selected matings, \$2 per 15. Special Exhibition Mating, \$3. Valentine Petzold, Bridgman, Mich. 4-6

EGGS FROM BARRON STRAIN, free range. Hogan tested White Leghorns. The kind that has broken many world's records. 15 eggs \$1.25; 30 eggs \$2.10; 4 dozen and up 90c per doz. Prepaid to destination by parcel post. Geo. Wiltsie, Route 1, Escanaba, Mich. 4-6

PULLETS FOR SALE—8-10 weeks old. Single Comb White Leghorns. Choice stock of the best laying strains. Circular. Harry F. Palmer, Middleport, N. Y. 6

EGGS, CHIX, STOCK reduced, from high-bred White Leghorns. Instructive circular. Dr. A. Frudhomme, Thurmont, Md. 6-8

S. C. W. LEGHORN cockerels — Barron strain. Early hatched, from 275 to 283-egg males; \$1 each, 6 for \$5. Thos. M. Keller, Dongola, Ill. 6-7

BARRON'S WHITE LEGHORNS—Special mated pens headed by males from heavy laying dams. All females trapped from first day of laying. Eggs, one-fifty per fifteen; eight dollars per hundred. F. W. James, Waukegan, Ill. 6

SINGLE COMB WHITE Leghorns — Young's. Fifteen eggs, \$2.50; fifty, \$7; hundred, \$12.50. June eggs half price. Twenty chicks with mother hen, \$5.50, record 274. Meadow Farm, Coulterville, Ill. 6

5,000 CHIX REDUCED to \$12.50 per 100, postage prepaid, for June delivery. A. H. Schlosser & Son, Bettendorf, Iowa, Box A. 6

SINGLE COMB WHITE LEGHORNS — Young's strain direct. 15 eggs, \$1; 50, \$3; 100, \$5. Order filled at once. Henry Heitkamp, New Bremen, Ohio. 6

BLANCHARD-WYCKOFF-BARRON heavy laying White Leghorns. 30 eggs, \$1.60; 100, \$4.50. Chicks, 25, \$3.50; 50, \$6.50; 100, \$12. Prompt shipments; safe delivery guaranteed. Catalog. Write. W. A. Albers, Lombard, Ill. 6

S. C. BROWN LEGHORNS

S. C. BROWN LEGHORNS—Heavy laying, winning strain. Eggs now. Mating list. Stock after June 1st. Albert M. Peterson, Bradford, Ill. 5-6

WERNER'S QUALITY S. C. Brown Leghorns. Both lines. Utility, eggs, \$2, \$3; Exhibition, \$5 per 15, guaranteed. Wm. B. Werner, Box K, Winamac, Ind. 4-6

S. C. BROWN Leghorns. J. T. Alexander, 1814 Darrow, Evanston, Ill. 4-6

R. C. BROWN LEGHORNS

HERSEY'S SILVER CUP Strain. Single Comb Brown Leghorns, Rose Comb Brown Leghorns. Line bred for 30 years. Winners of 25 cups. 10 medals in best shows. Eggs \$2 per 15; \$10 per 100. Hersey's Poultry Farms, Parkersburg, Iowa. 4-6

S. C. BUFF LEGHORNS

EGG-BRED SINGLE COMB Buff Leghorns. Winners at best shows. Leaders at laying contests. Breeders, eggs, chicks, priced right. Lea Munger, De Kalb, Ill. 5-6

BUSINESS BEAUTY BUFF Leghorns from large eggs from mature, typical, robust, prolific hens. Both combs. Out-bred, pedigreed. Catalog. Joseph Benedict, Chevy Chase, Md. 1-18-tf

SINGLE COMB BUFF Leghorns. 100 eggs, \$6; 300, \$15. Stock for sale, free circular. F. J. Rosenberger, Tiffin, Ohio. 4-6

R. C. BUFF LEGHORNS

ROSE COMB BUFF Leghorns — Winners; great layers. Eggs, fowls. Write. Harry G. Crumbling, Mt. Holly Springs, Camb. Co., Pa. 4-6

BUSINESS BEAUTY — See Single Comb class. 1-18-tf

ROSE COMB BUFF LEGHORNS—Stock and eggs. Catalog. Howard J. Fisk, Falconer, N. Y. 3-18-1yr

BLACK LEGHORNS

BLACK LEGHORN HENS for sale—Good ones, \$1.50 up. Milo L. Myers, Marysville, Ohio. 6-7

LEGHORNS—SEVERAL VARIETIES

50,000 LEGHORNS, Single Comb White and Brown. Stock. Eggs. Day-old to four weeks chicks. Catalogue stamp. Failing Poultry Farm, Lafargeville, N. Y. 4-7

SINGLE AND ROSE COMB White Leghorns. Tom Barron's Strain, Imported Direct. Weighing 5 to 7 lbs. each. Extra large comb. Winners in all the national laying contests. Eggs, \$2 per 15; \$10 per 100. Hersey's Poultry Farms, Parkersburg, Ia. 4-6

BLACK MINORCAS

MINORCAS—SINGLE COMB. Black. Day-old to four weeks chicks. Stock. Eggs. Catalog, stamp. Failing Poultry Farm, La Fargeville, New York. 5-7

SINGLE COMB BLACK Minorca eggs at bargain prices. Circular. L. C. St. John, Waynesville, O. 5-7

ROSE COMB BLACK Minorcas. Exhibition and utility stock, and eggs for hatching at all times. Send for our large catalog. G. A. Clark, Seymour, Ind. 6-17-1yr

WINNERS AT PANAMA and official 200-egg strain, National egg-laying contest, Missouri, up to 272. H. A. Kuhn, Burlington, Wis. 2-18-1yr

ROSE COMB BLACK Minorcas. Eggs for hatching from my choice matings. Good layers of large white eggs, and Exhibition qualities. War time prices. Philip J. Minch, Route 4, Painesville, Ohio. 4-6

SINGLE COMB BLACK Minorca eggs for hatching, \$2.00 setting. W. W. Gardner, Scottsville, Ky. 4-6

THE EXCELSIOR AND Northup strains S. C. Black Minorcas. "The strain with the famous egg and show records." After June first eggs and stock at half price. Onondaga Minorca Yards, Syracuse, N. Y., Jos. G. Kren, Prop. 4-6

ROSE COMB BLACK Minorcas — Trapped; prize winners. Stock for sale. Geo. Konrad, Waukesha, Wis., R. 1. 6-8

S. C. BLACK MINORCAS — Fifteen eggs for two dollars. Special June price. Large heavy laying strain. Also stock for sale. Henry Wallis, Delavan, Wis. 6

S. C. BLACK MINORCAS — Breeding is over. We offer our breeding hens, \$3.50-\$5 each. Some cost us \$10 each, and all are worth double prices asked. Several have won Chicago. Two choice males also for sale. Pratt Bros., Glen Ellyn, Ill. 6

BUFF MINORCAS

BUFF MINORCAS—See display ad page 634. Walhalla Poultry Farm. 3-18-tf

SINGLE COMB BUFF Minorcas — Good winter layers. 15 eggs for \$2. Fred P. Dietz, Mt. Vernon, Ind. 6-8

WHITE MINORCAS

ROSE COMB WHITE MINORCAS — Get prices of my 1917 Chicago winners. I have some choice matings and can furnish large white eggs that will hatch. W. E. Haase, Omro, Wis. 5-7

MEISELBACH'S SINGLE and Rose Comb White Minorcas. Eggs at half price. Fine breeding stock reasonable. Harry Meiselbach, Melrose Park, Ill. 6

BUFF ORPINGTONS

SINGLE COMB BUFF Orpingtons—Owen strain. Large, well shaped, good laying strain. Eggs, 15, \$1; 30, \$2; 50, \$3. Charlie McGrath, Scioto Mills, Ill. 4-7

SINGLE COMB BUFF ORPINGTON Cockerels. Martz strain, \$5. Eggs, \$2.50 per setting. John W. Fagan, Frederick, Ill. 4-6

WHITE ORPINGTONS

ALDRICH-OWEN FARMS White Orpingtons. Prize winners. For Sale—Hens, Pullets, Eggs. Choice matings. \$2, 15; \$7.50, 100. Closely culled range flock, \$5, 100. Sunnyside Flock, Sandwich, Ill. 5-6

HATCHING EGGS FROM Aldrich Strain White Orpingtons, which won all first, special cockerel and silver medal at Official State Show, 1917, \$3 and \$5 per 15. Mrs. Raymond Rouelle, Wallingford, Conn. 4-6

PRIZE WINNING SINGLE Comb White Orpingtons; great layers; eggs, \$1.50 to \$5; chicks, 25 for \$5; cockerels for sale. W. A. Burris, Bluffton, Ind. 4-6

WHITE ORPINGTONS—As good as the best, better than most. Illustrated catalog free. Sunnyfields Farm, Wallingford, Conn. 4-6

SINGLE COMB WHITE Orpington Eggs from vigorous, healthy stock. Splendid type and color. \$2, 15; \$7, 100. Mrs. E. C. Webster, Charles City, Iowa. 4-6

KELLERSTRASS STRAIN SINGLE Comb White Orpingtons. Large boned, well shaped birds. \$3 per 15 eggs. Charlie McGrath, Scioto Mills, Ill. 4-6

ORPINGTONS—SEVERAL VARIETIES

MAMMOTH STRAIN WHITE, Black and Buff Orpingtons. Eggs, \$2 per 15; \$10 per 100, from exhibition stock. Hersey's Poultry Farms, Parkersburg, Iowa. 4-6

POLISH.

WHITE CRESTED BLACK, Silver and Buff Polish. Prize winners for 20 years. Stock and eggs reasonable. Kakuska, Berwyn, Ill. 4-6

TWO AND THREE DOLLARS, fifteen; seven varieties Polish eggs, postpaid. L. Leavitt, Smithfield, Ill. 4-6

RHODE ISLAND REDS

HATCHING EGGS — S. C. Reds — White Leghorns, large thorobred heavy winter layers, 15, \$2.50; 30, \$4.50. Grant M. Frick, Aurora, Ill. 5-6

PERRY'S SINGLE COMB REDS—Eggs after May 1st, pen run, 10 cents each; incubator eggs, \$6 per 100. Freed Perry, Ottawa, Ill., R. 31. 5-7

ROSE COMB REDS—Eggs from three grand pens. Write for Mating List. J. M. Holt, Marshalltown, Iowa. 4-6

ROSE COMB RED EGGS from carefully mated pens, bred for laying for 15 years. Winners wherever shown. Busy Bee Henery, Bridgman, Mich. 4-6

ROSE AND S. C. REDS—Size and color that will please the eye. Proven winners and breeders in any competition. Eggs, \$2 per 15; \$10 per 100. Hersey's Poultry Farms, Parkersburg, Iowa. 4-6

REDS, BOTH COMBS, eggs, chicks, breeders; catalog free. Riverdale Poultry Farm, Riverdale, N. J. 6

SINGLE COMB REDS—15 eggs, postpaid, \$2. Won championship cup Chicago, 1916. Geo. Demlow, Elgin, Ill. 5-6

RHODE ISLAND WHITES

RHODE ISLAND WHITES—Heavy laying strain. Eggs, fifteen for one-fifty. Fred M. Haas, Machias, N. Y. 5-7

HEADQUARTERS FOR ROSE Comb Rhode Island Whites. I am the oldest Breeder of this breed. Eggs and stock for sale from this wonderful laying strain. Catalog free. C. A. Foster, Colonial Poultry Yards, Akron, Ohio. 1-6

ROSE COMB RHODE ISLAND White cockerels, hens and pullets, \$2, \$3, \$5 each, from prize winning strains. Eggs, 15, \$2; 50, \$5; 100, \$9. Col. Warren Russell, Winfield, Kan. 3-6

WHITE QUEEN RHODE ISLAND Whites—Heavy winter layers; both combs. 15 eggs, \$1; 50, \$3; 100, \$5. Breeders half price. Fred Havig, Route 2AA, Osage, Iowa. 6

THE GREAT RHODE ISLAND White farm. Eggs reduced, \$1 per 15. Rose and Single Comb. Stock \$6 per trio; \$10 per pen. Catalog free. Henry Eichelmann, Waterloo, Ill. 6-8

BARRED PLYMOUTH ROCKS

BARRED ROCKS—DAY-OLD to four weeks chicks. Stock. Eggs. Catalog, stamp. Failing Poultry Farm, La Fargeville, New York. 5-7

GRIM'S BARRED ROCKS—Myers' Lady Beautiful strain direct, and Ringlets. Prize stock, heavy layers. Eggs, \$2.25 and \$3 fifteen. Frank C. Grim, Staunton, Va. 5-6

EGGS—\$6 PER 100. \$1.25 per setting. Mammoth Barred Rock chickens, have had them weigh to 16 lbs. Howard Irvin, Polo, Ill. 4-7

IMPERIAL RINGLET Barred Rocks—Large heavy boned stock. Eggs, 15, \$2; 30, \$4. Charlie McGrath, Scioto Mills, Ill. 4-6

LARGE, BEAUTIFUL, VIGOROUS Bred-to-Lay Barred Rocks, Park's strain exclusively (from best pens direct). Heavy winter layers. Eggs: 15, \$2; 30, \$3.50; 50, \$5; 100, \$9. W. G. Meradith, Danvers, Ill. 4-6

BARRED PLYMOUTH ROCKS—E. B. Thompson Ringlet strain, direct. 15 eggs, \$3; 30 eggs, \$5; prepaid. Chas. Woodfill, Madison, Ind. 4-6

BRED-TO-LAY BARRED ROCKS—Park's strain direct. 15 eggs, \$1; 100, \$6. J. C. Scrivner, Dahlgren, Ill. 4-6

BARRED ROCK COCKERELS—Purchased this spring as baby chicks, from Parks' best pens, \$2 each. Some others from Parks' best stock (not direct), \$1 each, 6 for \$5. Thos. M. Keller, Dongola, Ill. 6-7

BUFF PLYMOUTH ROCKS

BUFF ROCKS—BEST pens of selected layers; fifteen eggs for \$1. H. G. Liddle, Wever, Iowa. 2-7

PARTRIDGE PLYMOUTH ROCKS

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 634. 5-15-tf

OWN-LAND FARM'S American Beauty Partridge Rocks—Boston winners, 1918. South Hammond, New York. 4-6

ILLINOIS STATE SHOW Winners—Eggs, \$2.50 per 15, prepaid. Special price this month, pullets, 2 for \$5. Catalog free. John Hacker, Dept. A, Marissa, Ill. 4-6

WHITE PLYMOUTH ROCKS

LANDIS WHITE ROCKS, winners at Indianapolis, Chicago, for past twenty years; extra fine show and breeding birds at fair prices; mention what you want from this ad; none better; must please; four select pens; eggs, \$5 per 15. John Landis, Edinburg, Ind. 2-7

WHITE ROCKS—EGGS for hatching that will hatch. One price only. Free circular. Guaranteed service. Hoch & Frederick, Box O, Chambersburg, Pa. 3-6

WHITE ROCKS—Farm raised. None others kept, thus insuring them absolutely pure. Large yards keeping them clean and healthy. Eggs, \$2 and \$3 per 15. A. W. Harvey, Stonington, Conn. 4-6

FISHEL'S WHITE ROCKS—15 eggs, \$1; 50, \$3; 100, \$6. Order filled at once. Henry Heitkamp, New Bremen, Ohio. 6

CHADWELL'S FAMOUS WHITE Rocks win, lay and pay. Special values in eggs, \$1.50, \$3 and \$5 per 15. A. J. Chadwell, Jacksboro, Tenn. 6-7

PLYMOUTH ROCKS—SEVERAL VAR.

EGGS FROM LARGE high-scoring Barred, Buff and White Plymouth Rocks. Eggs, \$1 per 15; \$2.50 per 50. A. Matthews, Mt. Union, Iowa. 4-6

SPECKLED SUSSEX

MADISON SQUARE GARDEN, 1917-1918, 1st cockerel, 3d cock; Palace, 1916, 2d cockerel, 2d hen. Three pens mated to produce more winners. Eggs, \$3 per 15. Joseph Preece, Fort Washington, Pa. 4-6

BUFF WYANDOTTES

EGG-BRED BUFF WYANDOTTES—Winners last National Club show. Breeders, eggs, chicks, priced right. Lea Munger, De Kalb, Ill. 5-6

GOLDEN WYANDOTTES

GOLDEN WYANDOTTE cockerels, \$3, \$5. Cocks, \$5. Eggs, \$1.50, 15; \$7 for 100. Anna Chase, Centreville, Pa. 5-7

GOLDEN LACED WYANDOTTES—Fifteen eggs, \$2. Alvin J. Bozarth, Boonville, Mo. 6

PARTRIDGE WYANDOTTES

PREMIER PARTRIDGE Wyandotte eggs from excellent matings. Lloyd Caldwell, Neoga, Ill. 5-6

SILVER LACED WYANDOTTES

SILVER LACED WYANDOTTE Eggs—\$2, \$3 and \$5 per 15. Splendid breeding pullets for sale. Circular free. Satisfaction guaranteed. B. A. Romich, Creston, O. 5-6

EGGS FROM HEAVY layers, direct from winners. Breeding Tarbox strain. Louis H. Eickmeyer, R. 8, Watertown, Wis. 4-6

SILVER WYANDOTTE EGGS, \$2 per setting. From layers and show birds. M. Guy Eby, Cassopolis, Mich. 4-6

WHITE WYANDOTTES

STANDARD BRED WHITE Wyandottes—Records 176 to 293. Eggs and stock from these birds bred for 12 years with the sole purpose of making a great production strain. F. K. Cooke, Winnetka, Ill. 5-7

WHITE WYANDOTTE PULLETS—Show qualities and eggs. Trapped ten years. Won first on show, also on eggs. Hatching eggs. Choice breeders. Miss Marion I. Moore, Hamburg, N. Y. 4-6

REGAL WHITE WYANDOTTES—Eggs from selected breeders and layers. Lloyd Caldwell, Neoga, Ill. 5-6

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MARTIN'S WHITE WYANDOTTES—Eggs, chicks, breeders; catalog free. Riverdale Poultry Farm, Riverdale, N. J. 6

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EGGS FROM PURE White Wyandottes—\$6 per 100. Mrs. C. C. Calhoun, Dow, Ill. 4-6

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SILVER AND PARTRIDGE Wyandottes—If you want some of the best birds raised on Pacific Coast, write me your needs. Eggs, \$3.50 per setting. Guarantee satisfaction. The Idle Hour Poultry Farm, McCoy, Ore. 4-6

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MAMMOTH TOULOUSE GEESE—Egg. from choice stock, 35 cents each. Spring-branch Poultry Farm, Belleville, O. 4-6

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THIRTEEN VARIETIES—Toy and Large Ducks. Six varieties Geese. Twenty-five varieties Chickens, including Brahmas, Rocks, Frizzles, Silkes, Bantams, State Fair winners. Circulars for stamp. Lee Kyburz, Honey Creek, Wis. 4-6

TURKEYS

AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our ad. on page 634. 2-ft

MAMMOTH BRONZE TURKEY eggs—From the long established yards of Sunnyside. Good healthy stock; farm range; price per setting of 12, \$3.25. Sunnyside Poultry Yards, Calamine, Wis. 5-6

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BRONZE 55-POUND strain Best toms, \$12. Lorenz Co., Perryville, Mo. 6

MAMMOTH BRONZE TURKEYS—Flocks headed by 35 to 45-lb. champion toms. Eggs now half price, \$2.50 per 11. Can make shipments on short notice. Fair Oaks Farms, Waukegan, Ill. 6

WHITE HOLLAND TURKEYS and Embden Geese. Closing out reasonable. Grace Garnett, Marion, Mo. 6

AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 634. 2-15-ft

PHEASANTS

PHEASANT EGGS—GOLDEN and Chinese Ringneck. Wm. F. Grimm, Antigo, Wis. 4-6

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WANTED—5,000 COMMON or Homer Pigeons. Pay at least 25c pair. Market poultry wanted. D. Gilbert, 1123 Palmer St., Philadelphia, Pa. 11

I OFFER GUARANTEED MATED Homers in any quantity at \$1.00 per pair. Beautiful White Homers, \$1.50 pair. Squab companies challenged to produce better stock at twice this price. Get my prices on Runts, Carneaux Maltese hens and save dollars. Squab Manual, 25c. Charles A. Gilbert, 346 No. American St., Philadelphia, Pa. 11

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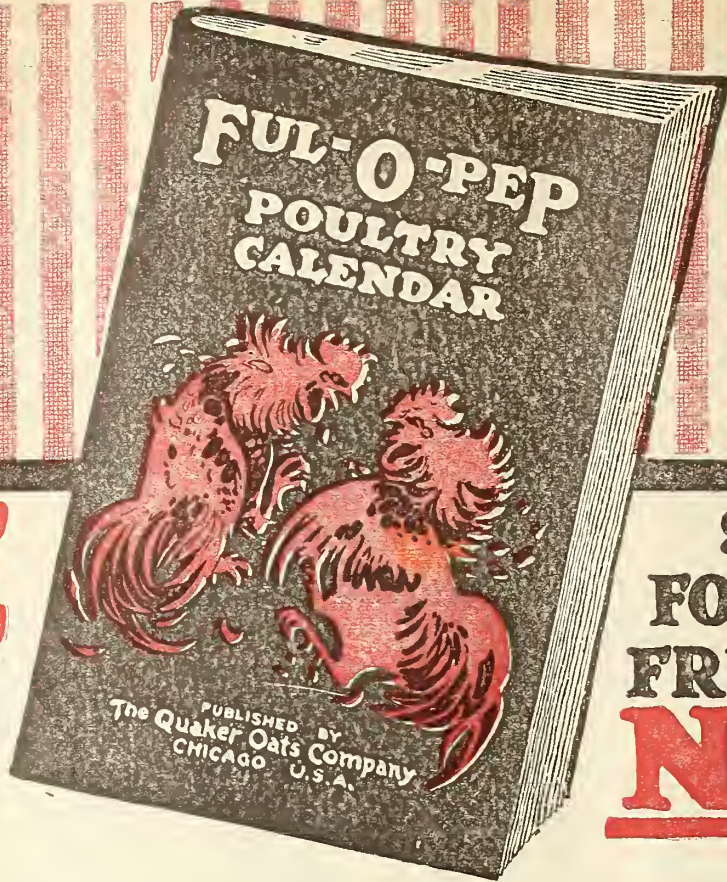
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AMERICAN POULTRY JOURNAL



VOL. 49, NO. 7

JULY, 1918



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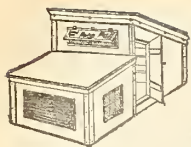
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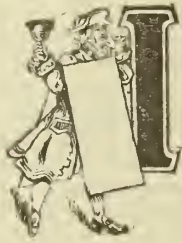
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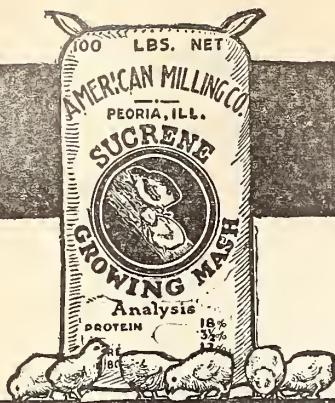


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AMERICAN POULTRY JOURNAL

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879.

Volume 49

Chicago, Ill., July, 1918

No. 7

More Geese Should Be Raised On Farms

Our Geese Get the Principal Part of Their Living from a Swamp and a Grassy Meadow. We Do Not Feed Them Except in Winter, When Corn Is Their Main Food. First Prize Article in Monthly Contest. *By C. M. Brumfield, Van Bibber, Md.*

FARMERS as a rule do not favor raising geese on the farm because of the destruction they wage on crops. Before I learned more of the nature of this fowl, thru personal experience in raising them, I agreed with the farmer. I have seen geese mowing down young tender wheat, corn and other grains, nipping as they go, and later on in the season when the grain was maturing, they would reach up the stack and reap it of the grain.

A few years ago, when we moved back from the city to the farm, I had two geese and a gander presented me and started out a novice in the goose business, tho I had formerly had experience with other poultry. We soon discovered that the goose family is the easiest fowl to keep within the confines of a fenced range and accordingly put ours in a "medder lot," with only an old "worm fence" on one side, board and wire fence on the other sides, from which they never escape, tho pigs, calves and larger stock frequently make exit and roam on forbidden crops.

In the lot is a swamp, from which the geese get their living principally, aided, of course, by the good grass in the meadow. We never feed our flock of geese except in winter, when corn is their main food, fed on the ear—and they can shell it better than a corn sheller. In these days of high priced grain, the young goslings find a welcome on our plantation that we cannot extend to the other fowls, which have to be fed expensive grains.

The goose begins laying early in March, as a rule, and where one has a flock, it is a good plan to set all the eggs possible under one goose as soon as one becomes broody, allowing the others to go on laying a second time. If broken up from sitting they will lay the third time. Usually a goose lays from 16 to 20 eggs the first time, which is a good nestful for one to sit upon.

With my original flock of two geese and a gander, I soon found that one of the geese persisted in laying soft shelled eggs or rough shelled ones, which was quite a disappointment, but she proved so useful as a sitter that I felt she was not wasting her time as I might have felt had I set the other, having only the two geese. Where the number of geese is limited and the geese cannot be spared for sitting, it is a good plan to put the eggs under a hen, five or six eggs making a good nestful for an ordinary sized hen, tho, of course, goose eggs vary in size. I used the soft shelled eggs for cooking and found one of them equal to three hen eggs. I do not consider them good eating, as they are slightly strong in flavor if eaten alone, but they are fine for use in baking. We have a city friend, however, who prefers goose eggs to hen's eggs and I am sure would take our entire crop if we would dispose of them in that way. Each year at Easter he solicits us to send him any number we can spare. At that season of the year we are using all the eggs our geese lay for sitting, but this year we sent him three beautiful large goose eggs. He wrote us a very ardent appreciation of the

eggs and said they partially made up a very excellent breakfast Easter morning!

The second time, the goose usually lays from 9 to 12 eggs, and will lay from 6 to 9 the third time. The eggs require four weeks to hatch, and if under hens should be wet frequently (each day if possible) in warm water to help moisten and soften the extremely tough shells. Goose nature provides a way for doing this, since the sitting goose goes off her nest each day and into the water, coming back to the eggs with wet downy feathers.

It has been said that when hatched a gosling is practically raised, but I will add a little warning to the novice. First, the goslings require plenty of water to drink, but not to swim in while little, as they will surely die if "wet over the back." They must have plenty of sand and charcoal for a few days and they should not be turned out on damp ground while too young. The small gosling gets cold very easily and it is fatal to put them out before the third day, unless the weather is very warm. The goslings are also very easily injured. A slight fall, or any falling fruit, such as apples from trees, will make a quick end of a flock of goslings, as a friend of ours found to her dismay when she placed the gosling pen in the orchard.

Occasionally, the goslings are troubled with lice when hatched under hens. This trouble is not usually noticed until one sees them losing weight each day—as "light as a feather" as we say, in which case look for lice. I use kerosene on the hens and a kerosene cloth rubbed over the down of the gosling with good success, but keep a lookout, and repeat as often as necessary.

After the sand and charcoal stage, turn the goslings out. I make a pen with wide boards, moving it as often as necessary. When the goslings are big enough to climb over the boards, they are big enough to go at large, ranging about, nipping grass, catching bugs, worms, etc. After a few weeks one is disgusted to find the pretty fluffy yellow things changed into great rangy, ill-shaped beings; but when they feather up, they again become good to look at, grow very fast and by Thanksgiving or Christmas usually weigh from 12 to 16 pounds, and sometimes more than that.

The goose loses its hatchability more quickly than any other egg and should be set soon after being laid. In our locality, snappers in the swamps are the worst enemies of the goslings. Several of my half-grown ones last year made fine eating for snappers, but the flock that escaped made fine Christmas dinners for a number of families, and I will add there is no finer eating than young goose, well fattened with corn for a few weeks before killing. An old goose is not good to eat, the meat being strong, but the older the better for breeding stock if kept by themselves. A very old gander, however, is apt to be cross with other fowls where all are kept together. It is said that geese live to be 100 years old, but I am not giving this out as my own statement—not having had any



ONE OF OWEN FARMS' PRIZE WINNING PENS OF S. C. WHITE ORPINGTONS. NOW THE PROPERTY OF ROBADEL POULTRY FARM, A. C. ROBERTSON, OWNER, COS COB, CONN. MR. ROBERTSON HAS PURCHASED OWEN FARMS ENTIRE FLOCK OF WHITE ORPINGTONS.

handed down from great grandfolks as a family heirloom.

The mature stock should be picked every six weeks, beginning about April or May and continuing until cold weather. All the under down and feathers should be removed. This adds greatly to the comfort of the fowl as well as adding to the profit of the business. Geese are uncomfortably warm with a great coat of down on in summer and appear greatly relieved with some of their "clothing" removed. The picking of six geese or six pickings of one goose makes sufficient good-downy feathers for a large pillow. The picking of live geese is not inhumane as some people seem to think. From personal experience I know that the goose on being picked utters no "protest or plaint." All the cackling and racket comes from the remaining flock, yet to be, or previously picked. We pick them out of doors on a calm day, placing the feathers in large wash tubs or other receptacles until ready to bag them. A humorist in our neighborhood once said that the meanest people he had ever known were three women who, while picking geese, stopped to chase one escaping feather all around the yard. Our experience is that some feathers escape, even on a calm day, but we hang on to what we have and let them go.

The goose feathers her nest with down, and makes her nest upon the earth. If the eggs are to be placed under hens, I make the nest upon the ground, if possible; but if not, I put sods of earth in the nest. A goose's nest is not hard to find like those of the turkey and guinea fowl. If a barrel is placed conveniently, the goose immediately chooses it the first time, later she will go off to a wood or swamp, but Father Gander stands near by, giving her hiding place away with his cackle. This year we had an interesting experience with a goose who laid her first litter of eggs in the barrel we had left for her nest from which we took the egg she laid each day, but for the next lot Mrs. Goose went off to

the swamp and fixed her nest on a dry bunch of tussocks, surrounded by *real* swamp. My husband put on his rubber boots and secured five eggs of the second laying, which I immediately placed under a turkey hen that had stolen a nest to sit on 11 of her eggs, and the turkey hen brought out 5 goslings and 8 turkeys. Later my husband went wading out again to visit Mrs. Goose and she was then sitting on the 4 remaining eggs of her second litter. We allowed her to have these eggs in her swampy nest until within one day or so of hatching time, when my husband took another wade and transferred the eggs to a sitting hen that was just about to come off with a brood of guineas, and we now have three little goslings from the four eggs. It did seem heartless to thus rob Mrs. Goose, but she could not have brought her family to safety thru the swamp, and as a wise old aunt of mine used to say: "One has to practice cruelty somewhat in the poultry business."

Goslings do not need a hen to mother them nor to care for them, as they take care of themselves very well after a short time. I propose to keep mine away from the parents until of sufficient size that they can prove themselves too much for the snappers; then all the flock, young and old, can graze contentedly together in the meadow. When the old stock is allowed to range with the goslings, the gander takes his full share of responsibility in rearing the family.

Sometimes in hatching, the goslings need a little assistance in getting out of the shell, especially if the eggs are hatched under hens and not enough moisture has been supplied, but as a rule they hatch well and good strong young ones. A woman of my acquaintance who has been raising geese for some years had a goose hatch 9 goslings from 8 eggs, one egg being a double one. Two perfectly good goslings hatched from the double egg. I might add, however, that this friend is one of those sunny faced mortals who always and under all circumstances get the most out of life.

Cull the Flock Often and with Care

No One Can Afford to Be Feeding Deformed Birds or Those of Depleted Vitality. Only Vigorous, Quickly Grown Stock Should Be Retained. Second Prize Article American Poultry Journal Monthly Contest. *By Otto E. Hackman, Ft. Wayne, Ind.*

STRICT culling of the young stock is a necessity if progress in breeding is to result. Neglect in weeding out undesirable specimens will prevent progress in breeding and in profit making. We must keep culling out weak, undersized chicks thruout the growing season. All chicks which fail to grow and develop quickly will, by being forced while still young, often attain fairly good size and general appearance, but all such birds should be fed only long enough to put into marketable condition. Cull out all undersized chicks and place them in a flock by themselves, where they should be fed a special fattening ration until of marketable size.

There are various reasons for frequent culling of the flock. A bunch of culls running with good birds, invariably detracts from the good appearance of the rest of the flock. A few undersized, runty chicks can mar the beauty of an otherwise fine looking flock of birds. Nothing is gained by holding them over longer than just time enough to fit them for market. Poultry feeds are scarce and high and no one can afford in these days to be feeding deformed birds or those of depleted vitality. Only vigorous, quickly grown stock could be retained.

It may be well to state here a cause of weakness in the young stock as hot weather comes on—a cause which many amateurs are apt to overlook. Overcrowding is fatal to the proper development of growing chicks, and with it, should be classed overheating, which is a direct result of overcrowding chicks in small, filthy, poorly ventilated brood coops on sultry nights. Under such conditions the chicks "sweat" excessively which affects the vitality and weakens the chicks. When thus overheated, the chicks are also easily chilled when they rush out into the early morning air, and frequently colds result.

Experienced poultrymen can easily detect a weak or ailing chick, but the novice is not so apt at the culling process and is prone to overlook weakness or under-development in chicks, and keep on feeding birds which should either be marketed or sent to the family table early in the season. A good habit for the man raising poultry to acquire is to notice the actions of the chicks. A good healthy chicken is always busy. The weak, under-sized chick is seldom busy, usually displaying no ambition to run about and scratch. He spends the greater part of the day sitting around, or standing on one leg, while all the healthy chicks are constantly on the go, in quest of bugs and insects. The weak chick mopes about and seldom has a full crop.

Scanty feathering or "slow feathering" is another indication of weakness in chicks. When the chicks appear to have difficulty in feathering or the feathers are coarse and rough appearing, the chick's vitality is not of the best and it should be placed in the cull pen and fattened for market or the table. A small shrunken body that seems to take on no flesh, and a thin crow head, dull eyes, thin shanks, weak piping voice, and an inclination to "squat" instead of run about are all indications of a lack of vitality and chicks possessing these symptoms would be culled out at the earliest possible moment. Excessively long wings and small bodies are also noticeable in some chicks and are indications of bodily weakness.

The healthy vigorous chick is always noticeable by its show of life. The body is full size for the age, the feathers bright looking and smooth in appearance, the legs are sturdy and the eyes bright. Particularly should the legs be big and husky, of a size sufficient to support a well developed frame. Thin, puny legs are not apt to carry about healthy vigorous bodies. For this reason, grass range for growing chicks is particularly desirable, where they can exercise freely and range about in

the grass, getting their fill of bugs and worms. A healthy chick on range manages to pick up and scratch out a goodly amount of food which his body requires for its proper development and which is not always supplied to penned up flocks where range is impossible. A grassy field where the chicks may enjoy both sun and shade is ideal for growing chicks. If good wholesome feed is supplied them in quantity, as well as plenty of drinking water, the percentage of chicks to be culled out under these conditions will be very small, if indeed there are any weaklings in the flock.

There is the very great advantage in separating the culls from the well developed chicks, in that both flocks will respond in better growth and development because of the separation. There is little or no chance for the weakling as long as he is crowded about and pushed away from the feed hoppers by stronger, larger chicks. On the other hand, the healthy chick always looks better and grows faster if the flock is in good physical condition as a whole. Keeping the two flocks separate will thus aid in the development of both, and the quicker the weaklings are in condition and sent to

market, the better it will be for the poultryman's pocketbook.

Chickens are naturally ardent daylight savers and they go to bed very soon after the sun sinks below the western horizon. They are ready to begin their day's work as soon as it is light enough to see to scratch. Every minute they are kept shut up in a close coop after that time retards their best development, especially is this true during the hot summer weather. It is difficult to put flesh on a bird that is kept shut up for an hour or more when it is eager and restless to get out in the open. Just open the coop some morning when you oversleep and watch the rush to get out and stretch, to flap wings, and crane necks, in an effort to recover from staying overlong in too close quarters. Make every effort to have the roosting quarters of chicks airy and of sufficient size to allow plenty of room for the chicks moving about. Put them in open-front colony houses as soon as they are sufficiently developed to remove from brood coops. Supply plenty of roosting room and get them out on range as early as possible in the morning. There will be few weaklings in the flock if these simple precautions are taken.

Encourage Experienced Poultrymen

Let Us Not Allow Large Practical Plants to Go into the Discard. *By J. D. Simmers, Baltimore, Md.*

I HAVE lately read several reports of talks and lectures given in various parts of the country relative to the plans now on foot for the conduct of "the war after the war" in regard to the expansion of business when peace shall have been declared. As one who has already found it necessary to give up my business because of unfavorable conditions I have been greatly interested to find that in practically all the foreign countries and in some respects in our own country definite plans have already been formulated for the reorganization of business.

At the beginning of the war I was operating a market poultry plant, but, as has been the case with many others in this

line, I gave it up and went to the city to work for a salary. It would be difficult to estimate the number who within the past two years have found it necessary to give up poultry keeping. I understand that in the allied countries there are no market poultry plants in existence today, and that in nearly every case where poultry is being kept, it is on a back lot scale. It would thus appear from all the available information that there is actually a very grave shortage in poultry, notwithstanding the fact that both poultry and eggs are low in price in comparison with their food value and the prices on other foods.

There are so few foods comparable in value with eggs, that a shortage in poultry would prove a real calamity, and for this reason I watch with alarm the breaking up of established plants, and the advocacy of back yard flocks to take their places. It seems to me there is coming a time when we shall need poultry raised on a large scale on market plants, since there is really no better food to be had at less cost. Fowls consume a grade of grain and feedstuffs, which are not fit for human food and no one of intelligence can deny that they convert it into first-class human food. Why, therefore, should poultry keeping on a large scale be discouraged with nothing in sight but the occasional small flock to take the place of these big plants? All lines of "big business" are making their plans to meet after war conditions, but so far as one is able to see from the surface, poultrymen are permitting their business to become completely disorganized and put out of the running, and this at a time when every effort should be put forward to combat unfavorable conditions. There is an old adage to the effect that "Heaven helps those who help themselves," and I think it applies very well in this case. Certainly no one can save the poultry business unless the poultry keepers are ready and willing to save it for themselves.

Literature is being circulated thru the country to the effect that the big grain farms of the Middle West can raise enough poultry to supply our whole people and that these farms are today shipping such vast stocks of poultry and eggs into storage that we need have no alarm as to future supplies. The Middle West and great Southwest have been supplying the storage people with eggs for many years, and while we frequently read reports that there is greatly lessened production of poultry and eggs thru those sections at the present time, yet they may be able to supply all eggs required for storage. In Eastern cities, however, vast quantities of poultry and eggs are consumed which have never occupied space in storage and comprise a supply which if cut off by lessened production on market plants means a tremendous loss of an important food supply. There is no way to estimate the amount of poultry and eggs raised near and eaten by inhabit-



ants of the thickly populated communities of the East. Before the war there were all thru the eastern half of this country immense market poultry plants, some of which were selling for immediate consumption as high as one million and a half dozens of eggs annually and yet these plants were unable to supply the demand for eggs in the East, and thousands of storage eggs were imported from the Middle West to meet the deficiency. If the market plants of the East are put out of the running, who is going to supply the eggs for the Eastern cities and thickly populated communities? From reports that have come to us thru reliable agencies, poultry holdings have been cut down on Middle Western farms from thirty to sixty percent, so it does not appear that we can look for our poultry and egg supply from these sources by way of the cold storage route.

I notice that Edward Brown, of England, who is lecturing in this country, on the poultry situation, is discouraging market poultry keeping. In a statement widely quoted, he says: "I would rather have one hundred men keeping ten hens each, than one man keeping one thousand hens." I believe in encouraging every man, woman or child to keep back yard poultry, who can possibly do so, but I believe it a mistake to do so at the expense of the specialty producer. If every city man with a back lot were to keep a flock of ten hens, there would still be call for big market poultry plants and with the present plan of disorganizing poultry keeping on a large scale, it will take fifteen or twenty years to again place the business on its feet. In the meantime, people are going to want poultry and eggs and eventually they will have to pay the price which these products should everywhere command. Moreover, ten men with ten hens on ten city lots will not be able to produce eggs at less cost than a competent grower with one, two, or three thousand hens on a farm, nor will he be able to utilize an equal amount of waste food per bird. While in the poultry business on a farm, I was able to utilize quantities of waste food, stuff that could not well be fed except to poultry, but with my little flock on a city lot, all the waste we have for poultry are crushed egg shells, apple and potato skins (not peelings) and occasionally a little gristle from meat from which all the nourishment has been extracted. Human food is always much more expensive to feed to poultry than the inferior quality grains and feeds which the poultry keeper buys for his flock. With the present day condition of great scarcity of human foods, no one should advocate feeding table waste to poultry, for table waste is nothing more nor less than human food which has been allowed to waste. In some localities now they are keeping an eye on waste of human food. Wherever it is found that stale bread,

left over cereals, broken crackers, wormy meals, scraps of meat, etc., are thrown to dogs or chickens or put in swill receptacles, the householder is politely informed that waste of human food is no longer permissible in a world threatened with wide-spread food shortage.

The back lotter should be encouraged to keep poultry, but let us not make the serious mistake of asking him to keep poultry on table scraps. Let us tell him the truth of the matter, that poultry requires grain, but not the milling qualities of grain required for human food. In a country the size of ours there is always a vast quantity of grain and grain by-products which is good for feeding poultry and other animals but not for human beings, but which when converted into poultry, eggs, beef, milk, sheep and swine makes human food of the finest quality and highest nutriment.

I believe that at this time it a great mistake to allow the big market poultry plants to discontinue. Every effort should now be put forward to retain those which are still in operation. Further disorganization of market poultry and egg production means serious loss to our people generally. We cannot hope for cheap grains during present conditions, because grain cannot be produced cheaply while farmers are subject to the same heavy war time expenses that all other business men are. It is a waste of time to figure on feeding poultry cheaply, because it cannot be done, whether we have a back yard flock of ten, or a farm flock of ten thousand, but when the producer knows that it is costing him from sixty cents to one dollar a dozen to produce eggs he knows he cannot afford to sell them below, or at this figure. He also knows he is producing a first-class food which is needed, and therefore his business should receive every encouragement. We all know that the business cannot be conducted profitably at the present time, but let us work to the end that *it must be made profitable because it is a legitimate necessary industry* and let us not place too much confidence in the statement that ten hens in every back yard will supply our people with poultry and eggs. We need both poultry meat and eggs produced on the large plant, and the only way to get these products in sufficient quantity is to work for better prices on poultry and eggs. This must come eventually. The only question is, shall we in the meantime allow the efficient, economical and large scale production of poultry and eggs to become completely disorganized, and consequent greatly higher prices to consumers to pay for this calamity, or shall we stand solidly behind the men who are hanging on against fearful odds, and put our shoulders to the wheel to make poultry keeping what it ought to be, a profitable undertaking whether in ten hen or ten thousand hen flocks.

Were I to Start in the Poultry Business

By A Breeder

WERE I to start in the poultry business—I mean, were I to start over again—I can see how I could have avoided some disasters, and how I could have progressed faster than I did. But, after all, every beginner must matriculate from the School of Experience; and if he seeks the cause of failure, if he diligently hunts for the reason of the trouble and finds it, and then masters the difficulty, he may be rightly called an apt scholar; we may look for his success, with a very small tuition fee having been paid to Dame Experience.

Not so with the careless student, the student who does not apply himself to his task. It is he that has the heavy loss; it is he who pays so much bounty to experience and who finally becomes discouraged and quits the business.

The reader may have recently attended a poultry show. He sees visions of black, brown, red, and white hens in his dreams; he has made up his mind that he wants to start in the poultry business because he feels that he will derive a great deal of pleasure from a profitable investment.

He will choose his variety purely as a matter of fancy in many cases; he likes a certain color best, he thinks them very handsome fowls. Certainly he could not choose his breed from any other standpoint, for he knows none. But were

he to purchase a horse or a cow from a large stableful, he could hardly make his choice from the standpoint of color, unless all other things to be considered were equal. He would make his choice from the practical side, from the standpoint of downright usefulness. But this lesson of breeds and their special points, their varying types and strong and weak points, he has yet to learn. Some day, if he succeeds, he will be able to give some good reason why he chooses this or that variety.

I would never again start as I did, with scrubs. There is but one way in my mind to succeed, to make the greatest success, and that is with thorobred fowls. You ask, Why? There are several reasons. If you have a thorobred flock, they are uniform in size and color. Should you sell them, they are an even lot. If they hang in the market, their uniformity is at once conspicuous—an even size, shape, plumpness, and color of skin; it is bound to commend itself to the purchaser.

Again, the thorobred flock can all be fed alike—not so with a mixed flock. The grade Leghorn and the grade Orpington want different feed, a different quantity, and fed differently to them. One is much quicker than the other, nervous and active—to use the horseman's term, they don't hitch well

together. You cannot get the best out of both at the same time, and you are losing on one or the other—more correctly, on both of them. To succeed in these days of hustle, you must get the most out of everything.

Again, a flock of thorobred hens lays eggs of a uniform shape and color, which is an especially strong point with the fancy trade. But suppose we lay aside all these reasons, and ask why was this breed originated? What was the purpose in view? If Holstein, Durham and Jersey cattle each have some particular line in which they are especially strong, why not in the different breeds of fowls?

Certainly there was a reason. Breed "A" is a meat producing variety, it has great size and good flesh. Can you expect a scrub to equal it? Breed "B" is an egg producing, non-setting variety. If eggs are your chief aim, it will excel the common hen.

Wouldn't it be wiser to select a breed especially strong in the production of eggs, for instance, that has back of it a century, perhaps, of breeding, one that has a fixed shape, color and size, than to buy some large and some small speckled and polka dot pullets and mate them with a calico "rooster" and perchance raise some lavender chickens? A crazy quilt? No, a crazy poultryman! Common sense and good judgment tell you that if you have the opportunity to take advantage of the other man's brains and hard work by keeping the breed of fowls that he has perfected, you ought to do it.

You may not desire to enter the fancy business, and say that common chickens are good enough for you. They are not. When your hen hatches scrub eggs, you do not know what kind of fowls they mature into, and you are sure that they will not be alike. What you do know if you have thorobred fowls is this, that the chickens will be uniform in size and color. There is no uncertainty, and if you are familiar with the breed you will know also to a day how long it will take to make a broiler, and at what age the pullets will begin to lay. You are banking upon no uncertainty as you do with the common fowl.

Don't misunderstand me as saying that there are no breeders of thorobred fowls that do not make mistakes in breeding for feathers instead of utility, and that will advertise their breed as being the best layers, etc. You must use your own

judgment in selecting a breed and then purchase from a breeder who has the future of the fowl at heart, and don't breed toys for you to play with, but tools with which you can chisel out a fortune.

If you in your dreams have had a great future painted on the canvass of tomorrow, remember that nothing worth while grew in a minute, but started from a small and humble beginning. One of the great blessings of the poultry business is that it offers the opportunity of success to all alike, the rich or the poor.

I, personally, know of one of the leading judges of the country, who was an orphan, began without a dollar and now has one of the finest equipped poultry plants in the United States, all earned and paid for by the hen.

The boy with limited means can succeed if he is a careful, painstaking student. Two dollars and a half will build him a coop and park large enough for ten hens. A piano box of thirty square feet, with a window in what was the bottom, and a roost and nest, you have a little hen house that is plenty good enough to begin with. Make it tight and warm and dry, and you will be surprised what a convenient little coop you have.

I believe that the person with limited means who desires to start right will find it slightly more economical to purchase eggs for setting, but I wish to emphasize the fact that the greatest care must be taken of the hen that is intrusted with them or you may lose all. I am aware that there are many who think it better to purchase baby chicks, and they may be correct, but I prefer to put the extra money into the best quality of eggs and bank upon my ability to properly and successfully bring off a good hatch.

The greatest care should be taken to prevent lice. Dust the hen thoroly, at least twice while setting, and watch the chickens very carefully. Be quick to note any one that seems to be dull; train your eye so that at a glance you will detect the trouble; school yourself so that you become apt. Just as it requires practice to add a column of figures quickly and correctly, so does it require skill to tend any chickens and do it quickly and thoroly. It requires years of study to become a lawyer or doctor—can you become a poultryman in a day? Of course not. If you suffer loss, don't quit, but profit by the lesson and let it never occur again.

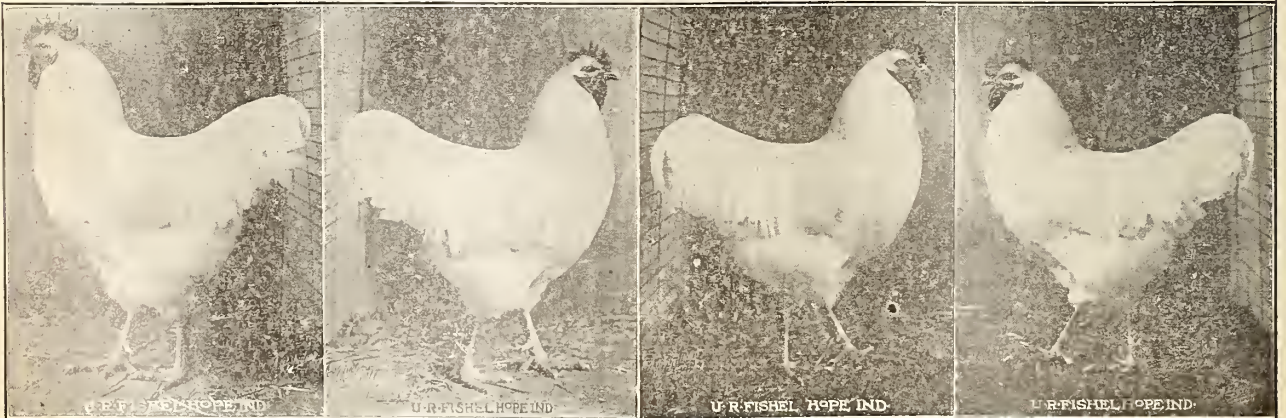
What a Woman Can Do If She Will

By Mrs. Chauncy Simmons, Route 3, Erie, Kansas

THERE are many women who don't know the value of a dollar. Never earned a penny in their lives, but spend dollars. A large percent of these women have the ambition to help their husbands, if they only knew what to do. I have found in my own experience that I can help my husband and children thru poultry. I was raised in town, taught school one year, and, at the age of 19 years, married a farmer's son, and moved to a farm at once. I became interested in poultry, and raised about 300 chickens each year, but

sold to local merchants. Thought I was helping wonderfully, and I did.

But in 1910 I became interested in thorobreds. I bought 100 R. I. Red eggs, and since that time have been building up my flock. For the past 4 years I have had a nice business of shipping stock and eggs. And as I had become so interested in better Reds each year, I decided to join the Kansas State Poultry Federation, and attend the State Poultry Show. So, in December, 1915, I started for Topeka, Kansas, to spend



FOUR FIRST PRIZE MALES, CHICAGO, 1917, OWNED BY U. R. FISHEL, BOX A, HOPE, INDIANA

four days in the show room. I attended all the lectures, and was benefited very much by them.

But the one that I derived the most good from was a demonstration and lecture on caponizing. I took quite an interest, but thought I can never do that, for I have poor eyes. I am obliged to wear glasses, and can't see very well with them. I rather doubted the lecturer's word, when he said, "They grow very large, their comb never grows, they never crow, and the meat is the finest flavor of any other meat." But, dear sister and brother, this is all true.

In May, 1916, I sent for a set of instruments. I was very nervous, expected to kill every one, and put it off, from day to day. Finally my husband told my mother, "If we ever have any capons, I'll have to make them; I can see that now." Mother told me, so I braved up and decided to surprise him. On July 13, 1916, I shut up four little fellows (just large enough to tell they were roosters) and on the morning of July 15, after my husband had gone to the field, I sent the children down in the orchard to hunt a supposed hen's nest, then began the much dreaded job. O, how I trembled and shook. My head ached and I felt as weak as a kitten. When I got thru with the first one, and he was ready to eat and drink, I began to brace up. I called the children to come and see. They were so happy, and screamed with joy, "O, mamma, we knew you could." I was successful in the next two, but killed the fourth one. July 21, I worked on 11 more, killing one. July 28, 20 more, killing none. August 1, 11 more, killing two. August 2, 18 more, killing two. August 4, 19 more, killing two. August 5, 4 more, killing none. August 9, 12 more, killing one. August 13, 13 more, killing none. August 16, 12 more, killing none. August 18, 17 more, killing none. August 21, 15 more, killing none. September 1, 8 more, killing none. September 8, 5 more, killing none. September 11, 26 more, killing none. September 28, 4 more, killing none. November 1, 10 more, killing none. Out of these 125 were for myself. The remainder for mother, sister and friends. I lost very few after operation, and that was by accidents. I kept them confined in lots a few days, so I could look after wounds, to keep wind puffs down. After a few days they were marked (split outside web of right foot) and turned loose on the free range. They are great rustlers, going as far as 80 rods from the house.

On December 10, 1916, I shut up 4 and fed extra. December 17, they weighed 7½, 8, 8½ and 9 pounds each. I sent these 4 to the Kansas State Poultry Federation Show, and won third on display of capons.

On January 10, 1917, I shut up 25 more and fed chop wet with milk or warm water. Sometimes I put in some bran. I fed this in troughs two or three times a day, keeping the troughs clean of filth or trash. I fed whole corn at night, as they tire of chop altogether. Kept fresh water and oyster shell before them all the time.

On January 23, we dressed 20 of the best ones, dressing according to directions. We weighed them on small kitchen scales. They weighed 138 pounds and 14 ounces same evening they were dressed. We shipped these to Brockman Commission Co., St. Louis, Mo. On January 31, we received our returns, which were as follows:

20 capons, 137 lbs., at 27 cents.....	\$36.99
Less express and commission.....	4.40
Net proceeds	\$32.59

We immediately shut up 25 more, and fed as before.

February 7, we dressed 25 more. Our weights were: 19 capons, 128 pounds 8 ounces; 6 slips, 40 pounds 12 ounces. Shipped these to P. M. Kieley, St. Louis, Mo. February 16, returns as follows:

18 capons, 122 lbs., at 28 cents.....	\$34.16
6 capons (rough), 38 lbs., at 25 cents.....	9.50
1 slip, 6½ lbs., at 20 cents.....	1.30
Less commission and express.....	5.51

Net proceeds

We kept 25 to 30 capons in the fattening rooms all the time now.

February 14, we dressed 20 more. Our weights were: 14

capons, 84 pounds 7 ounces; 6 slips, 36 pounds. February 19, returns as follows: From Brockman Commission Co., St. Louis.

11 capons, 67 lbs., at 26 cents.....	\$17.42
8 slips, 47 lbs., at 24 cents.....	11.28
1 stag, 6 lbs., at 15 cents.....	.90
Less commission and express.....	3.60

Net proceeds

February 27, we dressed 27 more. Our weights were as follows: 19 capons, 106 pounds 2 ounces; 7 slips, 40 pounds



Second Prize Buff Orpington Hen, Chicago Coliseum, 1917. Owned by Walhalla Poultry Farm, R. 1, Oscoda, Mich.

2 ounces; 1 stag, 5 lbs 13 ounces. March 5, returns as follows: From Brockman Commission Co., St. Louis.

25 capons, 142 lbs., at 24½ cents.....	\$34.79
2 slips, 10 lbs., at 21 cents.....	2.10
Less express and commission.....	4.74

Net proceeds

The remainder were kept for home use, some were sold here for roasts, some dressed and sent to relatives for presents. I have kept some for mother, and will see how they do for that.

Husband and I had never seen a capon dressed or undressed, but we dressed 92 in January and February, and realized above expense of express and commission \$130.19. They would have brought more per pound, but were young and didn't weigh heavy enough. This year I expect to begin earlier.

The ones I made capons for last year, said: "O, their meat! The finest I ever saw. How I do wish I had more made last year. I'll sure have some more made this year."

When I first began to caponize, I dreaded it so, but now I would rather caponize than eat, when I am hungry. I expect to teach the children this year.

I would not be without capons, if I made them for table use only. They are fine eating, much better than turkey or hen.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

SUBSCRIPTION PRICES

United States, Cuba, Mexico and United States Possessions	1 Year 12 issues	3 Years 36 issues
(except Chicago).....	\$0.60	\$1.00
Canada .....	.85	1.57
Foreign	1.10	2.50
Chicago .....	.75	1.50

Chicago, Canadian and Foreign subscriptions require additional postage and therefore the slight difference in prices.

TRIAL SUBSCRIPTIONS — In order to acquaint prospective subscribers with American Poultry Journal, we will mail one copy a month for six consecutive months to any point in the United States, its possessions or to Cuba or Mexico for 25c. The trial subscription offer (6 months for 25c) is for new subscribers only and not subject to renewal for a period of less than one or three years.

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TRADE MARK REGISTERED,
No. 74,059.

Issued the first of each month.

Published by

**American Poultry Journal
Publishing Co.**

JAS. W. BELL, President,
523 Plymouth Court, Chicago, Ill.

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Advertising Representative,
E. G. ALDRICH.

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55,000 American Poultry Journals for
July, 1918.

State of Illinois, County of Cook, ss.:

Chas. S. Peterson, secretary of the Regan Printing House, Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 55,000 copies of the July, 1918, issue.

CHAS. S. PETERSON.

Subscribed and sworn to before me this
20th day of June, 1918.

(SEAL)

ALICE A. SHEHAN

Notary Public.

"What Everybody Says"



We were talking the other day with a veteran farmer and commercial poultryman. He is now well past "70 years young," as he used to put it, and he has been very successful during his lifetime in the business, altho he says he has always earned the greater part of his income thru trading and real estate deals. We tried to get him to give us his opinion of the immediate future of the poultry business, but he would not definitely commit himself and was inclined to generalize. Following, in part, is the result of the interview, in the old man's words, as nearly as we can recall them:

"What everybody says, and what everybody 'pears to think, is most likely *not so*. Leastwise that's been my experience.

"Now, I've got a neighbor that I've known, man and boy, for nigh onto fifty years. He always had a reputation for bein' an onery cuss. 'Worst boy in the whole village' everybody said. The brothers and sisters down at the meetin' house used to pray for him to be 'snatched from the burnin'' pretty regular. He was always accused of being mean with animals, leastwise everybody thought and said he was. But most folks had to admit that even as a boy he was a hard worker and worth as much in the field as any two men.

"He was too tough to get along well at school and was bound out when he was about twelve years old. He didn't get along well with the teachers and didn't have much chance at book learnin'. Used to come to my place to work often and I never had any fault to find with him, but everybody said he was bad all thru. He got into cattle tradin' after a spell and did pretty well at it, but his reputation stuck. He got arrested a good many times for 'cruelty to animals,' but most times the judge let him off for 'lack of evidence.' One or two times he was fined, but the evidence was mostly circumstantial and even the judge said he fined him pretty much 'on account of his reputation.'

"Now I never saw him do anything bad except go on a 'toot' a few times when he was down on his luck and fight and cuss hard when he was mad—and mostly he didn't seem to be mad on his own account but just a hoppin' because

somebody else had been treated pretty mean. But everybody said he was 'a bad one and terrible bad with animals'—and he *did* used to have some pretty hard looking old plugs for hosses—so I got to feelin' that perhaps folks was right, until some things happened that set me to thinkin'.

"The Swede's baby, just a toddler, got hold of a bottle of gasoline and drank some and there was nobody home but a eleven-year-old sister. Neighbor was going by with a drove of cattle and heard the children scream. He piled right in, left his drove in the barnyard and went to work on the baby, then hitched his horse to the Swede's buggy and took the child to the nearest doctor and brought them both back with him. The doctor told me about it afterward and said Neighbor saved the baby's life, but Neighbor never had anything to say about it. It was like it was all in a day's work for him and when I tried to bring it up one time, he just acted huffy and wouldn't talk.

"Then I got sick when my best heifer came in and Neighbor came down and took charge of the place. Got mad and cussed a lot when I tried to pay him for it. I had rheumatiz and could putter about the place, but wan't much good for work. That heifer was valuable and, of course, she had to go get herself all busted up in the barb-wire fence. Neighbor took care of her as tender as a woman and I never saw him even lose his patience once, tho she kicked and thrashed somethin' wicked when he'd milk her and dress the cuts. Just talked to her 'sif she was a baby: 'So bossy, so bossy, I know it hurts, but I got to do it and I can't help it.' And when she'd step hard on his toes or kick him hard, he'd only say 'ouch, bossy, that hurts like blazes.'

"One day I says to him, 'Why don't you strap her up? No use gettin' all banged up.' Says he: 'I been handling cows for over forty years and I never strapped, or struck, or yelled at one yet, and I won't let nobody else do it neither. Guess you'd raise — if you got hurt like that.' I believe, he told the truth, too, for it come out earnest like and was the longest speech I ever heard him make about himself.

"So you see, Mister, what everybody says and everybody thinks is pretty likely to be wrong. Lots of folks know a lot of things that ain't so, and the more they tell 'em about, the less truth sticks to the story. Majorities is most often in the wrong and minorities right, leastwise that's my experience. And when a minority gets to be a majority, it gets wrong, too, and there's a new right-minded minority born. Just think it over, Mister.

"Now you was askin' about the poultry business, and all I

got to say is that it takes a lot of pluck to stick it out and may cost a lot of money. I'm an old man, but I'm goin' to stick in a small way, so's I can come back good anytime I think business is goin' to be good. That don't mean going in heavy when things are against you, but it is a long ways from quittin'. But, you just remember what I said about Neighbor and apply it to the poultry or any other business. Most likely you'll find that what everybody says and everybody thinks *just ain't so!*"

That covers our interview pretty well, and we present it here because we believe it is well worth pondering over. A real optimist, you know, can make lemonade out of the lemons that are handed him. And a man isn't a pessimist because he can see trouble coming or obstacles in the path; probably he is more truly an optimist—because he sees the difficulties and tries to overcome them—than the man who blunders blindly on and bumps himself hard on obstacles which he will not see and says do not exist.

There's a Difference

There is a vast difference between keeping poultry for amusement and pastime, or as a side-line chiefly for home supply, and egg farming or market poultry growing for a living. Some folks do not seem able to see the difference, but we believe, that among other things which the reconstruction period is due to bring, that vision will be granted in this particular also.

Poultry keeping will never be upon a solid and permanent foundation until work with poultry, as well as other work in food production, becomes a reasonably sure means of earning a livelihood.

Eggs and poultry are necessary foods, among the best foodstuffs we have, and they should command a price at all times which will insure a fair and just profit for the producer. It does not help matters to say that one "should not expect to make a living from hens," that they "seldom prove profitable on a large scale and can only be counted as a farm side-line or as a fancy." The production of any staple food ought to be a paying business, and just so long as it is not there is something decidedly and radically wrong—a wrong which must be remedied if we are to progress. It will take some folks a long time to realize this—for example, those who get an income cutting coupons on securities handed down instead of having to get out in the world and dig hard for a living. People, who were born with a golden spoon in their mouth and have been carried about on a cushion, are going to get a few eye-openers when everybody has to do real work or fight.

As in everything else, all branches of the poultry business and allied interests are each and every one dependent upon the others. Unless all "nick" and fit in so as to work harmoniously together, everybody suffers. It is well-enough gallery play to shout about "the fancy for fanciers exclusively" and to try to keep alive the old contention between differing factions in the poultry world, but it does not work well and it hurts everybody. Each and every one of us are dependent upon each other and we ought to be working together as a harmonious whole instead of bickering over pet theories or our special idea of exclusiveness.

The fancier-breeder is dependent upon the beginners and the utility poultrymen for a large part of his business. He needs the egg farmer, the market poultrymen, the poultry shows, the poultry publica-

tions, etc., and each and every one of them need the beginners. Then why not try to work together in harmony for the common good of all instead of eternally striving to stir up strife?

The person who goes about all the time with a chip on each shoulder is certain to get one or both chips knocked off sooner or later. Earnest, honest, dependable men are now working hard to bring about successful and efficient organization of the whole poultry industry. It is natural that some self-seekers should try to grab the control for personal gain. It ought not to be difficult to differentiate between the man who is saying three words for himself and one word for organization and the men who are putting their whole energy into effort to organize the industry for the benefit and greatest good of all, with no thought of personal reward. Of course, some of the critics, hired or merely prejudiced, will knock the dependable workers. That always happens, but we believe that all poultry keepers are competent to distinguish between self-seeking, greedy individuals and those who are unselfishly working for the common good. Even some of the "old guard" may have the scales drop from their eyes in time.

Help organization, don't hinder it.

Don't Waste Feed

Don't waste feed. Even tho the crop forecasts predict bumper crops this season, remember that "there is many a slip 'twixt cup and lip," and the growing season is only fairly started. It is a long time yet until harvest. All of the grain and feed we can produce will be needed.

In some sections of the country there is already serious shortage of feeding grains and mill feeds. It is not unlikely that, taking the country as a whole, we shall be obliged to use our supply with exceeding care in order to have enough to go around until the new crop is available.

Do not waste grain and feed. Make every ounce count in helping to produce poultry, eggs, milk, beef or pork.

It is wasteful to attempt growing more chicks than you can care for properly and secure the best growth. It is wasteful to carry more male birds than are needed beyond marketable size as small roasters. It is wasteful to feed runts and non-productive fowl. It is wasteful to overfeed and equally so to underfeed. Keep the flocks well fed, but not overfed.

Where one has a small flock it is easy to fix the feed allowance so that there is no waste. On the farm, with cows, pigs and other animals besides the poultry, there is no need of any feedstuff being wasted. A little system will adjust the feeding so that there is efficient conservation.

Rats are the worst grain and feed wasters. Keep up the fight against rodents. It easily costs \$3 per year to board a rat in these times, to say nothing of what he damages and destroys. Make war on rats with dog and cat, as well as with good traps, rat bane, and by shooting. Digging out the rats, with a good Airedale dog to assist, is the best way to rid the earth-floor poultry houses of this pest. Traps, and barrels partly filled with water and fitted with a tilt-board on top, work well; but any trapping device must be changed from time to time, as the rats become wary of it.

Don't waste grain, it will be needed.

Boost Standardbred Poultry.

THERE is no lack of interest in poultry keeping. The campaign of the poultry husbandmen, of the U. S. Department of Agriculture, for increased production of poultry, has brought many beginners into the field of poultry work.

Probably the primary interest of these recruits to poultry keeping is the production of food, meat and eggs for the home table. Many of them have bought market eggs for hatching purposes, or have secured a flock of adult fowls at the live-weight market price or at the lowest price for laying hens. Certainly many of the flocks we have seen show little preference for breed or even one variety. There has been a very good demand for low-priced hens for a family flock of layers and for baby chicks at "utility stock" prices. Of course we would like to see them all good quality Standardbred stock, believing that such stock would give far better results, but

TO OUR READERS.

Our subscribers are our friends and we use every effort to protect them in every way. We believe that every advertisement in this issue is signed by trustworthy people, and to prove our faith we will make good to our subscribers any loss sustained by virtue of their having purchased fowls or goods from one of our display advertisers.

All we ask is, that in ordering the fowls or goods, you mention to the advertiser that you saw the ad in American Poultry Journal; also that the purchase be made during the month or months in which the ad is inserted, and in case of loss notify us of the fraudulent misrepresentation of the advertiser, giving us full particulars as soon as it occurs. In all cases in writing to advertisers say, "I saw your ad in American Poultry Journal."

the fact of chief importance is that a big army of beginners is becoming interested in a family flock of poultry—back yards that never before harbored chickens are now giving space to a

promising flock of growing chicks. This is a hopeful indication of better times coming in the poultry business.

Every beginner starting this season with a war-time flock, even tho he grows mongrels or mixed stock, is a good prospect. He is developing an interest in poultry and eventually will want to have better poultry. It is up to our breeders to develop these prospects, to demonstrate to these beginners the superior quality and value of Standardbreds. Boost Standardbred poultry. Advertise and circulate information concerning Standardbreds. Make the poultry shows more attractive and offer inducements for novices to exhibit their birds in competitive classes. If every friend of Standardbred fowls will "do his bit" now to stimulate and hold the interest of the beginners, next spring season can be made one of the most successful and satisfactory for the breeders of Standardbred poultry that we have experienced in a long time. Every beginner with a back-yard flock of mixed fowls or mongrels is a prospective fancier. Approached in the right way, he can be easily brought into the ranks of the producers of Standardbreds. Get him interested. Help him to get started right. See that he gets a square deal and good breeding stock to start with. Help him as you would like to be helped if in his place.

There never was a better opportunity to develop and greatly increase public interest in well-bred, well-kept flocks. Just forget that "the fancy poultry business has been all shot to pieces." That is a matter of ancient history now. A very considerable number of citizens in every locality all over this country have become interested in "keeping hens to help out the family food supply." Naturally they want the best and the most for their money. It was to be expected that the majority of them would make a beginning with low-priced eggs, chicks or stock. We cannot help that, but it will be the fault of our fancier-breeders if these beginners stop with cheap flocks of nondescripts. We know that the best is not often the cheapest at first cost, that it pays to start with the best stock one can afford. That breeding to a standard can and will develop both uniformity and productivity. That a well-bred flock of Standardbreds should produce more meat and more eggs than a flock of nondescripts. We know these things, but does the beginner know? The chances are that he does not know, that he thinks any kind of hen will lay and that "mixed flocks lay best." To him "eggs is eggs."

It is up to the fancier-breeder to get in touch with such beginners, to interest them in Standardbreds and to demonstrate to them in a practical and convincing manner that well-bred stock gives best returns for feed and labor, as well as proving more pleasing to the eyes. He can interest the beginner thru personal talks, thru correspondence, thru advertising and articles written for the press, and he can hold the beginner's interest by helping him to secure good stock at a fair price, by getting the "Golden Rule" into his business dealings, by making beginners welcome at the shows, and by putting a strong element of fraternalism and good fellowship into his relations with beginners. In the old days, before commercialism became as rampant as it has been during recent years, the old-time fancier-breeders used to extend a cordial wel-

Common Sense—

Common Sense Scratch Feed and Egg Mash carry a triple-assurance guarantee—right in the sack that the feed comes in:

1. The guarantee is written—making it official and binding.
2. Specifically guarantees *better results*—which means that this ration is guaranteed to be a better, less expensive and more productive feed than any you have used.
3. It protects you. It says without any qualifying phrases that if you do not get better results with Common Sense Feeds we buy back the feed you have left and pay all transportation charges on the original shipment to you and all charges on the return of the feed to us.

Could anything be more fair? Could anything be more assuring and iron-clad than that?

The same guarantee covers our famous Common Sense Baby Chick Feed. Write for samples and prices—today.

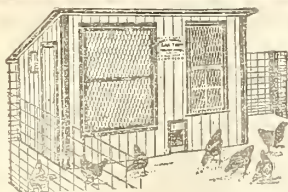
THE FAMABELLA COMPANY, INC.

Dept. 4, 1107 Grand River Avenue, DETROIT, MICHIGAN



Guaranteed!

Potter "Redybilt" Poultry Houses



Don't Build - It's Cheaper to Buy

An old reliable Potter ready-made henhouse can be purchased for less than it would cost you to build one. They have been used and recommended for over 16 years by thousands of poultry keepers, all over America. A clean sanitary house, nests and roosts mean healthy hens and lots of eggs. Do your part and the hens will do their part.

Roosts,
Nests, etc.,
Ready to Use

A \$39.50 Potter House Portable, open front, fresh air, scratch shed house, equipped with 6-ft. 3-Perch Potter Henhouse Outfit for 30 hens.

For Less Than Cost of Making

Sanitary, portable, inexpensive. You start right when you install Potter outfits—roosts, nests, drop-boards coops, hoppers, etc. Get rid of makeshift, unsanitary disease-breeding fixtures and make a bigger success of your flock.

Get the Potter Book—it shows over 100 pictures of portable houses, coops, henhouse outfits, etc. Mailed free for two red stamps to cover postage.

POTTER & Co. 56 FOREST AVENUE DOWNERS GROVE, ILL.



A \$6.60 Potter Outfit

6-ft. 3-perch, 10-nest Henhouse Outfit for 36 hens. Same style made in 12 sizes.

"HILLVIEW" White Leghorns

America's Greatest Layers and Winners. Write for big free 24-page catalog.

HILLVIEW FARM

Box 27

LINCOLN, MISSOURI

come to all beginners, give much time to helping them toward success and to developing the budding interest in breeding quality poultry. We need more of this same spirit of co-operation and fraternalism today, and less of the apparent loss of interest once a prospective buyer has become a customer and parted with his money.

This is not a time to lie down, curl up, and quit the business. There should be better times and better business close ahead of us in the coming season. It will be our own fault if we fail to get our share of it. The men who get the business will be those fancier-breeders who can and will deliver the goods; the men who keep their advertising everlastingly before the public, who give every customer a square deal, who will inconvenience themselves to satisfy the customer, even tho he seem unreasonable, and who treat every prospect and every customer as if they hope to make a friend of him and hold his trade for all time.

This is the time to boost Standardbred poultry. Our good Uncle Sam is pushing a vigorous campaign for more and better Standardbred poultry. This is your opportunity to benefit from the greatest publicity campaign Standardbred poultry has ever known. Business will be what you make it. Get into the game and play your hand for all it is worth.

Don't Throw It Away.

AN OLD friend of ours has a favorite saying: "Don't throw away money, it's valuable." This does not mean that he is penurious, for he is a "good spender," but that he does not like to see money wasted.

We do not like to see money wasted and therefore we will paraphrase our friend's saying in this wise: Don't throw away advertising, it's valuable.

Advertising is cumulative in its effects, it gathers strength and pulling power thru constant repetition. To advertise vigorously and then quit is a waste of money. Spasmodic bursts of advertising are wasteful. It is like trying to start your furrow with a jerk when a long steady pull is needed. Advertising needs to be continuous; the reader should find

your "bid for business" in every issue of the result-getting publication. If you drop out to start again later on, you waste a good deal of what has gone before. As John Wanamaker says: "Advertising doesn't jerk—it pulls. It begins very gently at first, but the pull is steady. It is like a team of horses pulling a heavy load; but half the power is required to keep it going that is necessary to start it."

This is a big country, we have all sorts and conditions of climate and seasons. The trade in poultry supplies, hatching eggs, baby chicks, breeding stock, etc., should be a year around business; *will be* if you go after the business right.

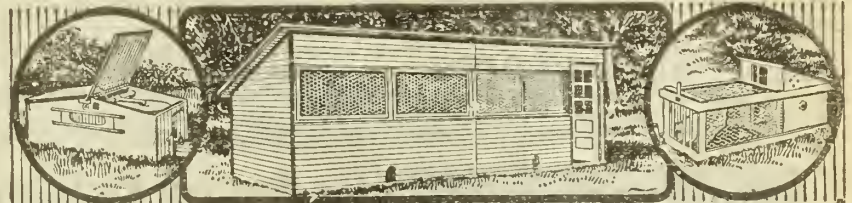
"Toot your horn, if you don't sell a fish!" is another way of saying that "It pays to advertise," but it pays best to advertise all the year thru and to keep everlastingly at it.

With Uncle Sam's agents boosting

Standardbred poultry thruout the entire country, with the incessant urge for everybody to keep a back-flock, better business must soon come to poultrymen. Advertise and get your share of this business. Do not throw away the accumulated pulling power of past advertising by slowing down or quitting now, add power and pull to your advertising by keeping up a good strong publicity campaign. "There's just as good fish in the sea as ever were caught," there are more poultry business prospects in sight now than there have been for some time, get good fresh bait on your hook and go fishing for customers. If you go about it right you will get and hold your share.

Smith's White Leghorns

More first prizes at Chicago and St. Louis shows than any other strain! Birds that will win for you or birds that will improve utility qualities. Catalog sent free upon request. Eugene C. Smith, 317 Galena Blvd., Aurora, Illinois



Brooder for 50 to 100 chicks

No. 3 Poultry House for 60 hens-2 units

Setting Coop

NOW that the government has urged the keeping of poultry, the thing to do is get started right and quick. So send for a Hodgson catalog. Then pick out the houses, coops and brooders you need and order. They will come to you in neatly painted, fitted sections

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HODGSON PORTABLE HOUSES

Homestead Campines

The Vigorous Strain. They develop rapidly and lay early

Stock and Eggs at Reduced Prices

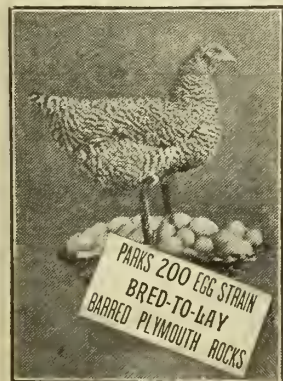
Remember, Homestead dominates in the world of Campines. Get the best. Let us know your wants. HOMEMEAD CAMPINE FARM Box A WAYLAND, MASSACHUSETTS

Myers' Barred Plymouth Rocks

Lady Beautiful Strain Consistent winners for years at the big shows.

Single Birds, Trios or Breeding Pens. Hatching Eggs. Write for catalog and mating list. C. N. MYERS Box A HANOVER, PA.

Annual July Surplus Stock Sale



Parks' Bred-to-Lay Barred Plymouth Rocks

A Grand Selection of
Pullets, Cockerels, Hens and Cocks

They are all listed and quoted at very attractive prices in our free surplus stock circular.

BETTER ACT QUICKLY. We never have had enough for our early demand. Take advantage of the normal conditions of express service. Just as soon as grain and winter coal starts moving railroads will again be jammed.

SURE, WE'RE GOING TO WIN THIS WAR. Uncle Sammy has too many resources up his sleeve that KAISER BILL underestimated.

YES SIR-EE. The hen, too, is going to play her patriotic part, and especially the LAYING HENS. What other country can boast of a strain like the Parks' Strain with careful selection, trap nesting and pedigreeing for eggs since 1889. **WOULD YOU WONDER** they so easily out-layed the 2500 birds in Missouri laying contest, from 37 states and 8 foreign countries, and made the remarkable winter month record of 194 eggs in Jan. (3 birds). **NO,** we don't make the broadest laying claims, but just remember in all these 28 years they have laid their way into universal popularity while hundreds with greater phenomenal laying claims have come and gone.

Catalog giving history of strain, and valuable information, a dime. Circular free.

J. W. PARKS

Box J

ALTOONA, PA.

Dr. Woods' Notes and Comment

"It does us no good, but real harm, to believe only that which we would like to believe, to allow the wish to be the father of our thoughts. It is better to be guided by hard facts than false hopes. The best hope is the recognition of the truth and firm determination to overcome every difficulty."

—Boston Globe.

Henry C. Wallace says: "If we are to fight effectively we must know the truth. The quicker we get thru with the gush and boasting, the better it will be for us."

Boost for greater consumption of eggs and poultry meat. Too many people are knocking eggs and urging the use of egg substitutes. There are no substitutes for new-laid eggs from well-fed hens. Summer weather is slowing up egg production somewhat and egg prices

S. C. White Leghorns

Breeding, Laying and Exhibition Stock for sale. Meadow Lark Farm, Box 3, Route 3, Elgin, Illinois

should soon be more satisfactory. Eggs still continue to be one of our best and cheapest foods and the price has never yet climbed to a figure proportionate with feed costs and the prices of beef and pork. Eat eggs and urge others to eat more eggs. Greater consumption will encourage increased production.

Well-shaded, well-grassed range combined with liberal feeding will help summer egg production. Hens which have reared early broods of chicks should be in prime condition and can be kept shelling out eggs all summer.

Shade from the hot sun, shelter from sudden showers, cool drinking water in clean vessels, freedom from lice and mites, good green range, plenty of wholesome food but no food allowed to stand around and sour or mold, comfortable well-aired sleeping quarters, small flocks and no crowding are essen-

tials to successful chick growing—particularly so at this season.

Where small bare runs must be used, scrape and sweep them clean before heavy rains. Then spade up or plow and sow to oats, rye, or other quick growing stub to sweeten the soil and supply greens.

Poultry droppings will promote quick growth of all truck if used carefully in the garden. When weeding or thinning out the garden, do not forget the poultry. Confined fowls and chicks will relish garden waste and put it to good use.

The welcome June rains came too late to help much with the hay crop, but they worked wonders for the growing crops which the long dry spell threatened to kill before the young plants had a fair start in life. Potatoes are looking fine, corn is in fair shape but not up to last season and did not come up any too well, much of it having to be planted over. Strawberries, which were hard hit by the drought and badly dried out, have taken on a new lease of life since the rain and are coming on rapidly. Bugs and caterpillars are unusually plentiful here, where we usually have far too many of many kinds, and insecticides are difficult to obtain. The growing chicks and the birds are making war on the insect pests but cannot make any appreciable showing against such hordes. The gipsy and brown-tail caterpillars, rose bugs and cut worms are our worst pests, while the army worms and corn worms are exceedingly troublesome. New England seems to be more afflicted with dangerous insect pests than any other section. Where there is so much woodland, and large acreage of second-growth scrub, it is practically impossible for individuals to make headway against the gipsy moth caterpillars, which are killing off the hard wood and are now attacking trees of all sorts.

Judging from correspondence, some of our readers in the Central states do not understand conditions here in the



First Prize Cock at Madison Square Garden, December, 1916

JOHN S. MARTIN

Box 51

Reduced Price Egg Sale

Martin's Regals

After June 1, the price of eggs from either Exhibition Matings, pens 1 to 20, or Dorcas Matings, pens 21 to 32, will be \$3 per 15, \$5.50 per 30, \$8 per 45, \$16 per 100.

Special Matings, (Exhibition or Dorcas) \$5 per 15, \$9 per 30, \$12 per 45, \$24 per 100.

Utility Matings, \$4.50 per 50, \$8 per 100.

This is an excellent chance to become acquainted with "AMERICA'S FINEST WHITE WYANDOTTES" at small cost. All the pullets in my winning pens at Boston last January were hatched after June 1.

FREE—Send for 20-page illustrated catalog and summer sale list, giving description of 500 of my breeders I am offering for sale.

PORT DOVER, CANADA

Sale of Owen Farms White Orpington Breeders

The best are none too good for you if you want to raise prize winners.

I am willing to take Liberty Bonds and War Savings Stamps in payment.

Breed Blue Ribbon Winners

Here is your opportunity to get top notch breeders at reasonable prices. We added Owen Farms flock of White Orpingtons, the best in the country, to our already strong string, and therefore have a number of classy breeders for sale. If you are one of those men who appreciate *quality*, this is your opportunity. Write me your wants today.

Charles Hubbard, formerly of Foxhurst Farm

Lime Rock, Conn., where he established his enviable reputation of a breeder and show man, has entire charge of my flock and will personally select all birds sold. This is an additional guarantee that you will receive extra value.

Breeders For Sale from our Peerless Strain

S. C. Buff Orpingtons :: S. C. Black Minorcas :: S. C. W. Leghorns

ROBADEL POULTRY FARM

C. ROBERTSON
Owner

COS COB, CONN.

East. We have good markets, it is true, and have the advantage of being nearby cities where the top prices can be secured. We have low priced farm land, but it is pretty well robbed of its fertility and requires much manure and fertilizer to secure a crop. Early and late frosts are exceedingly troublesome. War conditions have practically denuded our farms of labor. Right in our little town most of our farmers are working nights in a munitions plant, five nights a week, for \$18 to \$20 per week, and working the farm all day Saturday and Sunday and afternoons the rest of the week. Even at that they are having difficulty to make both ends meet. Most of our supplies must be shipped in from the Middle-west and Southwest. Shipments are irregular and uncertain on account of railroad congestion. Very little grain is grown here and it will be some time before much can be grown; shipments from the West have been slow and uncertain; local shortages of grain and feeds have been frequent. Such conditions are not conducive to increased production. Our already congested population has been greatly increased because of war activities. Prices obtainable for farm produce have not kept pace with the steadily advancing cost of production.

* * *

We still have difficulty in securing mill feeds. Some bran is obtainable at \$2.60 per 100-lb. bag, but middlings are scarce and cannot be obtained in some localities. Altho the price was fixed on these products last Christmas, some dealers, who have a small supply of old middlings, are getting from \$2.80 to \$3.25 per bag for them. No supply is available in our town. Oats and corn are a little easier but still far above normal prices. A good stock feed, such as we used to buy for \$1.50 per bag, now costs us \$3.40.

* * *

This is a good time to thoroly clean and renovate the poultry houses. Burn all old nesting material. Bury old litter in the compost heap. Sweep dust and cobwebs from the walls of the house. Put on whitewash with a sprayer, or, if prejudiced against whitewash, paint walls and sprinkle floor with crude petroleum.

* * *

Keep nests clean. Collect eggs often. Keep eggs in a clean cool place where temperature does not rise above 50 degrees. Use an egg tester or a small electric light to candle all eggs sold to private trade. Candling is easily and quickly done and it pays.

* * *

Look over the jars of preserved eggs and make sure that the water glass solution is at least an inch deep over topmost layer of eggs. If there has been much evaporation, more water glass solution should be added. Mix it one quart of water glass syrup to nine quarts of boiled water and be sure it is cool when poured into the egg containers.

* * *

Charcoal kept before the birds is helpful in preventing summer diarrhoea. Barley meal and wheat middlings added to the mash are also helpful. Give clean, cool, fresh water and keep the fountains clean.

* * *

Ducks and goslings may be easily brooded in ordinary box coops without

WALHALLA

Buff Orpingtons



Buff Minorcas

The Strains of Quality

The Opportunity You Have Long Desired

Why waste time and money with the ordinary kind, when you have an opportunity to buy Standard bred fowls at HALF PRICE. Everyone should work hard to do his bit and hatch late this year to produce all the food possible. To help you grow good ones we will continue our matings thru JULY this year to help you secure them at exceptionally low prices. EGGS from our best matings, as they run \$5.00 per 15, \$8.00 per 30. From our second best matings \$2.50 per 15, \$4.50 per 30, \$5.00 per 50.

PRICES ON 8-WEEK OLD CHICKS	From Exhibition Matings	From Quality Matings
1 Cockerel 4 Pullets.....	\$25.00	\$15.00
1 Cockerel 8 Pullets.....	40.00	25.00
2 Cockerels 16 Pullets.....		45.00

No Utility Chicks to offer, as we are sold out. We have a big lot of early hatched cockerels and pullets which we are offering at reasonable prices. Some of them are right now up to the weight and will be in pink of condition to win for you at your County and State Fair. We also have some real quality in adult stock. Be wise and engage your fall and winter show birds now at summer prices. If you want to win write us, we have them and can help you win prizes you have striven for. Write for our summer sale list.

Walhalla Poultry Farm

Carl E. Schmidt, Owner
Edw. F. Schmidt, Poultry Manager

R. 1, Oscoda, Mich.

The Big Centennial Illinois State Fair Springfield, Ills., August 9th to 26th

Largest Cash Prizes

**Poultry Department
Silver Centennial Medals**

Government Live Poultry Exhib.

School for the purpose of demonstrating the culling of the non-producing hen from the flocks in Illinois, open daily under the direct supervision of the U. S. Department of Agriculture. Enter a few of your birds; come, and learn this valuable lesson, so that you can impart it all over your county. Best of Judges. Best of Fairs.

Write for catalog to either

A. D. SMITH, Quincy, Ill.

or

B. M. DAVISON, Springfield, Ill.

Caponizing

Don't waste time and money on Removers that will only annoy and disappoint you.

UNOBSTRUCTED VISION
PATD 1916



My Unobstructed-Vision Safety-Locking Remover never fails to give entire satisfaction. Compare them—actual use or illustration. If not found superior in every way—design, workmanship, convenience, results—I will refund your money, including postage and cost of remittance. My files are full of letters like this:

"I am very much pleased with your tools. The moment I saw the cut I knew it was just the thing to make the operation easy. Two of my neighbors got different sets and tried to use them. After spending about an hour to a bird, they gave up in disgust. I showed them your tools and you will get their orders later."
"Nuff sed."
"There's a reason." Good for a lifetime. Cheapest in the end. Complete set and instructions \$5.00. Removers alone \$3.50. Illustrated treatise, also expert help on housing and feeding, 6c in stamps. Agents wanted. S. K. BURDIN, Suite 16, 104 Stubbard Ave., Toronto, Ont.

MAPLESIDE BRED-TO-LAY

Barred Plymouth Rocks Are Known the World Over



They have gone to South Africa, Australia, Hawaiian Islands, Alaska, Canada and Mexico. Why not to you?

Circular Free.

290 EGGS IN ONE YEAR

O. F. MITTENDORFF Box F LINCOLN, ILLINOIS

Pritchard's Genetic Anconas



The Eternal Layers
Cockerels, Pullets
and Yearling Hens
Write for prices

Scientifically Bred for Egg Production

These birds will prove a source of pleasure and profit to you, as they combine beauty and productivity to a remarkable degree.

Frank P. Pritchard

NATURALIST BREEDER

R. No. A 2, Fairmount, Ill.

BUFF ROCKS

Won Every First Prize Offered at Kansas City Show. First Prize winners at Madison Square Garden, N. Y. Palace, Chicago, Kansas City, World's Fair. Two pullets at Mountain Grove laid 229 and 201 eggs each. Get my catalog
C. R. BAKER Box A ABILENE, KANSAS

OWEN FARMS

**S. C. R. I. Reds
Buff Orpingtons
White Ply. Rocks
& S. C. W. Leghorns**

are noted for unexcelled utility and show qualities. Each year the average quality of the flocks and the individual quality of the best specimens has been raised. Careful line-breeding has brought results that would have been impossible to produce in any other way.

The unequalled records of my birds at Madison Square Garden, New York; Boston, Chicago, New York Palace, Syracuse, Minneapolis, and other leading shows, are given in full in my printed matter—that is yours for the asking.

Hundreds of utility flocks all over the country are pure Owen Farms blood because their owners found by careful comparison that the perfect health and vitality possessed by Owen Farms line-bred birds made them "Live, grow, lay and pay" better than other strains they had tried.

Half Price Stock Sale

of adults has been unusually popular this year. A few more fine males at \$12.50, \$17.50 and \$25.00 each. Females at \$5.00, \$7.50 and \$10.00 each. Your chance to secure real breeders for next year at low prices.

A Special Snap!

100 Red hens at \$3.00 each.
100 Leghorn hens at \$2.00 each.

Eggs For Hatching

Will hold my matings together until August first this year. Prices are 60% discount from catalog, making them \$2.40, \$4.00, \$6.00 and \$8.00 per sitting—from the finest matings in existence.

Early Chicks

As usual, I have them. Big, well-matured early cockerels and pullets for your Fall Shows. Birds that will win for you and make superb breeders. Cockerels \$10.00 each upwards and pullets \$7.50 each upwards. Exceptional quality at any price you wish to pay. Let me know your show and I will tell you the right price to pay to insure winning.

Every inquiry will have my personal attention, and every order will be selected for you by either Mr. Davey or the writer. Our long experience is at your service.

OWEN FARMS

Office at 107 William St.
Vineyard Haven, Mass.

Maurice F. Delano Frank H. Davey
Proprietor Superintendent

heat at this season. If you have waste pasture land available, try a brood or so of goslings. After they are well started they require very little attention, except shelter, green range to graze on and plenty of drinking water. Ducklings require more grain than goslings, but are easily and quickly grown. Green ducks should be ready for the table or market when from ten to eleven weeks old.

* * *

Start hatches the last of this month for chicks intended for winter chickens or soft roasters.

* * *

Some hatcheries are offering baby goslings, ducklings, and guinea fowl. Look up your local hatchery for supplies if you do not find what you want advertised.

* * *

Open up the poultry houses, brood coops and brooders on warm sunny days. The powerful heat of direct rays of summer sun will soon make poultry quarters exceedingly uncomfortable unless due attention is given to running things wide open.

* * *

The University Farm, Minnesota, reports that grain rust threatens the crops all thru the wheat belt. As the old lady said: "If it isn't one thing it's another." Grain rust harbors on and spreads from barberry bushes and the work of eradication of barberries is being speeded up. Here in the East we have the pine blister rust, which uses the currant and gooseberry bushes as its intermediate host, and State authorities are compelling the digging up and burning of gooseberry and currant bushes. The pine blister rust seriously threatens the life of our growing white pine timber. We like currants and gooseberries, but the plants have had to go, as the pine timber is far more valuable and necessary. The gipsy moth caterpillar, when fall grown, has developed a taste for pines and other evergreens and is becoming very troublesome. These pests do not seem to be affected by poisonous sprays after they reach an inch and a half long, every high wind drives them before it from infested woodland and they attack any green growing thing on which they land. We have had millions of these ravenous and repulsive pests blown in on our place the past three seasons, and this year they are more numerous than ever.

* * *

The All-Northwest laying contest in its report makes the following statement:

"Under present prices of feed with a flock average of 12.5 dozen eggs per bird per year, eggs must net 40 cents per dozen to make a wage of 30 cents per hour for the poultryman. Four classes of poultrymen can survive under present conditions.

"1. The man who produces a part or all of his feed, in particular grains and milk.

"2. The man who operates on a scale over the average, so that a small income over feed per bird can be multiplied sufficiently to make the business pay. This means large investment, labor-saving equipment, high-grade stock, better than the average facilities for buying feed and marketing eggs.

"3. The man who sells day-old chicks, hatching eggs, exhibition and breeding stock.

"4. The man who has an adequate bank account back of him, with faith in the poultry outlook sufficient to warrant the setting of present loss over against future prospects."

Why should the poultryman be expected to be content with 30 cents an hour, assuming that he can get it? Skilled labor everywhere is bringing

Easy Way to Get Eggs Summer or Winter FEED "OCULUM"

"I fed 'OCULUM' 24 days, eggs increased from 8 to 42 a day."—H. C. MILLER, Akron, Ohio, Judge Am. Poultry Assn.

Sold the world over for years.

O. K'd by experts and Poultry Journals. Bottles 50c and \$1.00; pint, \$2.00, delivered. "OCULUM" booklet tells how to rout lice and disease, hasten moult, save feed, cut labor. Worth \$1.00, but IT'S FREE. This Journal O. K.'s us.

"OCULUM" CO., Box B, SALEM, VA.



500 Hens

S. C. Wh. Leghorns

One and two year old. \$1.00 and \$1.25 each. Must be moved at once.

Also Pullets and Cockerels—8-10-12 Week.

SUNLIGHT POULTRY FARM
Box A LYNCHBURG, OHIO

Riley's White Wyandottes

SUMMER SALE: Fine breeders as well as exhibition birds to be sold at remarkably low prices. Need room for growing youngsters. Write your wants and for catalog.

H. J. RILEY, Box A, Bryan, O.



SANDY'S WHITE ORPINGTONS



STOCK and EGGS at greatly reduced prices, from high grade prize winning stock. Let me know your wants.

R. E. SANDY Box 45 STUARTS DRAFT, VA.

Trapnested Breeders

from my high record

S. C. W. "Lay" ghorns

from stock with record as high as 288 eggs. My birds make money for me and will do the same for you. Send for catalog and tell me your wants.

Emory H. Bartlett Box 19 Enfield, Mass.

OAT SPROUTER \$2.46

For \$2.46, including heater, you can make the best oat sprouter on earth.

Plans for building, 10c.

I. Putnam Route 7805 Elmira, N. Y.



STANDARD FOWLS.

The Recognized Headquarters for High Class Poultry. Ducks, Geese, Guineas, Games, Turkeys, Pheasants, Yokohamas, Peafowls, Bantams. All standard varieties. Stock for sale. Satisfaction guaranteed.

F. C. WILBERT & CO. Grand Rapids, Mich.

Single Comb Black Minorcas

SUMMER REDUCTION SALE of surplus breeders. From the Chicago winners 1916-17-18. From June 1st to Sept. 1st at one-half the regular prices. ROYAL POULTRY FARM Box 500 OSSIAN, IND.

PERRY'S Rose Comb WHITE LEGHORNS win 1st Chicago, National Club meeting, etc. Bred 16 years for eggs and beauty. Bargains in fancy show cocks and hens, also fine young stock in Sept. Safe arrival and reasonable satisfaction guaranteed. LOUIS H. PERRY Route 8 CLAY, N. Y.

Mention the American Poultry Journal when writing to advertisers.

from 75 cents to \$1 per hour. Ordinary unskilled labor is collecting from 40 to 50 cents per hour for a short day. The U. S. Dept. of Labor, in a recent press statement, said that farmers should pay 40 to 50 cents per hour with board for farm labor. Is it reasonable to expect the proprietor of a poultry farm, with capital invested, to take all risks and do the work of producing valuable food like poultry and eggs, for 30 cents per hour, or less than an unskilled laborer's wage? Here in Massachusetts last year eggs averaged to bring 45 cents per dozen, which did not break even with production costs in most cases.

* * *

Cull the flocks often and weed out the undesirable. If there are any weaklings or runts in the flock, cull them out and force feed them in a small run for food. Select promising specimens now for the fall fairs and give them special care in comfortable quarters and well-shaded runs. Small flocks are best when growing stock for show purposes.

* * *

Early pullets, intended for fall and winter layers, should have liberal range on grassland with abundant shade. Keep them well fed and growing steadily.

* * *

Adult stock, which is thru laying and which is not to be carried over another winter, should be marketed or canned for home use before the molt. Selected yearlings which are to be wintered should, if possible, be given orchard or woodland range and fed sparingly on hard grain. If range is ample and greens abundant they will need little grain and will pick up enough insects to supply animal food. If insect life is not plentiful, skim-milk, scalded-fresh fish, beef scrap or fish meal should be supplied. Made to hustle for the greater part of their living until the latter part of August and then worked on to regular laying ration, they will molt early, make a clean molt, and come into laying when eggs are at top prices. It is not wise to force stock intended for breeding purposes for fall and winter eggs.

* * *

Commenting on the self-appointed advisers of our farmers and constant appeals to the patriotism of our food producers, *New England Homestead* indulges in the following sarcasm:

"Mr. McAdoo granted the railroad employees an extra quarter of a billion of dollars; the farmers of New York the same day were cut 1 cent a quart on milk. The farmer should display his patriotism by producing cheap food, that the man who is in a munition plant working a few hours a day and receiving from \$4 up may be care free and happy. Why not treat farming as any other business? If munitions are needed, or any other material, money is forthcoming, factory is built, and the investment is expected to pay reasonable dividends. Land is plenty and on the market. Why do not some of these advisers form companies, buy the land, feed the world and grow rich; if they are satisfied there is money, health and wealth in it, and not be forever giving away a thing?"



Catalogs in Colors



FOR BREEDERS OF

S. C. W. Leghorns and Barred Rocks

Would you like to have a fine catalog of your own, handsomely illustrated in colors, but find the cost too much? If so, send for a sample and prices of my special catalog in colors, mentioning which of above breeds you want. Prices from a row as \$7 up. Very prompt service.

THOMAS NASH, 523 Plymouth Ct., Chicago, Ill.

BABY CHICKS

Reduced Prices for July and August.		Lots of 25	Lots of 50	Lots of 100	Lots of 500
R. and S. C. R. I. Reds.....	\$3.75	\$7.25	\$14.00	\$67.50	
Barred Rocks (The Real Ringlets).....	3.75	7.25	14.00	67.50	
S. C. White Leghorns.....	3.50	6.75	13.00	62.50	
S. C. Brown Leghorns.....	3.25	6.25	12.00	57.50	

We pay Parcel Post. Live delivery guaranteed.

We also have other popular breeds.

Write for our catalog today. It tells about our varieties, manner of doing business, etc.

THORNWOOD POULTRY YARDS AND HATCHERIES, Dept. 123, CRANDALL, INDIANA

S

SINGLE COMB WHITE LEGHORNS

S

SPECIAL ANNUAL HALF-PRICE SALE
COMMENCING JUNE 1ST

Yearling Cocks and Hens, Mated Trios, Pens and Yards
Also a Few of Our Breeding Yards—just as Mated

A GENERAL CLEAN-UP EVERY YEAR—EVERYTHING at HALF-PRICE

Write for free Illustrated Catalog and Mating List.

MRS. E. B. MARTIN RANCHO DEL MARTINO P. O. Box N, Downey, Cal.

EGG-O-LATUM

Keeps fresh eggs perfectly fresh for one year. It is applied nearly as fast as you can transfer the eggs from one case to another. Costs only one cent per dozen. Less expensive, less labor and more efficient than any other known method.

"Put down sixty dozen eggs last summer with Egg-o-latum and used them up till February. Not one spoiled. We think it fine."—Mrs. P. L. Porter, Macy, Neb.

"Last spring I put down eggs with Egg-o-latum and find it so much superior to water glass."—John S. Nichol, Bellevue, Pa.

"We kept Egg-o-latum eggs nine months and they were just as fresh as at first. It is far superior to water glass or lime water."—Thos. B. Harrison, Tacoma, Wash.

Egg-o-latum is sold by dealers or post-paid by us at 50 cents per package. Ask your druggist. Booklet free upon request.

GEO. H. LEE COMPANY 302 Lee Bldg. OMAHA, NEBR.

1st Buff Orpington Hen
Indianapolis, 1917

No, July Hatched Chicks are not as good as March and April hatch

If they were, no one would reduce the price of eggs, but you may get a few good birds hatched as late as August 1st. If you want to try a few settings for the month of July only, will furnish 30 eggs for \$3.00. Order direct from this ad.

THEODORE HEWES, 25½ W. Washington St., INDIANAPOLIS, IND.

Single TOMPKINS' RHODE ISLAND REDS Rose

Big sale of breeding stock now on. 400 birds for sale at one-half their actual value that will fit any breeding pen for another season's work. Eggs from my best pens are now one-half price and still time to hatch the late show winners this month. Let me know your wants fully and I will be pleased to quote you on a single bird, trio or pen. Address

HAROLD TOMPKINS Box A CONCORD, MASS.

Summer Sale of Wyandottes SILVER, GOLDEN AND WHITES

I offer many fine birds out of our matings at greatly reduced prices. None better. Many winners and also heavy layers. Eggs now \$2.50 and \$1.50 a setting. Large discounts.

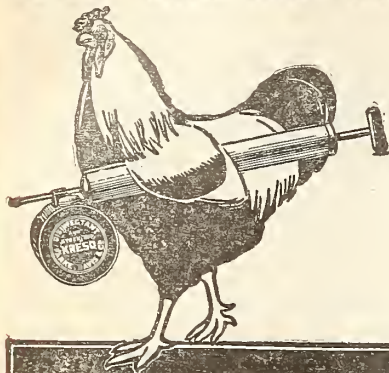
IRA C. KELLER, Brookside Farm Box 75, Prospect, O.

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HEALTHY POULTRY

KILLS LICE AND MITES.
WILL HELP STOP LOSS FROM DISEASE.

**One Gallon
Makes 72 Gallons**

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EQUALLY GOOD FOR ALL LIVE STOCK.

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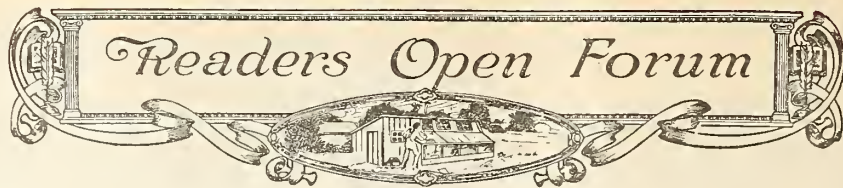
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World's Greatest Layers

S. C. W. Leghorns W. Wyandottes
S. C. R. I. Reds Buff Orpingtons

\$5.04 PER PULLET in 5 winter months
that's the prize-winning record for value of eggs laid by our
pen of 5 Leghorns at Leavenworth in the severest winter
known. Our champion pullet No. 1104 laid 25 eggs in coldest
January in 36 years; our pen of five Leghorns laid 105 eggs
same month. *Merely another proof that our perfected Eng-
lish 500-Egg Strain leads in every competition.* O'HEN
RECORDS: 294 eggs in 320 days laid in last N. A. Egg Con-
test by our World's Champion Wyandotte, *beating all entries*
of all breeds. First Prize Leghorns N. A. Contest, 5 hens
laid 1193 eggs; 2nd prize, 5 hens laid 1043 eggs; Wyandottes,
Missouri Egg-Laying Contest, 10 hens laid 2005 eggs.
Most profitable poultry known—cockereels, pullets and hens
from champion pens. Write today for book, "Story of the
200 Egg Hen." Price, 10c, refunded on first order.
PENNSYLVANIA POULTRY FARM, Box 1, LANCASTER, PA.



Readers Open Forum

Organizing.

POULTRY co-operative organizations are being formed in many different sections of the country and the poultry press is speaking a good word for these organizations which are to protect the future of the poultry industry.

I believe that co-operation is the keynote to success in any undertaking. Even the nations of the earth must eventually co-operate, one with the other, one for all and all for one, or fall. Co-operation in a family means that the family will prosper. Co-operation in the community means that its interests will enlarge and grow in usefulness. Co-operation wherever and whenever tried has helped, according to the real co-operative spirit displayed within the organization.

During the past spring I have attended several meetings called for the purpose of perfecting poultry co-operative organizations and, because of the existing unfavorable condition in poultry keeping, have been greatly surprised at the large numbers gathered together to effect an organization, many coming from long distances and at great personal sacrifice and expense. It appeared to me that conditions were never more favorable for the formation of a good live working organization. In one instance an organization has been formed, but with a much smaller membership than should have been enrolled. Certainly twice as many members should have been included at the start and several thousand more should now be a part of the organization. Why is this not the case?

From talks with various producers, I venture the following opinion: Organization, to be effective, must include the great majority of those engaged in the work of the industry to be organized. A small minority of the poultry producers of this country may organize and decide how best to save the industry, but without the great majority the organization may make rulings and regulations which they will be unable to carry into actual working. Co-operative poultry organizations should include all poultry keepers as members. How may this be brought about? By giving

every member of the organization the same privileges, regardless whether he keeps ten hens or ten thousand. It is of far greater interest to the man with ten thousand hens to have the man with ten to one hundred hens a member of the organization than it is to the ten-hen man himself, because the latter can afford to dispose of his few surplus eggs at any old price to his neighbor and thus curtail to a slight extent the demand for eggs from the big plant.

The thing which every co-operative poultry organization should bear in mind is that every poultryman needs such an organization and every poultryman is ready and willing to become a member if he is given a square deal, and that without every poultryman, big and little, the organization cannot bring about the result for which it is formed.

At one meeting which I attended when an organization for the protection of poultrymen was in process of formation, a somewhat lengthy discussion was participated in, relative to the rights of members, opinions varying considerably as to whether members should have equal voice in governing the organization or according to the number of fowls possessed by the member. Naturally the members of the organization were to be taxed according to the number of fowls kept, the funds to be used for the support of the organization and especially to bring about improved conditions in poultry keeping. Dissension arose over the proposition that a man keeping 100 hens should be accorded only one vote in the meetings of the organization, while a man who owned 1,000 hens should have ten votes and one with 10,000 hens could practically control the organization with his 100 votes, especially if he happened to have a friend or two in the organization with an equal number of votes. In this way, two or three men could out-vote the entire organization.

After the meeting I talked with a number of those present and overheard numerous groups discussing this feature of the organization and the verdict generally was, that this ruling, which was adopted by the organization, would keep



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$\frac{1}{2}$ ————— Eggs Half Price ————— $\frac{1}{2}$

from the best birds in the United States. My flock includes the entire flock of Columbian Wyandottes of the Wilburtha Farms, Trenton Junction, New Jersey. All their winners are in my yards.

SOME GRAND STOCK FOR SALE. Send for my free catalog and mating list giving full information.

J. W. GARVEY Box A THAYER, ILL.

out the greater number of poultry keepers.

I am well aware that in all stock companies a man with one share of stock gets only one vote and a man with fifty-one percent of the stock controls fifty-one percent of the votes, but I am convinced that agricultural organizations will not accomplish their aims by the adoption of this procedure. Many years ago, men voted according to the amount of property they owned. A man owning no property had no vote, but this has long since been declared undemocratic and detrimental to the best development of the nation. It will eventually be found to be equally as detrimental to any company or organization.

A man or woman may engage in the poultry business on a small scale with little capital and he may do this while he is earning his living at some other employment. The big producer cannot, therefore, so easily squeeze the little fellow out of the poultry business as he can in other lines of trade and no matter how he may contrive to control prices on poultry and eggs, he must compete with numerous little producers in every locality. An effective organization of poultry keepers should include every man, woman and child who keeps ten hens or more, and every member of the organization, whether he owns ten hens or ten thousand, should have an equal voice in the organization. I believe this would bring about the much desired, much talked about poultry co-operative organization, with clubs or branches in every county and state in the Union, which could bring about the results all poultry keepers seek—an opportunity to make a fair and honest living. Within a year it would be possible to have practically every poultry keeper in the United States a member of such an organization. I would like to see the opinions of other poultrymen on this subject published in AMERICAN POULTRY JOURNAL. How many are ready to work for the success of such an organization? Massachusetts. J. H. Morse.

A Word from Australia.

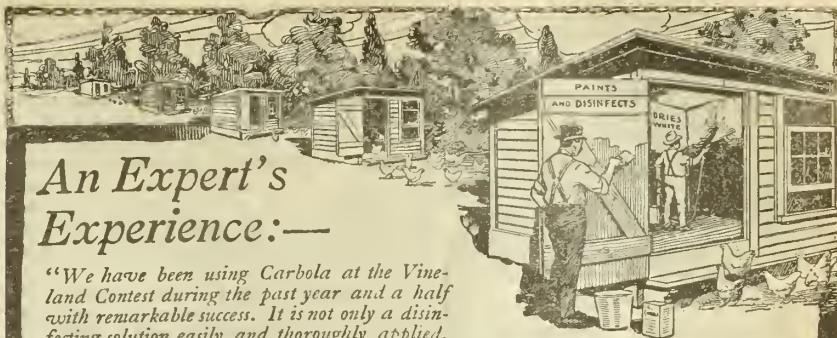
I have been trying to get some good photographs of the birds in our egg laying competition, a report of which I have sent you, and expect to forward same to you soon. Will also send you the results of the State Government competition in a later mail.

The AMERICAN POULTRY JOURNAL is the "goods" and it is read by our household from cover to cover each month. Australia. E. J. Hardy.

Experience With Fruit and Poultry.

I regret that AMERICAN POULTRY JOURNAL is not read by the entire consuming public of this country, because of the conscientious and truthful stand which you have taken in regard to the unfairness shown food producers in this country at the present time.

I have particularly enjoyed reading Dr. Woods' Notes and Comment, and my experience agrees perfectly with what he has to say on the food situation, except that he speaks of easier conditions in the Middle West. I have always considered that I live on the northern edge of this section, and I can assure you that conditions here are just as trying as anywhere in the country. I believe the only poultry products that can get by under present conditions are those pro-



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"We have been using Carbola at the Vine-land Contest during the past year and a half with remarkable success. It is not only a disinfecting solution easily and thoroughly applied, but it is also an excellent germicide, and due to the fact that it leaves the interior of the buildings white, adds much to their attractiveness. We are using it extensively at our poultry plant at New Brunswick and contemplate going over all our houses this summer in preparation for fall and winter."

One of the best known and highly esteemed poultry experts in the United States wrote the letter from which the above is quoted. You will be equally pleased if you use



a paint in powder form combined with a disinfectant many times stronger than pure carbolic acid. It is non-poisonous—harmless to the smallest chick—but it kills lice, mites, etc., and helps keep the germs of contagious diseases, such as roup, white diarrhea, glanders, contagious abortion, etc., from getting a start and spreading thru your flocks and herds. Carbola is ready to use as soon as mixed with cold water and can be applied with brush or sprayer to wood, brick, stone or cement surfaces. No disagreeable odor; will not blister, flake or peel off. One gallon covers 250 sq. ft.

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We also offer a very few choice Columbian Rocks.

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Made in 10 Colors—6 Sizes

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No. 3—Baby Chick	10c	20c	35c	50c	\$1.15
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from my Improved Laying Strains of White and Barred Plymouth Rocks, White and Buff Orpingtons, Rose and Single Comb Reds, White Wyandottes and S. C. W. Leghorns and your careful attention will mean your success.

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of practical poultry experience has been incorporated into my bred-to-lay strains in such a manner that brings forth unsolicited hundreds of repeat orders from customers of many years' standing. My catalog contains descriptions of my plant by representatives of the leading poultry publications, reports from many of my customers, and also my methods of breeding, care and management. It is fully illustrated and very instructive and will prove to you that my prices on females at \$2.50 and up and on males at \$3.00 and up are very reasonable.

Start right by writing for my instructive catalog today. It has helped others and will undoubtedly help you.

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They are consistent producers of large white eggs—they make a most delicious table fowl and win championship prizes the world over. Our annual introductory sale on eggs that will hatch, day old and partly matured chix, layers, breeders and pens is now on Superb quality at real bargain prices. What have you in mind? Will do our part. Sales list and assistance free. 25 years a specialist.

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From our fast developing, quick maturing strains; make meat fast. Leghorns at 10c, Reds and Barred Rocks at 12c, White Wyandottes and White Rocks at 13c each. Pullets will lay in November. Orders filled promptly.

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Kills lice on poultry and stock. Guaranteed. See your poultry supply dealer.

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Show and Utility Stock.

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Mention the American Poultry Journal when writing to advertisers.

duced by the backwoods country woman who trades eggs for calico and who makes no account of what eggs cost to produce.

I have forty acres of fruit land (light soil) and the trees are all doing finely, but produce no income yet. Our small fruits are profitable, and with our poultry and cows and raising some early vegetables, we have always had something to bank on yearly, until this past season, which shows our business management is not at fault.

Presuming that the law of supply and demand was still in force, we began the winter with confidence and managed to hang on, without mortgaging, to pay feed bills until spring.

By exercising the strictest economy and by having enough cash to pay our board and throwing in our labor without charge, as well as having the advantage of the Chicago market, we managed to pull thru to grass. Beginning with January, I had a 50 percent lay from White Leghorn pullets housed in open front houses and they climbed to 80 percent. Just now they are back near 50 percent again. These birds easily cost me \$1.25 each before they laid an egg and they are not paid for yet.

This neighborhood has many commercial poultrymen, with flocks up to 2,000 birds, and practically every one of them has had similar experiences or worse. There were also heavy losses in this section on account of the restriction on sale of hens.

I want to be able to make a living here until my trees come into bearing, and moreover I should like to be able to buy a few small bonds to show my patriotism in a substantial way, but it is bad business to spend the money which such a business as mine should net—but does not.

Michigan. H. W. Haddock.

Guineas.

It is not too late to hatch out a few broods of Guineas in July. There is no finer eating than Guinea chicken, roast, fried or broiled. They are great foragers, mature quickly and every farm should have a flock of these lively little fowl. The eggs are as good as hen eggs and the Guinea hen lays every day during the laying season. The egg is slightly smaller than a hen's egg, the shell being speckled. On our farm we raise a good flock of these birds each year and they serve as gleaners in the grain and grass fields, roaming all over the farm and picking up the greater part of their living. They are given the freedom of the farm as soon as the grain and grass is cut and it is surprising the amount of good food they find as they glean the fields. If these birds had to be fed three meals a day, few of us could afford to raise them in these days of high priced grain, but as they go about themselves and gather up the waste seeds and grains left from harvesting and convert it into good juicy meat, we regard them as real conservers of foodstuffs. It would cost man a great deal to save this waste grain and it would not be worth the price, but the Guinea goes about the job, day after day, from the day he hops out of the shell, and keeps it up until he develops into a sweet, luscious broiler or roaster. Every farm should have its flock of Guineas.

Pennsylvania. S. R. Bryde.

SABRINA FARM

WHITE Wyandottes

are bred primarily for heavy egg production. We believe that our breeding stock should not only be vigorous, lay large hatchable eggs, and produce heavy laying offspring, but should also be real standard high quality birds that can hold their own in the show room. We have recently purchased the entire flock of

Owen Farms White Wyandottes

and offer now at half price a limited number of cocks and hens from their best matings. Also from our own utility pen. Let us quote you prices on fine, early hatched cockerels to head your breeding pens next year or for showing this winter.

Every order or inquiry has my personal attention.

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exclusively. Get our low prices on day-old chicks breeding stock, eight-week-old pullets and cockerels. Our catalog is free. Write for it.

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July Special—Eggs from our best; exhibition matings \$5 per 15. These yards contain

The Greatest Chicago Winners.

Summer sale of surplus breeders at half prices. Some rare bargains are offered. Write for lists.
Longfield Poultry Farm Box 321 Bluffton, Ind.

Mills Creek Poultry Farm

offers reduced prices on WHITE WYANDOTTE EGGS and STOCK during July and Aug. Write your wants.
MILLS CREEK POULTRY FARM, Eagleville, Ohio
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Winners at Dayton, Columbus and Springfield. Write for prices. LEIGH BICKETT, R. R. 9, Xenia, Ohio

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Horticulture for Poultry Keepers

Conducted by Thos. F. Rigg, Iowa Falls, Iowa.



I HAVE bought, or, rather, am paying for fourteen and three-fourths acres of land at Alderwood Manor, twelve miles north of Seattle. I intend to raise poultry and Belgian hares. Have had considerable experience in both.

Could I raise fruit and poultry together? The land is logged-up land and gravelly. It is on top of a hill and well drained. Now, I don't know anything about trees or market conditions in Seattle, but my wife and I want to make a success of our undertaking. I am 35 years of age, "sound and a good worker." The Puget Mill Co. advises the planting of fibert nuts, but they cannot supply stock for

another year. I want to move out there early next spring and still keep working in the ship yards. We have good interurban service.

Please tell me what to plant and would it be all right to set out trees this fall? I have heard that there are several medical plants and herbs that could be grown here. Do you know about that?

Washington.

A. W. Anderson.

You certainly can profitably raise fruit and poultry together. It is an ideal combination. The character of your land as regards air drainage, water drainage and soil is extra good. You should have none, or little, damage by frost, as the cold air will seek the lower ground. Then the water drainage is all right. That is important. You do not say what kind of sub-soil you have. If it is of clay so much the better. A gravelly loam with clay sub-soil is ideal for fruit growing.

Now as to what kind of fruits you should plant. Your soil is ideal for the growth of small fruits, especially raspberries and blackberries. It seems to me Seattle ought to take all the fruits you could raise and at a good price. Set aside a number of acres for a commercial orchard. I cannot tell you just how many acres, for you must decide that yourself. It looks to me as tho you have exceptionally good soil for the production of cherries. From your description of the soil it is ideal for cherries. Consult your state authorities as to just what variety is best suited to your immediate locality. Set trees 20 to 25 ft. apart. Intercrop the young orchard with raspberries. Be careful to leave several feet of space between the rows of berry bushes and the young trees. Bear in mind that the cherry orchard is the main thing in this enterprise and that the berry bushes are temporary—put there to bring in a revenue while the cherry trees are maturing. Of course, you will want some apple trees. Also some pear, peaches, plums, grape vines, currant and gooseberry bushes. Owing to the fact that soil and climatic conditions are so varied in your state (as in all mountain states) I will not name varieties for you to plant, but advise you to consult your state authorities.

I advise you to be careful in the planting of medical plants. You might investigate this matter, but I do not think it worth your while to do so.

I am no longer a subscriber to American Poultry Journal, as I am compelled to give up the farm for a while, as my husband is going to enlist in the service soon and thinks it best not to leave us so far from town, as we are eight miles from the nearest town. I have been away for some time and just recently returned and find a host of letters from people inquiring about Arkansas. It would be impossible to enumerate all the letters I have received since I wrote that letter to you last December. I have tried to answer all I received, but some found they way to another Mrs. Call and some were addressed wrong, so I suppose there are some I will never get. For the good of all I am going to write a description in general of this part of Arkansas. I want to say this, that never before did Arkansas look so good to me as on my arrival from the dirty, dusty streets of the city.

Eureka Springs is in the northwestern part of the state. It has an elevation of 1,462 ft. and a population of 3,572. It has the finest mineral water that nature can produce and is a noted health resort. The country is mountainous and the soil is naturally adapted to fruit and berries of all descriptions, also grapes. Gardeners and truck farmers, dairymen and poultry keepers do well around Eureka Springs; in fact, anyone can raise anything

JULY CHICKS LAY



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July hatched make ideal winter layers. They quickly mature under warm summer skies, grow into hardy birds, and start laying in December. They just get nicely started in the Christmas month and then settle down to real business in January.

My Ancona Baby Chicks Now Coming Off Will Feed Thousands This Year. The Sheppard Annual Summer "Sail" of baby chicks and eggs for hatching is now on. Write for special price list, right away.

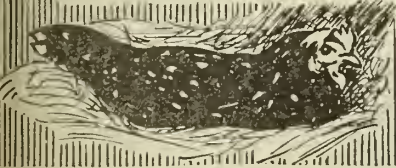
The demand for Sheppard's Famous Anconas has been remarkable.

If anything, the birds are BETTER than ever before—there is no sacrifice of quality. It is both profitable and patriotic to keep some good layers.

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H. CECIL SHEPPARD

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in December



IN THE SHEPPARD "KINDERGARTEN"

there are thousands of baby

Anconas. The owner of Ancona hen—holding the world's individual record of 331—bought her wish 11 other babies. These youngsters are all the "Famous" quality. You're likely to get another winner—and you are SURE to gain birds that will astonish you with their egg producing ability, their beauty and general excellent qualities. Get your babies from the SHEPPARD Kindergarten this year. Write for catalog and special prices.



Pages 26 and 27 will especially interest you.

H. CECIL SHEPPARD
Box M2 BEREA, OHIO

SPECIAL SALE FOR JULY

If you intend buying poultry, buy it now and save at least a third. I have never before been able to give the value I can and will give you this month.

U. R. Fishel's White Plymouth Rocks

are the best possible in poultry. The leading winners, the leading egg and table fowls, in fact they are considered

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Selected Breeders, Utility Fowls and Exhibition Birds that are sure to please. Write me your wants, and I will quote you prices that will please you.

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Box A

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Stop Bugs Everywhere

BUGBEAR is harmless to poultry and stock—but sure death to insects and germs. It never evaporates or grows hard, and it is not sticky.

BUGBEAR keeps destructive, crawling insects out of trees. A ring of **BUGBEAR** around your garden will keep out everything that can't fly.

Sold by poultry and garden supply dealers everywhere.

Prices

1-pound can, 45c
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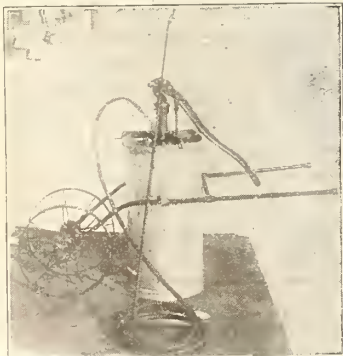
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Please send me your new free book on **BUGBEAR**. Also mail me \$..... worth of **BUGBEAR** for which I enclose money in payment.

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Cog gear handle, brass cylinder and valves. Satisfaction guaranteed. The best sprayer made for spraying trees, vines, plants, or whitewashing buildings, disinfecting, etc.



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Everlay Brown Leghorns

Eggs half price. Special bargains in stock. America's greatest winning-laying strain.
H. V. TORMOHLN Box 2 PORTLAND, IND.

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they want to almost. The land is mostly rough and gravelly, but produces well. We have mild winters usually. The past winter was the coldest ever known. The temperature dropped to eighteen degrees, which is something unusual. Our summers are pleasant, as there is seldom a day when we haven't a cool breeze blowing. There is fine farming land around Berryville and Hiresville, also along King's River and all other small streams. The upland will produce where it doesn't look like it would sprout peas. Good farms with modest improvements can be bought for \$15 to \$25 per acre. Unimproved land can be bought for as low as \$5 per acre. Of course location has something to do with it. Places close to town sell for more than those farther out. We have a good market the year around, almost on a par with the Kansas City and St. Louis markets.

Last year was a wonderful, bounteous year with us. We raised a wonderful crop of everything. Our sorghum was the finest I ever saw—as clear as honey—and we had all kinds of fruit. Our hills are now covered with huckleberries, which will begin to ripen the last of this month and will ripen on till August and September—free for the picking—and they are luscious good fruit too. Last year the woods were one great grape vineyard. I never saw so many grapes. This is not always so, for often they get stung and blight. Bees do well here. Most every family has a few hives of bees. There are lots of bee trees to be found in the summer. The bees are doing fine this spring.

We also have ticks and chiggers. It would not be right to mention all the good things and forget these harmless mean things. There was one lady who wrote me asking if we had snakes. Yes, we have them, all shades and colors, but one does not take much notice of them, as they are usually just as anxious to get away from us as we are from them.

I trust I shall be able to greet some of my American Poultry Journal friends in Eureka Springs some time and hope to be able to renew my acquaintance with American Poultry Journal folks as soon as this terrible war is over.

Arkansas. Mrs. Miles Call.
* * *

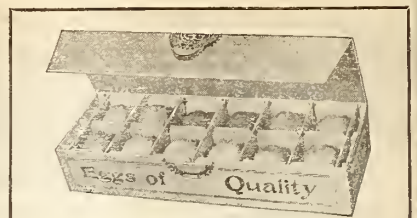
In answer to James K. Sweet, Ontario, Canada: I am sure you will make no mistake in planting Early Elberta and J. H. Hale peach trees. To fill out the season you should also have some Krummel October and late Elberta. McIntosh Red and Wealthy apples are ideal for your section and you will make no mistake in planting these varieties. Yes, Winter Banana is a good apple and a profitable variety in some localities, but I advise you not to plant largely to this sort.

* * *
You probably know that the state of Kentucky (the land of mystery) is very different from any other place on earth and I would like your opinion as to just what kind of fruits would thrive best in this part of the state.

I am located in the center of the new coal fields in the mountains of southeastern Kentucky, Perry County. The river valleys are about 800 to 900 feet above sea level. The valleys are usually sandy loam, the slopes of the mountains are sandy loam and clay subsoil and the tops of the mountains are clay-like. We have enough rainfall. The winters are sometimes severe and sometimes we scarcely have any winter at all. The most peculiar condition of the climate is the sudden changes of temperature, the thermometer dropping from fifty to sixty degrees one day to zero weather the next. The spring season is sometimes real warm in later part of February and March, causing the fruit trees to bloom, then a freeze coming in later part of April or May to kill all the fruit. I have seen eight inches of snow here on May 20, long after garden truck and corn were being cultivated. Fruit brings high prices here. Eggs run from 30c to 80c per dozen.

I am thinking of planting a commercial orchard and would like your opinion as to just what kind of apples, peaches, pears, plums and cherries would be best suited to this section. The different kinds of apples now growing here which were mostly brought here from Virginia and N. Carolina are the Melom, Queen, Horse, old striped Ben Davis and Yellow Sweet. They are almost sure bearers here. Peach trees only live about three to five years here.

I have a demonstration orchard of 100 trees from Stark Nurseries, containing about twenty varieties of their highest recommended apples. These trees have been growing about three years and are looking well.
Kentucky. S. M. Boggs.



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No. 1 Mill for grinding Dry Bones, Oyster Shells, Grit and Grain for poultry.
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HEAVY DOUBLE GALVANIZED WIRES. Outlast chicken netting 5 to 1—costs less. Get free Book and sample to test. Address Dept. 3
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PEARL GRIT the "Double Purpose Grit" keeps hens healthy and makes them lay. It grinds and prepares the food for digestion and supplies the necessary shell-making and egg-building elements. Write for free booklet.
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Langshans
The Best
Summer Prices. New Catalog.
M. S. Barker, R. F. D. No. 1, Thorntown, Ind.

The Thrift Feed for Chickens

You certainly have an exceedingly changeable climate, and one which it is hard for a fruit grower to reckon with. It seems to me that notwithstanding your fickle climate you ought to make a success of fruit growing, for your market is first-class. I feel confident that if you will locate your orchard on the mountain side you will experience no trouble from frosts. Down in the valley where the cold air lodges as it comes down from the higher ground, the conditions for orchard planting are all wrong. The orchard on the higher ground will find an ideal condition.

Now as to varieties which you say do well in your immediate locality. If you can get good crops of these apples annually, and they are apples which can be sold at a good profit, why not plant those varieties? You speak of Ben Davis as one of these sorts. I believe you can sell all the Ben Davis apples you can raise and at a big profit. If the old Ben Davis does well there the Black Ben, which is the same type of apple, but better in every way, will do equally well. They are great keepers, immense yielders, large and beautiful and the south will take all you can raise. The Early Melon is an apple of the Wealthy type, which is especially suited to your conditions and will make you big money. Be sure and plant this variety.

In cherries, plant mostly Montmorency, with a few Early Richmond. Pears—Lincoln and Keifer. Peaches—Early Elberta, J. H. Hale for main crop, Krummel October for late. Plums—Gold, Endicott, America and Omaha. Wish you would report as to the behavior of the trees in your demonstration orchard.

* * *

In answer to Mrs. R. P. Clarke, Maryland: You can easily destroy the big black ants that are building mounds on your lawn. Place about one ounce of carbon bisulphate in a dish and set same on top of hill. Cover with a tight box. The fumes of the bisulphate are heavier than air and will penetrate to the bottom of the holes made by the ants, killing ants and all eggs. Be careful in handling the bisulphate in that no flame reaches it.

* * *

Our Lincoln pear trees came thru the test winter unharmed and will give us a big crop of fruit as usual.

* * *

For a number of years I have been much interested in the Henry Clay apple. This is a native of Kentucky. It is the earliest good apple with us. I was afraid it would not be hardy enough for this climate, but it has gone thru two test winters without being damaged in the least. Last winter took a number of sorts that were supposed to be entirely hardy. I am not yet prepared to advise the planting of Henry Clay here in a commercial way, but I believe it is entirely hardy. It is a heavy bearer of extra good looking and high quality fruit. I am very enthusiastic about this apple. In a few more years we can tell for sure as to its value as an orchard tree here.

* * *

At this writing, farm crops are looking extra good. The corn is up and even with what we all supposed was very questionable seed, the stand is a good one. We are having more rain than we need, but our usual dry and

KEEP your fowls tuned up in health and production by feeding Conservation Scratch. Answer the wartime call for more eggs and more poultry.

Conservation Scratch does it at minimum feeding cost—keeps fowls lively and healthy, gives them energy and strength. This economical and effective feed is a perfectly balanced combination of corn, kafir corn, milo maize, barley, oats, buckwheat and sunflower seed. It is a top-notch scratch feed which analyzes high in food value and does the work.

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Krause Poultry Feeds bring success to every poultry raiser. They are the result of careful analysis by poultry feed experts, and the product of one of the largest poultry feed manufacturers. Conservation Scratch and Krause Mash are the ideal feeds for egg production and body building. Conservation Chick and Developer feeds will give chicks the

right start—make them grow to strong, healthy, fine fowls.

Order Conservation Scratch, Krause Mash and other Krause Poultry feeds from your dealer today. Write us if he cannot supply you immediately. Send for free samples. Put your fowls on Krause feeds and profit as thousands of other successful poultry raisers are doing.

Chas. A. Krause Milling Co., Milwaukee, Wis., U. S. A.

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A dollar saved is a dollar earned

It takes a long time to establish a large flock of high record layers. I have been 28 years developing mine.

I have succeeded in producing them in such quantities that I am able to offer



8-week-old S. C. White Leghorn Pullets at \$1.25

from 200-249 egg record stock.

Year Old Breeders Barred and White Rocks, Brown and White Leghorns, White Wyandottes, Reds, from trapnested stock, with records of

180 to 200 eggs, each.....\$2.00
210 to 249 eggs, each..... 3.00

Order direct from this ad, or send for catalog.

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SACRIFICE SALE!



On account of shortage of labor must reduce flock. Will sell 500 choice one and two year old breeding hens for \$1.75 each, \$20 per dozen, \$160 per 100. These hens are from our breeding yards and already have been culled closely. Cocks and cockerels \$2.50 and up; worth double. Eight-week-old pullets \$1.25 each, \$14 per dozen, \$100 per 100. Also older pullets. Our pen was first in North American Laying Contest in May.

FOURCHE MOUNTAIN POULTRY FARM

Route 11 CUMMINS RATCLIFFE, Owner Little Rock, Ark.

You Should Send 25c for Our New Poultry Account Book.



Dr. Globe Says:

"Hustle Your Chicks Along

by feeding

Blue Ribbon Growing Mash

—Makes Them Grow Fast and Strong.

Just what you need to produce fat, juicy broilers. Ask your dealer for a trial bag."

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A perfect balanced hard grain ration. Just the right size for growing birds.

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Uncomfortable

Hens
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Lice Rid
Keeps Them
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One Size
3 Ounce 50 Cts.

THIS STUFF WORKS!

What poultry keeper can say that his flock is free from lice? These abominable vermin take all the pleasure and profit out of poultry keeping—they make the hen uncomfortable and mopey—they kill the chicks—they even kill the grown hens. It has been said by an authority that lice are responsible for more dead birds than any other enemy of poultry.

JORAM'S LICE RID KILLS THE LICE

It is a remedy for lice that never fails to work. It kills lice, and it prevents lice from getting onto the birds afterwards. JORAM'S LICE RID will kill HEAD LICE on CHICKS.

EASILY APPLIED

JORAM'S LICE RID is not like the other lice killers on the market—you KNOW they don't work—but JORAM'S goes after them in a "DIFFERENT" way. Vermin have a "base" of operations, just like submarines. You apply JORAM'S to the "base"—and the lice never move from there. That's where they die.

JORAM'S LICE RID IS ABSOLUTELY GUARANTEED to do the work, if directions are followed, or money refunded.

CHEAP It costs less than 1 cent per bird to apply JORAM'S LICE RID, and that's the end of it. You need this key to success in poultry raising. You need it now. One size, 3 ounces for 50 cents.

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PRESERVE EGGS



Western Water Glass

and get 60c for eggs that are now worth but 25c. One gallon (Price \$1.00) is sufficient for sixty dozen eggs. Use U. S. Government formula. Also put up in two gallon cans at \$1.50 and five gallon cans at \$3.00. Western Water Glass may be used for many other useful purposes. Put up and for sale by

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WINTER FEEDS NEEDED

Feed CRYS-CO.
A perfect mix of all the best feeds of all kinds.
Hens, turkeys, ducks, geese, etc. need no other feed.
Better results than any other feed for winter months.
W. P. C. & S. Co., St. Louis, Mo.

growing weather will come in due time. It always does. So why worry? Our farmers have put in an increased acreage of all crops. They are doing all they can to co-operate with the government officials in the effort to produce more foodstuffs and thus win the war.

* * *

Dr. Sumner Gleason, of Kayesville, Utah, originated the Early Elberta peach. In a recent issue I credited the introduction of this great peach to Prof. Dean Sumner. I do not know how I came to make that mistake. I ask Dr. Gleason's pardon.

* * *

In answer to Clarence Thorp, of Minnesota: The Peter apple is very much like the Wealthy. In fact, it takes an expert to tell the difference between these two varieties. Both were originated by Peter Gideon of your state. I would plant the Wealthy were I in your place.

* * *

The following letter refers to Major Lloyd C. Stark, who some time ago resigned the presidency of the Stark Nursery Company and enlisted in the service of his country. I know Lloyd C. Stark and was not at all surprised when I learned of the personal sacrifice he made for the good of our cause:

Louisiana, Mo., May 18, 1918.

My Dear Mr. Rigg:
I just returned home from Richmond, Virginia, where I spent several days with Lloyd. Found him working hard, but looking fine. He is commanding the Second Battalion of the 315th Regiment, Field Artillery. Expects to sail soon—in fact, I rather think he is on the water now. His battalion is the crack battalion at Camp Lee and he personally hit 19 bull's eyes out of 20, which I understand is the best record made at that particular camp. His naval training and experience is helping him at this time. He is very enthusiastic about the work and is anxious to "go over."
I know, you will be glad to learn that our copy carried in the American Poultry Journal pulled very well indeed and we are planning to use considerably more space this next spring than we did the past. There is a great opportunity for boosting fruit growing along with chicken raising, as they both go together.

* * *

Keep a sharp lookout for aphids in the young fruit trees. They will be especially troublesome this month. Spray trees with Black Leaf 40, to which add a small quantity of soap. The soap causes the liquid to adhere to the leaves of the trees. Every two weeks give the plums a spray of sulfocide. This will prevent the fruit from becoming rotten. It's a sure preventive.

* * *

In answer to Leslie T. Ward, Pennsylvania: (1) I do not know how you can wholly control the cane borer. The use of arsenate of lead just as all leaves are formed will hold this pest in check. Altho I annually spray the bushes with this poison (for the currant worm) I cannot entirely rid the bushes of the cane borer. Just as soon as you notice a cane has become withered cut it off. Follow down as far as it is hollow. You will find the worm and you know what you should do then.

(2) Be careful how you use arsenate of lead as a dust on cucumber plants. There is danger of getting on too much and this burns the plants. Slug shot is by far the safer material to use. It cannot injure the plants, no matter how much of it is applied, and it will kill the beetles on the plants. Be sure to dust the underside of the leaves and the stems.

(3) Yes, wood ashes are good to



RAISE the best broilers and roasters in shortest possible time at least expense, for your table or the market. It is a simple matter to put one-third increased weight on birds in twelve days with the ordinary feed by mixing

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The No-Trouble, Sure-Death Poultry Lice Exterminator

Different from and superior to all others. Not necessary to handle each bird separately to dust or grease. Merely hang a bottle of LICECIL near the roosts as directed. A lice killing gas or vapor is thrown off constantly—works all the time—no injury to the fowls—sure death to mites and lice.

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S. C. Buff Orpingtons

Winners at Greater Chicago, Ill. State, Peoria, Quincy, Monmouth, etc.

Eggs Half Price

Special Sale on Breeders. If you want quality at ridiculously low prices, write me. D. L. WARNER LITTLE YORK, ILL.

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Kill Rats & Mice by Science

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BY TO USE

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Natural Hen Incubator \$3

No freight to pay. Actual henc-trols everything. No lamp, no costly takes. Best hatcher in the world. Over 850,000 in use.

J. M. Peck, Ill., writes: "It is the best thing I saw for hatching chicks."

Another: "I got 507 chicks from 640 untested eggs."

Thousands of other testimonials. Agents Wanted. To reach the million mark in 1918 we will send you a Special Introductory Offer with our Free Catalog.

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Arlington Strain S. C. Reds

Eggs and stock for sale. Prize-winning quality. For catalogue and prices address

John E. Mack, - Box B, Arlington, Dutchess Co., N. Y.

Brookside White Wyandottes

American Laying Contest Winners. Eggs half price; hens and pullets at bargain price. Brookside Farm, G. W. Seligman, Prof. Montrose, Ill.

use on cucumber plants, but not so effective as slug shot.

(4) The Yellow Transparent apple blights badly when the tree is planted in heavy, rich soil. It is one of the very best of the early apples, and is entirely hardy.

(5) Stayman Winesap is the best winter variety for your state.

* * *

In answer to S. T. Collins, North Dakota: The Northwestern Greening apple is a hardy tree and the fruit is of fair quality. It ought to give you good returns. The tree does not come into bearing until quite old. Plant a few Duchesne, but make your planting largely of Wealthy. Patton's Greening is also a good sort for you to plant. It is a very hardy sort, a big cropper, fruit of fair quality and a good keeper until in January. Think you will find the Minor and Wyant plums hardy in your section.

* * *

The cyclone which struck a portion of Iowa in May caused great damage to the fruit trees. Trees were uprooted and carried away. The Hilton orchard of 40 acres of bearing apple trees was completely ruined. It is hard luck. Mr. Hilton, by years of careful attention and an expenditure of much money, built up one of the best and most valuable orchards in this state and it is too bad that it should thus be destroyed.

* * *

I have 3 Champion and 2 Elberta peach trees, 4 Apricot and about 10 apple trees that are just coming into bearing. We are going to have some peaches and apricot and quite a number of apples. I have been unable financially to buy an outfit to spray with until the present time. I am writing to inquire if you think it advisable for me to spray these trees now the fruit is set. I am going to get the sprayer, anyway, as I have to spray my potatoes, since the Colorado beetles are thick on them now. If you think it advisable, what would you use as a spray? Some of the peaches and apples were stung last year and a number of the apples fell off. I have the orchard pruned up in good shape and in good cultivation and am in a position to irrigate it. I irrigated it last season with the best of results. We had Elberta peaches which measured ten inches in circumference.

Kansas. C. F. Matthews.

Of course these trees should have been sprayed early in the season. It is now too late to use the materials which should have been used earlier. Watch the trees for the appearance of any leaf eating insects and for fungus growth. If necessary, spray with a combination of arsenate of lead and bordeaux.

* * *

If the raspberry, dewberry and blackberry bushes were not sprayed early this spring while in a dormant state, better get busy this month and next, and give them a thoro spraying every two weeks with arsenate of lead-bordeaux mixture. Unless properly sprayed early, these bushes are usually attacked by the anthracnose. The infected parts are circular at first and later become oval in outline. The areas are sunken. Destroy all infected canes.

* * *

We are going to have a big crop of honey this season. The whole country is covered with white clover. It looked early in the season as tho the clover had been winter killed. The sweet clover is abundant too. If we do not get a rain during the linden bloom the bees will

SAVE WHEAT!

Feed your baby chicks nature's food and see how they thrive and grow on it. You know how well the chicks thrive when they run at large with the mother hen—they do it on wild seeds.

MACMORE Brand Wild Seed Squab Feed

is nature's food—made up of wild grains—the seeds of weeds and native plants, the same as the chicks pick up on a range, and is highly relished by penned fowl.

Send \$1.00 for sample bag of 25 pounds and circular telling of results obtained from it in years of experience.

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Combination Bill-fold, Coin-purse, Card and Photo-case of Finest, Genuine Black Seal Grain Leather for only 50c, postpaid (\$5.40 per doz.) Any name beautifully engraved in 23-Karat Genuine Gold free (street number and city 20c each extra.) Measures 3x4 3/4-in. folded. Has coin-purse, bill-pocket, photo or pass-window, 2 secret pockets, check book holder and 48-page Memo-Diary, brimful of information. 12th annual catalog, Guaranteed Leather Goods and Novelties free with orders for "Bankroll" or sent alone for 10c postage.

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DISTINCTIVELY INDIVIDUAL

Winners of Highest Honors the world over. During July and August we will sell mated pens consisting of one male and four females for \$15. Trios for \$10. Rufus Red Belgian Hares of quality. Write for prices.

SHEFFIELD FARM H. B. HARK, Mgr. GLENDALE, OHIO

MINORCAS Giant Single Comb BLACKS

SALE—SALE—SALE—Big values for quick sales on surplus breeders. A pen of good birds now will produce your next year's layers. Catalog.

JOHN L. BROWN 1515 W. 7th Street ANDERSON, IND.

Keeler's White Wyandottes—5 Firsts Chicago

Egg records 200 to 273. Eggs and stock now half price. 2000 chicks growing, ready Aug. 15. Summer sales list and 64 page art catalog free.

CHAS. V. KEELER, R. F. D. 11, WINAMAC, IND.

Fernwood Leghorns

Make egg records. Win prizes too. Get large folder and low prices on stock. 10-week old pullets.

Walter O. Benson, 712 W. 103rd St., Chicago

Makes 'Em Turn up Their Toes Mighty Quick

There isn't a ghost of a show for lice and mites on hens, chicks or nests after a dust with the old reliable Lambert's Death to Lice. It knocks 'em stiff in a jiff. As one of the big successful poultrymen wrote us, "It is impossible to get along without your louse killer," so it is with every user. There's nothing so efficient.

Don't Experiment

Follow the example of the leaders—ask any successful poultryman which lice killer has been the standard for 30 years—which is acknowledged BEST. He will tell you to

Get Lambert's

OLD RELIABLE
DEATH
TO
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because he has found it always the BEST.

Don't expect to make your hens pay and permit lice to worry and annoy them. The lice will get the profit and often the hens and chicks, too. A few cents invested in Death to Lice will bring dollars in profit. Just the thing for layers, sitters, and exhibition stock. Will not injure eggs, chicks or hens or soil plumage. Get a 5 oz., 10c box at dealers to try (or send to us direct if he can't supply you). Other sizes 25c, 50c and \$1.00. Lambert's Latest copy of "POCKET BOOK OF POINTERS," a valuable book for poultry raisers. Mailed for 2c stamp.

KLEIN-LAMBERT CO.
601 TRADERS BLDG. CHICAGO

have more honey making material this season than they can take care of properly.

* * *

In answer to G. W. Hallway, Missouri: (1) There are large peach orchards in the vicinity of Rogers, Arkansas. Land can be bought for from \$50 to \$100 per acre.

(2) The Black Ben is at home in Missouri and Arkansas. As a barrel filler it is a wonderful apple. It is a great seller in the South in the winter, as it is large, beautiful and a good keeper.

(3) You will have to plant every third row to dewberry bushes in setting out McDonald blackberry bushes. The McDonald will not set fruit unless pollenized by the bloom of the dewberry.

(4) Stick to Moore's Early, Concord and Worden grapes and you will succeed.

(5) I cannot decide the question of what agreement you should make with your son for his services on the farm. I can say this, however: *Pay him well.* Better still, take him in as a partner. Don't do as the majority of farmers do—give the boy only his board and clothing. That is what is driving so many boys away from the farm.

(6) Montmorency cherry is the best of all.

* * *

We have four pairs of Grosbeaks nesting in our trees. How they do take the green peas! But they are entitled to good measure. Even if they did not destroy countless insects, their presence would entitle them to big pay at my hands. One of the females—I call her "Lady Grey"—takes much satisfaction in what she believes is fooling me. When I go down in the orchard, bordering the woods, where she has her nest, she flutters around me, and, as she supposes, leads me away from her nest. I imagine how she laughs when she tells her husband how she fooled the old man. When she seeks to lead me from her nest, I never allow her to be disappointed. I told her the other day to bring the whole family up into the garden and help themselves to the peas. And do you know, I believe she understood, for in less than an hour, she, her husband and four young ones were busy eating Little Marvel peas.

* * *

Our S. Villosa lilacs are now a grand sight. This variety is especially valuable, as it comes in bloom two weeks after all other lilacs are gone. The flower is light purple in bud, but pure white when open.

* * *

The arbutus, that very breath of spring, once was in the Chicago vicinity. People who loved it would not let it live. The lady slippers once colored the later days of spring. They are gone. The trillium is going. Even the hardy phlox and the delicate wild geranium, even violets, are disappearing in the hands of their deadly friends who will not be content with seeing them where they belong but must tear them out to carry a basketful of sad, wilted flowers home to be hopeless and faded aliens in surroundings where they can be only forlorn.

It is not sentimentalism to lament the brutality which destroys the wild flowers. If they were not worth while in the lives of human beings they would be safe. No one would molest them. The fact that they are destroyed proves that they ought to be protected.

Jens Jensen's suggestion to the board of education that two vacation days be added to the school term to give the children a chance to see the woods and fields needs another suggestion:

That the children be taught to respect what they see. It is a prevailing notion that the way to demonstrate an interest in the outdoors is to destroy its beauties. If people were in-

different to wild flowers the flowers would not be at the very edge of extinction.

About Chicago where people go in the greatest numbers the wild flowers are dying out because of the interest taken in them. They are dragged up by the roots. They are prevented from seeding. They disappear from places which they decorated to the pleasure of the very folk who destroyed them. If the school children are to be given two days as a country vacation it ought to be upon the understanding that the things they are given a vacation to see would be just as interesting for children twenty years from now to see.

If wild flowers can be protected from people who think they are worth while they will be safe.—Chicago Tribune.

The annual spring raid upon our wild flowers, vines, bushes and trees by school children, under direction usually of school teachers, is something which should be stopped by law. I live near the Iowa River and a large tract of timber land borders my home. These woods used to be full of dogwood, May apples and all the wild flowers and vines common to this section. All these "hangers of spring" have been destroyed by school children, in the presence and by permission of the teachers, who ought to be punished for their wanton destruction and for their lack of common sense.

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BEST IN QUALITY

Identify birds as far as you can distinguish colors. Made in Red, white, blue, green, black and yellow.

Mention variety when ordering.

SPECIAL BRAND—Single coil. Made of lighter material and have less lap than Economy brand. 25 for 25c; 50-50c; 100-85c; 250-\$2.00; 500-\$3.50, postpaid.

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Bands for Growing Birds—(two sizes, state age) 12 for 15c; 25-25c; 50-40c; 100-75c; 250-\$1.75; 500-\$3.25, postpaid.

Baby Chick Bands—25-20c; 50-35c; 100-50c; 250-\$1.25; 500-\$2.25, postpaid.

THE VICTOR BAND Large printed numbers, bright clear colors—Red, white, blue, green, yellow. Made of celluloid and aluminum. Adjustable. 12 for 35c; 25-65c; 50-\$1.25; 100-\$2.25; 200-\$4.00. Victor Sealed Band—12 for 40c; 25-75c; 50-\$1.50; 100-\$2.75. Pliers 60 cents.

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THE CAPITAL BAND Has raised figures. Adjustable. strong, smooth edges. 12-15c; 25-25c; 50-40c; 100-65c; 250-\$1.50; 500-\$2.75; 1000-\$5.25.

Poultry Cuts New designs, a complete line. Catalog Sent Free.

FAVORITE Poultry Punch, Price 25 cents.

CHAS. L. STILES

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Tycos INCUBATOR THERMOMETERS

90c mean extra chicks hatched—every time. Demand a Tycos with the incubator you buy. Equip your present machines with Tycos at your dealers or "Tested and guaranteed. Booklet" for postpaid from us. Incubator Thermometer Facts!—free. Taylor Instrument Companies 100 Ames St. Rochester, N.Y.

Setting Eggs

\$1.50

Per Setting

WARNECKE'S
BANNED MOUTH BLOCK

Baby Chicks

\$15.00

Per Hundred

M. H. WARNECKE
216 S. 10th Avenue MAYWOOD, ILL.

Scott's Red

KNOWN FROM COAST TO COAST
C. P. SCOTT
PEORIA, ILL.
ROUTE 36, BOX A

Questions and Answers

Conducted by Prince T. Woods, M.D.

Questions about poultry are answered in this department free for all readers of American Poultry Journal. Where answers are desired by mail, a stamp for reply is requested. Address all query letters to the managing editor, Dr. Prince T. Woods, Lock Box 4, Silver Lake, Mass.

Buying Hard Coal for Incubators.

Q. I am unable to obtain hard coal to run my 3,000-egg incubator and have written to both my county and state fuel administrators telling them of my handicap, but they have given me no satisfaction in the matter.

I would very much like to know where large hatcheries are getting their coal for incubation purposes and how and where I can get hard coal for next season's hatches.

Adaza, Iowa.

S. B. E.

A. We would suggest that you write to Dr. Garfield, U. S. Fuel Administration, Washington, D. C. State that you desire the coal for incubator operation and the amount needed. In December, 1917, the Fuel Administration promised:

"That if it is notified of requirements of chestnut coal in connection where such fuel is needed for operation of incubators and brooders in connection with the hatching and rearing of chickens, we will arrange to have such coal promptly supplied to the dealer in the community where it is needed. Arrangements should be made, however, to notify the Administration as early as possible of needs which may actually exist."

So far as we know that promise has never been withdrawn. Both the Dept. of Agriculture and Food Administration urge the hatching of chickens that they may be grown for food purposes. Hard coal is necessary for both hatching and brooding. At this time the Government is actively urging that coal stocks be put in promptly this summer so that transportation will be hampered as little as possible. If you present your case properly to the authorities we believe they will aid you in securing the supply required.

If you will write Herbert H. Knapp, president of the International Baby Chick Asso-

ciation, Tiro, Ohio, he may be able to assist you.

One-Piece Work Suit.

Q. Where can I buy a one-piece work suit made of overall material? I have seen such but not in the stores. Think it would be a fine thing for the poultryman.

A. Same can be had of most department stores, mail-order houses, and automobile supply dealers. If unable to find what you want, write to The H. D. Lec Mercantile Co., Trenton, N. J. (or Kansas City, Mo.), and ask about their "Union-alls." Be sure to mention that you were so advised by American Poultry Journal. This sort of work suit is the most convenient outfit for work about the poultry plant or motor car that we have yet found.

Bald Spot at Back of Head.

Q. What is troubling my fowls? They show back of comb a bald spot. Some small and some larger. It is not on any other part of body, but just back of comb. I thought it might be depluming mites and have applied vaseline, but without results. Poultry house is clean and free from vermin.

Marinette, Wis.

H. C. W.

A. Do not believe it is anything serious. Frequently it is due to feathers pulled by an active male bird during service. Anoint bald spots with vaseline and feathers will grow in again in due time.

Whole Corn for Chickens.

Q. (1) Will whole corn hurt young chickens? At what age would you begin feeding it?

A. (1) It will not injure them when they are large enough to eat it. We usually feed cracked corn until they reach about 2 1/2 to 3 pounds weight and then feed whole corn.

Q. (2) Would you advise me to buy ready-mixed scratch grain or to mix it myself?

A. (2) With small flocks it is usually more economical to use ready-mixed feeds. Large plants generally mix their own rations.

Q. (3) How many two-months-old chickens should be kept in a house 8x10 ft.?

A. (3) Fifty. Half that number when full grown.

Q. (4) I keep my brood coops in a colony house and the mother hen is confined. Is this all right?

Lake City, Iowa.

L. B.

A. (4) I keep my brood coops for weaned chicks? The hens in brood coops would be better off if coops were out of doors.

Enteritis.

Q. Chicken has watery diarrhoea, sits with head tipped backward, wings droop, droppings stick to feathers. Comb does not change color. Keep Leghorns mostly. Feed commercial mixtures. Breeding stock is healthy.

Branford, Conn.

P. J. B.

A. Trouble is probably enteritis. Commonly follows an attack of indigestion, particularly where chicks are kept on infected soil or are fed on spoiled or moldy feed. Prevent by growing chicks on new ground, moving broods to fresh soil often, feeding only wholesome food. Sweeten used soil by disinfection with air-slaked lime, deep plowing or spading, and cropping with some quick rank growing stuff.

Breeding Related Stock.

Q. Not long since I was much prejudiced against keeping chickens in town. I was very fortunate in getting hold of one dozen very choice White Leghorn pullets. Since then I purchased an excellent cockerel. He is a fine individual and comes from a hen who was a great layer. Consequently I have a fine bunch of pullets coming on.

What is line breeding? How closely can your male be related to the females in his flock? Should I breed this male next year to his own pullets? I do not want to part with this bird for another year unless necessary.

Dighton, Kans.

D. G.

A. We have fowls on our farm which have been closely inbred for more than nine generations. We cannot see that there have been



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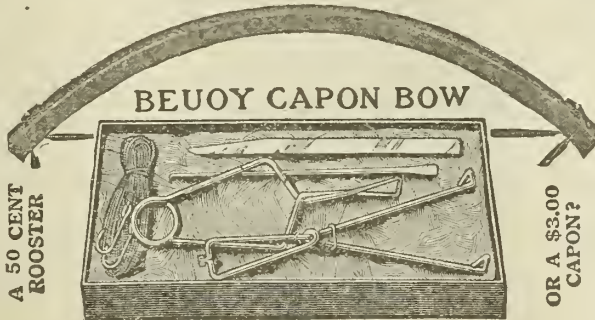
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100 chicks, either variety, \$15; 50, \$7.75; 25, \$4. Six-weeks old chicks, 100, \$9c each; 50, 70c each; less numbers, 75c each. Broilers, \$14 per 100; \$7.25 per 50; \$3.75 per 25. W. RHODES, DAKOTA, ILLINOIS

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Light Brahmas Stock after
Dark Cornish October 1
JOHN BLANCHARD COLUMBUS WIS.

anything but good results. The chief consideration is to have all breeders sound, vigorous and in best of health and to avoid mating birds having similar defects. Line breeding is simply carefully conducted inbreeding, mating the stock back to one particular sire or dam, so that its "blood" shall predominate in the progeny. We should continue the male with the best yearlings and a few of the best pullets of his get. We have mated a good male with his daughters, his granddaughters and his great-granddaughters, in direct line, with excellent results. Care must be taken to avoid mating similar physical defects. If birds are mature, well-conditioned, and possess sound constitutional vigor the relationship will only serve to intensify the strength of family type and quality. Such matings sometimes go wrong because of similar unseen defects in both male and female which are intensified in the progeny.

Swollen Hock Joints.

O. I have been a reader of your paper for four years and have always been interested in the Questions and Answers, which have been a great help. Have cured almost every curable disease in poultry, but now have a case which puzzles me. About a month ago my prize cock bird became lame, as if his feet were sore. He gradually got worse until he staggered around the yard as if dizzy, with wings extended. Gave him an injection of a remedy which did not help him. His vent is now inflamed as if he had vent gleet. Have been treating him for rheumatism, rubbing his joints with turpentine and sweet oil. He gets grain twice a day and a mash of table scraps. Can you suggest a remedy? I do not want to lose him. His joints have swollen and he seems to have a fever.

Ossing, N. Y. R. S.
A. Think the vent inflammation was caused by the irritating injection. Would put him on a scant ration of hard grain once a day and all the greens he will eat. Keep him out of doors where he can have fresh air and sunshine, a dry run and ample shade. Examine front of hock joints under feathers. You will probably find ulceration there. Wash well with soap and warm water, dry thoroughly and then rub in a little iodex. This can be had of your druggist. Dress joints again in two days. Do not handle the bird more than is absolutely necessary.

Danger in Spoiled Grain.

We have received a considerable number of letters from Central and Southern states reporting similar trouble affecting young chickens and sometimes adult fowls. Birds become droopy, comb is red; walks with staggering gait as if dizzy or unable to see well; head and neck sometimes drawn back on body; crop contents fluid and frothy, sometimes dark and sometimes yellowish; watery diarrhoea, either white or yellow streaked; discharge gums up fluffy or may paste up vent.

The complaints are so general and such a considerable percentage of the flocks are affected that we believe that the trouble is largely due to spoiled or musty grain. Feed wheat this season is uncommonly poor in quality. Much of the corn and corn meal is unfit for feeding. The unseasonable hot humid weather in May caused a good deal of grain spoilage and the slow and frequently checked transportation of freight has not helped matters any.

The best plan is to prevent digestive troubles by using care in selecting grain and feeds, avoiding spoiled, musty, moldy, heated, or acid grains and feeds. When first symptoms of indigestion, crop irritation, or looseness of bowels show in the flock, shut off the feed and make a careful investigation. Do not feed decidedly musty or moldy grain. Cook any doubtful grain or ground feed. Oats as a rule are in pretty good condition and should be fed liberally in warm weather. Greens should be supplied freely. Charcoal should be kept before the growing chicks and adult fowls. Barley meal and wheat middlings added to the mash will help correct simple diarrhoeas. Moving the flocks to new soil, which has not been used by poultry for several seasons, will often prevent serious intestinal troubles from occurring in the flock. As a rule we consider that it is a waste of time and money to attempt doctoring seriously sick chicks or fowls. If plenty of fresh air, clean quarters, new earth runs, and fasting for a few meals, followed by scant feeding on known-to-be wholesome food, will not bring them around all right, they are not likely to prove worth an attempt at saving.

This season has brought so many beginners into poultry keeping that reports of poultry ailments are more numerous than usual. The experienced poultryman, who breeds and feeds for health and knows how to keep his flocks comfortable, seldom has much trouble with diseases.

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Chicago, Indianapolis, Columbus and Milwaukee winners. Eggs half price. Write for mating list.
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Toe-Picking Among Chicks.

Q. I have 10 White Leghorn chicks about eight weeks old. A few weeks ago I noticed the other chickens picking at the toe of the smallest one. Upon examining I found the toe half gone and bleeding. I dipped toe in pine tar and put chick in a separate coop. In a few days the toe was hardened over and I put her back with the others. She was all right for a week and yesterday they started picking the same toe again. Can you tell me anything I can do to prevent same? These are the first chickens I ever had.
Merrick, Mass.

W. P. H.

A. Toe-picking and other forms of cannibalism are common among chicks, particularly when closely confined; if one chick becomes bloody or injured the others are quite certain to pick at it and to keep it up if they get a taste of blood. Small chicks generally pick at one another's toes and if one bleeds the trouble starts. Feeding plenty of greens and mashies containing fish meal or fine beef scrap and wet up moist and crumbly with skim-milk, helps to prevent trouble. Give the chicks a box containing sprouted oats to scratch over. Use a very little salt in their mash food. Make them scratch for a part of their chick food in a litter of cut clover or hay-mow chaff. You put the chick back with the flock before the toe had entirely healed and they very naturally picked at the scab.

Enlarged Liver.

Q. Can you tell me what is wrong with my hens? They sit around and if I touch them they act just as if they had been turned loose in the dark. They eat and do not lose flesh, but the last two days before they die the comb and face turn pale. If I pick them up slimy water runs out of the mouth. I have opened some after they died and found the liver about 4 or 5 times larger than natural size, but otherwise they seem all right. I have lost quite a few, and in one of them the liver was enclosed in a sack which seemed to contain all the blood in the body. Eggs were all clotted together. I feed fresh scrap from a restaurant. Get the scraps every day. Give a dry bran mash and oats and spelts and plenty of grit and clean water.
Redfield, So. Dak.

E. R. B.

A. The restaurant scraps are very rich food and you are overfeeding your birds. The enlarged livers are caused by forced feeding and lack of exercise. Hens with blood about the liver died from rupture of blood vessel in same. Probably all of your fowls are now overfat internally and have large livers, and they should be killed and marketed as meat before you lose any more of them. When starting with another flock, if you want eggs and not fattened table poultry, do not feed the restaurant waste so freely make the birds work for a ration of hard grain by scratching in deep litter.

Record Egg-Laying.

All previous world's records for individual egg laying by White Leghorns have been eclipsed in the Bendigo (Australia) single test competition, where 530 birds of various breeds have been under test for twelve months. The winner and new record holder is H. B. James White Leghorn pullet Lady Constant, her total being 332 eggs for the 365 days. A feature was the size of the eggs, which varied from 25 to 26 oz. per dozen. In the winter test (April, May, June and July) 115 eggs were laid in 122 days, establishing a new world's record, while 172 eggs were recorded in the first six months. During the test Lady Constant laid over 43-lb. weight of eggs, nearly eleven times her own weight. The previous world's record in competition was 315 eggs for the year, established at Bendigo by a South Australian bred bird last year.

J. E. Bradley's Black Orpington won in the heavy breeds' class, also establishing wonderful figures. Her year's tally was 326 eggs, 14 better than the previous world's record, established in New South Wales last year.

These performances are the more remarkable inasmuch as it has been a particularly bad year for egg laying.

Shipping Eggs in Car Lots.

The total damage to eggs transported in carload lots was reduced to less than 1 percent in tests conducted by the United States Department of Agriculture covering a period of more than two years, and in which the eggs were shipped on an average of 1,000 miles. The amount of damage sustained in marketing eggs in carload shipments, according to various local authorities, averages from 3 to 9 percent. The following good commercial methods of packing, storing, and handling

ing, eggs can be transported in carload lots with a total damage, including "checks," "dents" and "leakers," of less than 2 percent, according to Bulletin No. 664 recently issued by the department, which discusses the experiments and best methods of transporting eggs from the producer to the consumer.

War Time Rations.

A circular by J. G. Halpin, issued by the Wisconsin College of Agriculture, gives the following list of war-time poultry feeds:

WAR TIME POULTRY FEEDS.

Grain (Scratch Feed)—Corn, oats, barley, buckwheat. Take at least two from this list.

Mash—(1) Bran, (2) middlings, (3) gluten feed, (4) malt sprouts, (5) brewers' grains, (6) ground corn, (7) ground oats, (8) oil meal. Take Nos. 3 and 6 and as many more as you can secure.

Animal Feed—Skim-milk or buttermilk, ground fresh meat and bones, meat scrap, tankage, insects (when the hens are on free range in summer). Some kind of animal feed is essential to economical egg production.

Green Feed—Cabbages, mangels, sugar beets, carrots, sprouted oats, silage, in winter time. Green grass, vegetables, trimmings, etc., in summer. Clover and alfalfa chaff. Table scraps—Use all the waste material that the hens will eat. Cooked carrot peelings and such feeds are good. Green feed cheapens the ration and keeps the digestive tract in good condition.

Mineral Feed—The hen will not lay eggs until she has enough mineral to manufacture the shell. Oyster shell, lime rock grit, broken egg shells. Just as important as any part of the ration.

Charcoal—Keep before flock at all times. **Water**—Fresh and in abundance, before the flock at all times.

GOOD LAYING RATIONS

No. 1. Feed in deep litter—4 lbs. of corn and 1 lb. each of oats and barley. Feed light in the morning and heavy at night.

Feed in hopper—(all the time). A mixture made at the rate of 100 lbs. each of bran, middlings, ground corn, and gluten feed, 50 lbs. of meat scraps, and 2 lbs. salt.

Feed in trough—(three times a week). Same mixture of ground feed moistened with milk.

Green feed—Sprouted oats and mangels.

Grit Oyster Shell Charcoal Water
No. 2. Feed in deep litter—4 lbs. of corn and 1 lb. of barley. Feed light in the morning and heavy at night.

Feed in hopper—(all the time). Mash of equal parts bran, middlings, and cornmeal. Salt slightly.

Feed in trough—(at noon). Boiled oats. Feed as much as the hens will eat in 20 minutes. Add table scraps, cooked vegetables, cooked small potatoes, cooked potato skins, and such feeds.

Milk—Sour milk or buttermilk to drink.

Grit Oyster Shell Charcoal Green Feed

FEEDS FOR THE CHICKS.

The little chick must not be fed any hard feed until 48 hours after hatching. (However, the mother hen, if one is used, should be fed whole corn.) Give free access to skim-milk (fresh, soured or clabbered) or buttermilk as soon as they leave the nest or incubator. When the chicks are 48 hours old feed them in chaff, chopped hay or straw, or shavings.

YOUNG'S STRAIN

Single Comb White Leghorns

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Send 30 cents for sample

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Remember, it is not how many you hatch that counts, but how many you raise. A Queen costs but little more, and the extra chicks that live and grow soon pay the difference.



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Sensational Winners at Chicago Coliseum,

Grand Breeders — Half Price

A good chance to get the best cheap.

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Eggs, \$2.50 to \$5 per setting. Breeders half price.

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Eggs and Chicks shipped to reach you safely. Eggs, \$2 per 15, \$3 per 30, \$4 per 50, \$8 per 100. Chicks, prepaid, \$19 for 20, \$11 for 50, \$6 for 25. Circular free.

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Columbian Wyandottes

Some grand bargains in hens and cocks at sacrifice prices. H. A. D. LEGGETT & CO., 24 N. Nash Place, Burlington, Vermont.

Chick Feed—

Finely sifted cracked corn makes the best chick feed; add steelcut pin-head oats, cracked kafir, broken rice, and such feeds, if you can secure them, or use a good brand of commercial chick feed. (Feed morning, noon and night.)

Mashes—

Corn bread, corn and barley bread, or some other such feed should be fed as a mash.

Corn Bread:

Cornmeal 2 pounds
Eggs (infertile) 2

Mix with sour milk to make a stiff batter and add one teaspoonful of soda for each cup of milk used. Salt slightly. Bake in moderate oven for one hour.

Corn and Barley Bread:

Cornmeal 2 pounds
Barley middlings 1 pound
Eggs (infertile) 3

Mix according to the preceding directions.

One may also substitute wheat bran and middlings for the barley when they can be procured. The infertile eggs may be omitted and a little meat scrap or fish scrap added, or the eggs or meat may be omitted entirely if necessary. (Feed mid-forenoon and mid-afternoon.)

Or a mash may be substituted for corn bread.

Dry Mash—

If chicks have a good range dry mash may be left before them all of the time. If confined to a house or small yard, then allow them to have dry mash for only an hour or so toward night.

Mixture No. 1:

Ground corn 1 pound
Rolled oats 1 pound
Bran 1 pound
Middlings 1 pound
Gluten feed 1 pound

Mixture No. 2:

Ground corn 1 pound
Gluten feed 1 pound
Hominy feed 1 pound
Rolled oats 1 pound
Barley middlings ½ pound

For the first three weeks use a mash such as No. 1 or No. 2, or else use a good grade of commercial chick mash.

Animal Feed—

At the university we have raised good chicks on fine cracked corn, clover and buttermilk, and also on corn, clover, and meat or fish scrap, but more variety in the ration is desirable. The village poultry keeper may be able to furnish his chicks enough animal feed by frequently spading the yard and letting the chicks eat the worms, and by carefully feeding any meat or bones (broken in small pieces) from the table.

It is very important that animal feed form a part of the ration. When chicks have free range they can usually find bugs and insects so that they will make a fair growth, but buttermilk or freshly soured skimmilk may be fed to advantage even when chicks are on free range. Milk is best fed in earthenware fountains. Yarded chicks are frequently stunted because their ration lacks animal feed. If you cannot obtain fresh buttermilk or skimmilk and have more than a dozen chicks you will find that it will pay to secure condensed or dried milk, meat scrap or fish scrap. The buttermilk or fish scrap may be added to the meat dry mash so as to form about 8 to 10 per cent of the ration. Most of the chick mashes on the market have one of these forms of animal feed.

Green Feed—

The best chicks are grown when green stuff is the most tender. Encourage the chicks to eat large amounts of green stuff by supplying it in abundance. Keep the grass cut short or pastured down close so that it will be tender. If chicks are yarded, carry them all the weeds, waste lettuce leaves, lawn clippings, cut green clover, and other greens that you have.

Mineral Feeds—

Chicks make very rapid growth and must have plenty of mineral matter in order to make that growth economically. Give free access to fine or chick size lime rock grit, or to finely crushed oyster shells (if you have old hens screen out the fine part for the chicks and give the coarse to the hens.) Chick size dry bone is a very valuable addition when chicks are yarded. Give free access to charcoal at all times.

Water—

If chicks have free access to freshly soured skimmilk or buttermilk they do not need water for the first four to six weeks. After that, fresh, clean water should be before the chicks at all times.

Table Scraps—

Use all the kitchen and table waste possible. Chicks will relish many things that formerly went into the garbage can. Even the experimental war bread will not be entirely wasted if it is fed to a bunch of husky chicks!

Men of U. S. Department of Agriculture Hold Meetings.

A meeting of the poultrymen of the U. S. Department of Agriculture was held in Kansas City, June 1 to 4, 1918, under the leadership of Harry M. Lamon, in charge of the poultry work of the Animal Husbandry Division, Bureau of Animal Industry. At this meeting an urgent appeal was made to the American people to increase the production of poultry and eggs. The following plans of action were adopted and are urged upon the people in order to accomplish this purpose:

1. Keep better poultry. Standard-bred poultry improves quality and increases production.
2. Select healthy, vigorous breeders to produce strong chicks.
3. Hatch early to produce fall and winter layers.
4. Preserve eggs when cheap for home use.
5. Produce infertile eggs, except for hatching.
6. Cull the flocks and eliminate unprofitable producers.
7. Keep a small back yard flock to supply the family table.
8. Grow as much of your poultry feed as possible.
9. Eat more poultry and eggs and conserve the meat supply.

Those in attendance at the Kansas City meeting at which the above definite plans were outlined, were: Harry M. Lamon, Washington, D. C.; Robt. R. Slocum, Washington, D. C.; Jos. W. Kingborne, Washington, D. C.; R. H. Wilkins, Washington, D. C.; C. H. Cross, Washington, D. C.; Miss Minnie Harbaugh, Washington, D. C., and the following district men: Jno. D. Jaquins, in charge of District No. 2, headquarters Chicago, comprising the states of Illinois, Indiana, Wisconsin, Michigan and Ohio; Geo. W. Hackett, in charge of District No. 3, headquarters Kansas City, Mo., comprising the states of Kansas, Missouri, Nebraska, Iowa, South Dakota and Minnesota; R. C. Blake, in charge of District No. 4, headquarters Oklahoma City, Okla., comprising the states of Oklahoma, Arkansas, Texas, Louisiana, Mississippi, Alabama and Florida; A. A. Peters, in charge of District No. 5, headquarters Los Angeles, Cal., comprising the states of New Mexico, Arizona, California, Nevada, Oregon and Washington. At the close of the meetings in Kansas City, the above party proceeded to Omaha, Neb., where daily sessions were held on June 5 and 6, with the state men from District No. 3, the plans of action being set forth in further detail and plans of organization discussed in connection with the state work.

From Omaha the poultrymen visited Chicago, and daily sessions held at the Great Northern Hotel, June 7 and 8, in connection with the state men from District No. 2. The attendance at the Chicago meetings was large and in addition to the Government men a large representation was present from the various state agricultural colleges comprising the second district.

Additional meetings are to be held in New Orleans of state men of the fourth district, and at Los Angeles of state men from the fifth district.

These meetings have been of the utmost importance to the poultry industry of the United States, in view of the fact

that this is the first time that any definite plan of action has ever been presented to the poultry interest of this country to increase poultry production along definite lines, and thus stimulate interest in the emergency poultry campaign of the U. S. Department of Agriculture and enlist the services of the American hen in all parts of the United States to help win the war.

AUSTRALIA LEADS IN HIGH EGG RECORDS.

495 Birds in Competition Average 203 Eggs Per Bird.—The Bendigo Independent's "Single Test Competition" Sets a Lead to the World.—Record of 332 Eggs for White Leghorns and 312 Eggs for Buff Orpingtons.

By E. J. HARDY, Northcote, Victoria, Australia.

WHEN the Bendigo Independent newspaper initiated in Victoria the single testing of the hen, to prove her individual worth, they did so to help foster the industry. On Sunday, March 31, 1918, the second test was concluded, with the world record scores to the leaders, and an all round improvement in the scores of the other birds. Indiscriminate breeding did fairly well for the industry, but now that single testing has come to stay, breeding must be carried on on definite lines, which will certainly be for the betterment of the industry as a whole. The fight is for eggs, and these can only be secured in large numbers from carefully bred stock. To breed accurately, one must know the ancestors of each bird, and to arrive at that most necessary data the parents must be tested and then later they must be mated to the sons of tested stock—a pedigree all along the line is what is required. As the Babcock test improved the dairy herd, so must single testing place the important primary industry of poultry on a sound basis and lift it high as a genuine structure.

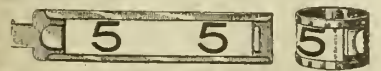
Last year's test concluded with new world's records at 315 and 313 for White Leghorns and 312 for Black Orpingtons. The test the Bendigo Independent just concluded gave the scores:

107	H. B. James, W. Leghorns.....	332
123	Gedye Bros., W. Leghorns.....	330
111	Marville P. F., B. Orpingtons.....	326
110	Marville P. F., B. Orpingtons.....	319
79	G. G. Dunn, B. Orpingtons.....	312
186	D. J. Robertson, B. Orpingtons.....	312
183	D. J. Robertson, W. Leghorns.....	304
171	K. Courtenay, Faverolle.....	295

When the breeding of each of these birds is traced, it can be seen that they are the result of single testing, and in

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view of that, it is wrong to suggest that they are fluke scores. Then, further, the birds looked layers. While some men sent birds to win, others sent them solely to have them single tested, and by the results, altho they did not win, they are well satisfied. Of them, one cannot write much, for the value of the bird can only be estimated by the owners; suffice it to say there are scores of breeders more than pleased with the work their birds have done in this test. To the general public the birds which did well have a special interest and for their benefit the monthly laying of each of the leaders is here detailed:

	107	123	111	110	79	186	185	171	
April	27	23	21	29	26	16	16	20	
May	29	26	24	26	26	30	28	29	
June	28	29	25	29	28	28	27	25	
July	31	31	28	31	30	30	27	29	
August	29	30	30	23	30	31	29	28	
September	28	29	28	26	27	29	26		
October	27	29	31	26	28	28	30	28	
November	28	28	29	27	26	28	27	26	
December	27	30	30	27	27	26	25	24	
January	29	29	28	26	26	29	26	23	
February	23	23	25	23	16	22	25	21	
March	26	23	26	24	23	15	15	16	

Total number of birds tested.....	495
Total number of eggs laid.....	100,860
Average per bird.....	203 3/4

	Average Per Bird	Low Score	High Score
233 White Leghorns.....	204	105	332
7 Brown Leghorns.....	191	151	265
1 Black Minorca.....	115	115	115
2 Sicilian Buttercups.....	199	199	199
156 Black Orpingtons.....	210 1/2	120	326
2 Buff Orpingtons.....	207	199	215
2 Buff Orpingtons.....	275 1/2	239	312
12 Barred P. Rocks.....	171 1/2	126	260
3 White P. Rocks.....	163	156	170
50 Rhode Island Reds.....	184 1/2	108	270
11 White Wyandottes.....	204 1/2	146	252
14 Silver Wyandottes.....	208 1/2	102	275
2 Faverolles.....	263	231	295

495
With such good scores, one's thoughts must turn to the feeding, and it is here that all the credit reflects to the workers at Kangaroo Flat. Bert Mitchell, the general superintendent, and his son, Roy, being those to whom all the credit is due. While the breeding and selection are done at the farms of the breeders, the feeding is done at Rosedale. At first the feeding was half pollard, half bran, and just a snack of oatmeal mixed with water to start with. Chopped lucerne and berseem clover were added most liberally. At evening the grain feeding was three parts wheat, half part of oats and half part of crushed maize thrown into a liter of creek sand and straw. This feeding was kept up for about three weeks, when the lucerne was gradually changed to rape, the water gave way to liver soup, and minced liver was sparingly introduced. The weather, at this time set in wintery, which necessitated more oats and maize, the proportions being three parts wheat, one part maize and one part oats. When the competition was about a month out, the severe weather checked many birds. These were specially fed, while the others that were doing well were left to themselves, or, in other words, "well was left alone." The special feeding consisted of more green stuff, more meat, little less bran and peameal, and minced onions raw. Gradually they came back, and at the beginning of July, all were on the same mash, which was made up of pollard 3 parts, bran 1 part, a good sprinkling of peameal, the oatmeal being continued, as were the onions. The green stuff (rape) was fed fully bulk for bulk and the minced liver increased to 1/2 oz. per bird, three times per week.

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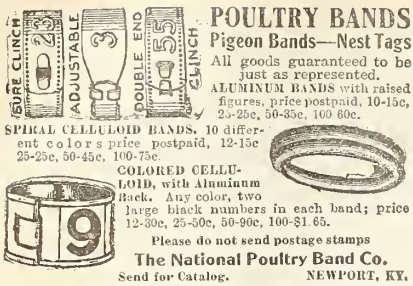
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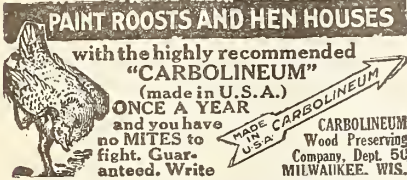


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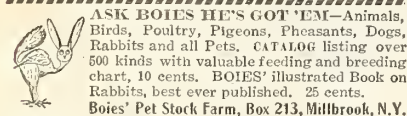
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This tasty mash was mixed with the warm liver soup and fed as soon after daybreak as possible, so that the birds after the long spell on the perch would not have to wait. At midday, to encourage the birds to keep moving while the day was cold, a little grain was thrown into the litter. The evening grain fed for the greater part of the winter was wheat 3 parts, maize 1½ parts, oats 1½ parts. As the lucerne was coming on early, it was inaugurated in August with the rape and bearseem. Until early spring this mash was hardly altered, excepting perhaps more attention was paid to onions and the meat was fed on 4 days each week. In October—spring time—the mash was pollard 4 parts, bran 1 part, the oatmeal increased and green stuff very extensive, freshly cut; succulent green feed being fed at the rate of 56 percent in the morning and a bit at noon. Then after the grain feeding, which was wheat 4 parts, maize 2 parts, oats 1 part, there was more green feed. Grain feeding was commenced at 4 p. m. and by 5 p. m. there was literally a dust storm at the farm, so vigorously were the birds working in the litter, which up to now had been renewed and the pens cleaned out 4 times. When the scratching seemed to have slackened down, more green feed was placed in the troughs and it was a unique sight to see the manner in which the birds ravenously ate it. As the birds now seemed to be in the heavy laying stride this mash was practically continued, slight alterations being made according to the weather, with at all times the main idea of getting eggs; consequently animal and vegetable proteins were never stinted, but the food was studied so that the general constitution of the bird would not be undermined. In fact, the desire was to get eggs and to keep the birds in good condition, that meant good dams immediately. That Manager Mitchell was decidedly successful in this has been borne out since the finish of the test, by the letters received, all the leading birds being immediately mated, as they showed no signs of molting and they were in that rosy meaty (not fatty) hard condition (as if well trained) that the careful breeder likes to see his breeders in. On an average about 3 ozs. of mash was fed each day, and grain 2 ozs., the cost scarcely being twopence or 4 cents per week per bird. While the quality of the mash from the middle of winter onward was fed alike to all, the quantity varied considerably. It was fed in a trough divided into three sections; the center one being for the charcoal and grit. The quantity of mash was governed by the birds' eagerness for it, being fed at each end of the trough and it was very noticeable that birds came to the same side each morning, consequently there was not a hint at a fight, and do not the results prove that the birds fed well? The charcoal kept always before the birds because of its medicinal properties, came from a kiln situated in the bush not far from the farm. The grit consisted of shells from Portarlington, oyster shell specially ground, and quartz grit from the local crushers.

One decided feature of the trial was the handling of the broodies. The heavy birds are naturally inclined to brood, but there were only three birds which brooded sufficiently to warrant them being called mothers. This does not mean that there were not many broodies, but it is mentioned to show that birds were

not seriously handicapped on account of broodiness. The method of combating close setting was that frequent tours of the pens were daily made, and every night another look was made for vacancies on the perches. The brooding bird was at once removed to a specially prepared grass run, where she had available every comfort, the old style of providing roughly-made, bottomless coops being discarded. Next morning the birds were given a big feed of pollard two parts, bran two parts, meat 1 oz. per bird, with a little oatmeal added. Chopped lucerne was also in the mash. This feeding formula reads altogether different from theory and the practice in other places. The results were also altogether different for the birds, instead of being off for weeks were only out days, in some cases hours. The reason for such liberal feeding was that the bird had to keep alive. The green stuff in the mash was supplemented by the lucerne growing thickly in the pens. Some people advocate that maize is fattening, but when fed with any quantity of green feed they become beneficial. Good results could have been obtained by feeding maize and no green stuff. It was noticed that the brooding birds craved the maize and the green stuff.

When the test started at the request of scores of leading breeders, with two birds in a pen—a heavy and a light breed—there were some critics who offered all kinds of obstacles. These were never in the way and even if they were they have been passed over (a glance at the scores will show this). It was thought there would be fights. Certainly there was some sparring for the first day, but when the mash was fed in the different troughs this concluded. Not one bird had to be removed on account of fighting, in fact there was only one—a mere chicken which might well have been kept at home to develop—that had a color of blood on its small un-grown comb. The color of the egg complaint has also been proved a bogey. This was really the only point that gave Mr. Mitchell any deep thought at the first and he, too, acted at times critically in this connection, but from April 1 to March 31 he did not have to challenge an egg. As often as possible visitors were taken round at collecting time, and not once did they (and they included competitors) suggest a reconsideration of any egg. Another "difficulty" mentioned was that the broodies in the heavies would be in the road of the lights, but the brooding feature as detailed certainly settled that. During the cold wet nights, which were very frequent, it was seen that the huddling together was a boon to the birds. When one was out broody it was noticed that the light breed, being on her own, was looking for her mate. It could have been argued that this close roosting would aid the spreading of lice. But the spreading of lice was not permitted. The floor of the pens were all inches deep in a nice clean sand, the sort that made the birds enjoy the dust bath. This litter was kept clean and deep, for if there is one thing that is not wanted at Rosedale it is the louse. All the roosts were tarred at first and then kept clean by the painting of a liquid disinfectant. The competition grounds being always open—from daylight to after dark to competitors and their friends—visitors were numerous, coming from all parts of the State, as well as from

South Australia, Queensland and New South Wales. That they were interested could be gathered from their expressions of appreciation, but what struck many of them most was that they had not to leave at feeding time. Several spoke well of this privilege. In this connection it can be mentioned that the main, in fact only, object of the running of the trial is to do things in the interests of the breeders, and this could not be done were details kept from them. The mixing of the mash and grains were watched and the quality of the feed in the bins was always easily seen. Then further, Mr. Mitchell did not refuse to answer questions, his attitude being that of an experienced man wishing to help others.

At 4 p. m. daily the work of collecting eggs was commenced. First, Roy Mitchell went round getting the eggs from the pens, then Bert Mitchell followed, entering the eggs in the day book. At night these were transferred to the egg ledger—a specially printed book with a space for every day's laying. This book was freely commented on by visitors in glowing terms. Messrs. Richardson, Robertson and Archer, experts of the Department of Agriculture, who were in Bendigo at the time of the Farmers' Convention, declaring in no uncertain terms of its cleanliness and easy manner of keeping accurately the daily work of each bird. Coming from such keen critics of the breeding of stock and the value of actually knowing the parents of animals and birds, this was an acceptable appreciation.

The test opened with mild autumn weather, which soon broke into wet, and all the winter there was much rain. This made things very miserable on the outside, but the birds, being under cover on the intensive system in pens 3x4 ft., built on well drained land, they did not feel the effect of the rain. When the rain came in flooding downpours, as it did at times, special care was taken to see that the water in the drains was kept on the move. The spring was very natural and it was then that the sequences were made. Summer broke fairly early, but except for three or four hot weeks, which fortunately were not consecutive, the summer was decidedly in favor of egg laying and only three birds died from heat.

The Fifth Contest.

The fifth Arkansas State Egg Laying Contest will commence November 1, 1918. The rules and regulations to govern this contest will be mailed out with the June report.

Before drawing up the rules and regulations for the fifth contest in final form, we wish to announce to the poultry breeders of the state that we welcome suggestions. We wish to make each succeeding contest better than the preceding one. We therefore ask your co-operation. Drop us a line if you have any new ideas which might make the contest mean more to Arkansas poultry raisers. Martin Nelson, Dean and Director Arkansas Agr'l Expr. Station, Fayetteville, Ark.

Breaks Record for Hauling Eggs.

The first commercial truck load of eggs from Vineland and Millville, N. J., into New York City—about 140 miles—arrived recently with not one egg broken. Delivery from the shipper to the wholesaler was made in 15 hours, which is faster time than that made by express shipments and establishes a record for motor haul of eggs, according to the Bureau of Markets of the U. S. Department of Agriculture which arranged for the demonstration. The 5-ton truck carried 150 crates of eggs weighing nearly 4 tons, the rest of the load being made up of crated glass. It left Vineland at about 11 a. m. and arrived in the wholesale district of New York City at 2 o'clock the next morning.

National War Emergency Poultry Association.

The writer has been delegated by the National War Emergency Poultry Federation to prepare and give out the statement below. We earnestly solicit your co-operation in giving this truly patriotic movement the widest possible publicity.—W. T. Seibels.

At a meeting of the Advisory Council of the National War Emergency Poultry Federation held in Chicago, June 10-11, by-laws to govern the federation were completed and adopted, thus assuring a nation-wide and complete poultry organization during the war, which has been created for the purpose indicated by its name. This federation movement grows out of the big conference of poultry interests held in Chicago, March 29-30, reports of which were widely circulated.

Officers of the federation have been chosen to serve until the July meeting of the Advisory Council, which will be

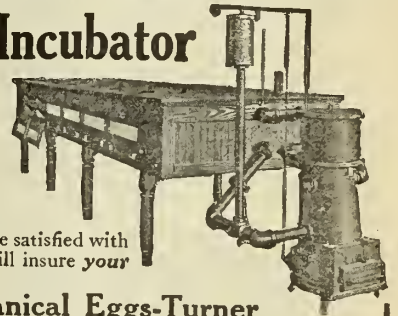
held in Chicago, beginning the third Wednesday, at which time there will be at least a two-day session, with an interesting program bearing on the work already in hand and to follow. Preparation of this program is under direction of Prof. Jas. E. Rice, Ithaca, N. Y., who expects to have his old friend, Dr. McCollum, the famous food research chemist, attend the meeting and deliver an address.

Temporary officers of the federation are: President, Reese V. Hicks, Brown's Mills, N. J.; vice-president, Prof. A. G. Philips, Lafayette, Ind.; secretary, Prof. H. N. Lewis, New Brunswick, N. J.; treasurer, S. E. Edwards, Chicago. Permanent officers will be elected and the organization will be completed and greatly extended at the July meeting.

The plan of the federation contemplates taking in all national and state organizations having to do with the production or distribution of poultry pro-

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(Signed) C. H. BURGESS, Assoc. Prof. of Poultry Husbandry.

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Jessie F. Gordon Box 535 Spring Valley, Minn.

ducts and supplies, and, as the name implies, the federation will be an organization of organizations—probably a hundred or more. But the by-laws are framed on such broad and liberal lines that any individual may become a member thru his local, state or national organization. A strong effort will be made to enlist the support of every person, firm and corporation having to do with poultry, poultry products and supplies. Already thousands of producers in all parts of the country are clamoring for a form of representation that will be truly national and which will be coupled up with the powerful backing of other organizations; together with what their own can give.

But it is distinctly understood that the federation is not intended to supplant any existing association, committee or other organization, but rather to co-operate with and to further the constructive and patriotic work being done individually and collectively in this enormous industry. The fact that the value of the commercial poultry and egg crop exceeds \$1,000,000,000 annually—one-twelfth the value of all agricultural products—and that government authorities now declare that the poultry industry is sure to contribute largely to the great cause of winning the war, make the need more apparent for all branches of the industry to get together and to pull together with Uncle Sam until *we do win the war!* It will be the chief purpose of the federation to cement our big industry into one common whole for this patriotic purpose. In short, the federation seeks to render a two-fold service: (1) to help our country and our Allies in every way possible, and (2) to promote and protect the poultry industry

during these trying war times and in the reconstruction period after the war, when it will be necessary to restock Europe and practically all the balance of the civilized world with poultry for commercial and breeding purposes.

The July meeting will be a rousing get-together affair—a grand rally of big-hearted and big-minded men and women. The program is bound to give a boost to the constructive work already planned and still more to be outlined later. Further information may be had by addressing Secretary Lewis.

Government Jobs Open for Qualified Men.

The United States Civil Service Commission announces that the Department of Agriculture is in urgent need of assistants in direct marketing, at entrance salaries ranging from \$1,200 to \$1,800 a year, and assistants in white-pine blister-rust eradication, at entrance salaries ranging from \$1,200 to \$1,440 a year. These positions are open to men only. The duties of assistants in direct marketing are to assist in securing information relative to quantity, quality, preparation, cost of marketing, and movement of farm products being marketed by parcel post or other medium of marketing direct from producer to consumer, and in disseminating information. The duties of assistants in white-pine blister-rust eradication are scouting for white-pine blister-rust, directing squads of men on blister-rust eradication, and in some cases conducting, under supervision, investigations of methods of eradication of this disease. For both positions certain specifications are made as to education and experience. Applicants will not be required to report at any place for scholastic tests, but will be rated upon their education, training, and experience, as shown by their applications and corroborative evidence and upon these submitted with the applications. Full information and application blanks may be obtained by addressing the United States Civil Service Commission, Washington, D. C., or the secretary of the board of U. S. civil service examiners at Boston, New York, Philadelphia, Atlanta, Cincinnati, Chicago, St. Paul, St. Louis, New Orleans, Seattle, or San Francisco.

A Poultry Venture on a Small Scale.

The desire for eggs fit to eat started my back-yard poultry plant, and now I am glad to say to anyone that it is a great help toward overcoming the present high cost of living.

We first embarked in the poultry business with 10 hens (Barred Rocks), pure bred, but not show birds. These hens started their laying career on January 15, 1917. In one year they furnished 1,800 eggs at nearly \$100 profit.

They were housed in a good, warm house, never given free range, always confined to a 20 by 30 ft. inclosure. Were not forced by feeding—just ordinary care, free from vermin, an abundance of clean, fresh drinking water and practical feeding. Result—eggs, and lots of them. We sold 1,200 of the eggs at 2c and 3c above the market price and incubated the other 600; from the 600 we hatched and raised 276 chicks. We sold 50 pullets and 100 cockerels at market price, receiving \$79.65 for them. One hundred hens later averaged \$1 each. The 1,200 eggs sold brought \$32.50. Total receipts, \$212.15. Total cost of all feed fed to hens and chickens amounted to \$119.20. Total profit from 10 hens, \$92.95, or over \$9 from each hen in one year. Besides, I still had 25 choicest cockerels, 5 of which were ordered for \$5 each.

Later I disposed of the remainder and my profit was well on toward the \$12 mark. My profit and business this year is larger, owing to number of chickens, and we hope on the 15th of next January to have our books make a better showing than before. I owe much of my success to publications of farming papers, as my sister is a country subscriber to several, which she sends me in exchange for different poultry magazines that I buy here in the city. Thus we keep well read on up-to-date methods, which means success in chicken raising.

Anyone with a back yard can raise chickens in the city as well as country; on a smaller scale, of course, but the profit makes up, for city people are willing, I find, to pay good prices for really fresh eggs or fowls and there is no expense of delivery, as they will call for them.

Chicago, Ill.

H. ARMSTRONG.



Great Bargain Sale Now On

Of the world-famous **"ARISTOCRAT"** BARRED ROCKS

THE GREATEST, MOST WONDERFUL BARGAINS EVER OFFERED by ANY BREEDER of BARRED ROCKS

ALL STOCK GUARANTEED

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TRAPNEST Record Cards

Size 5½x9 inches, printed on a good grade of strong cardboard, with eyelets for hanging up in the poultry house. Each card contains space for a daily record for one month for each individual hen in a pen of fifteen fowl.

Price, per doz., 50c; 3 doz. for \$1

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Stock Chicks Eggs

from Chicago Ciseum and Madison Square Garden Winners. Won at Madison Square Garden Show, 1917-18: 1st and 3rd Cock, 2nd, 3rd, 4th and 5th Hen, 1st and 2nd Cockerel, 1st, 2nd and 3rd Pullet and 1st Pen.

Imperial Poultry Farm R. F. D. 1 Elizabeth, N. J.

American Poultry Association Annual Convention.

The annual convention of the American Poultry Association will be held in Chicago during the second week of August, 1918. Headquarters will be at the Lexington Hotel, Michigan avenue and Twenty-second street. Every member of the association who is at all interested in poultry should plan to attend this meeting. It will be, without doubt, the most important meeting ever held by this old association. Matters of the most vital importance to Standardbred poultry will be up for discussion, and it is up to those interested to be on hand and take part in these discussions and assist the officers of the association in mapping out the proper steps to be taken in these troublous times.



DISEASES OF POULTRY

By D. V. Salmon. 252 pages; 72 illustrations. Every poultryman needs this book. The cause, symptoms, care and remedies for each disease fowls are subject to are given. Price 50c. American Poultry Journal Pub. Co. 523 Plymouth Court, Chicago, Illinois

FROM THE PACIFIC COAST

FEEDING HENS FOR EGG PRODUCTION.

By CHAS. WEEKS, Palo Alto, Cal.

THE very first essential in feeding for eggs is *heavy feeding*. Too many poultrymen feed only a maintenance ration instead of a producing ration. The laying hen should never become hungry, consequently she will never be overfed, for it is the hungry hen that overeats.

It takes a wonderful digestive machine to turn out an egg every two days in the year, for the egg is highly concentrated raw feeds and without an abundance of large variety of feeds the hen cannot produce.

An egg is a marvelous production of rich food content manufactured from the raw foods that the hen has before her. It behooves us to make sure the hen has every essential for making that egg and the hen knows much better than we what kind of food to select to produce that egg and only wants a chance to choose from a large enough variety to be able to supply all the constituents of the egg. If a single element is lacking in the feed, then egg production is not maximum. The hen may have everything before her with which to make an egg and lack only lime for the shell and is thus hindered. If there is one element lacking in the ration the hen will have to carry the egg over to another day in order to have that egg completed. If the egg is finished in due time the hen is compelled to eat more of one kind of food than is necessary in order to make up for the lacking parts, and thus part of the food is not wholly assimilated. When part of the food passes thru the hen unassimilated, as we sometimes see from the droppings, then the ration is not a balanced one and food is wasted. A wise feeder will keep as many varieties before the hen as possible, so that she may choose the constituents for the egg. The most successful egg farmers keep feed in hoppers before the hens all the time. That day is past when we measure feeds out to hens. If the grain is measured out at stated periods, the hen invariably eats more than is good for her to eat at one time.

Nature intended the crop of the hen to act as a receptacle into which the food for a day can be dumped as the hen in her wild state found it. Thus being slowly filled no ill effects resulted. Nature never intended that the crop of a hen should be filled in a few minutes, as is the case when hens are fed wet mash or grains at stated intervals.

A hungry hen will always fill the crop too full and if dry grains are eaten they swell and soon sour before they are taken into the gizzard and indigestion and bowel trouble result. Likewise, in feeding wet mash at stated periods, the hens will gorge and the crop will be packed, and before this bulk can get into the gizzard, fermentation sets in and sour crop is the result, with all its digestive troubles. The gizzard has not its normal work to do in the grinding of wet mash and consequently degenerates where wet mash are constantly fed. In many years experience in butchering hens we have discovered many truths in regard to feeding. The digestive organs of hens that have been fed wet mash are much more inclined to disease than those fed dry feeds. Small, wasted gizzards, ulcers, tumors and many inflammations arise from feeding wet mash. After wet mash have lain in the feed trough for a time it soon sours and trouble sets in. Bacterial conditions also arise in the feed troughs. Then the extra slavery of carting around wet mash each day is a burden to any poultryman.

DRY FEEDS MOST HEALTHFUL.

If the right kind of dry feeds are kept before poultry all the time, they will never overeat and digestive troubles will be lessened. With the right kind of feeds before them all the time they will never fill the crop too full and sour crops are eliminated and better assimilation takes place because the food is eaten as nature intended.

In preparing dry mash, it is well to cater to the tastes of the hen. Hens do not like finely ground mash, nor will they eat them until starved to it. They always pick out the coarser particles first and leave the finer. This is a suggestion that we should not overlook. Middlings, shorts, flour, bran, or other finely ground grains are too fine and are not relished in the dry mash. This fact is easily determined by placing hoppers of different grades of mash before the hens. It will be found that no fine mash will be eaten as long as the coarser can be had.

Did you ever stand and watch hens try to gulp down finely ground mash as tho they were so many children being forced to take medicine?

Give the hen a chance to select what she likes.

FRESHLY GROUND GRAINS THE BEST.

As soon as the grain is broken it begins to deteriorate in food value. The longer grains have been ground the less the food value and less palatable. New-

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Growing Chicks .10	.20	.35	.60	1.50	2.50	
Bantams.....	.15	.25	.45	.75	1.75	3.00
Leghorns, etc..	.15	.25	.45	.80	1.85	3.25
Rocks, Reds, etc.	.15	.30	.50	.85	2.00	3.50
Asiatics, Turkeys .15	.30	.50	.90	2.15	3.75	
Turkey Toms... .20	.40	.55	1.00	2.25	4.00	

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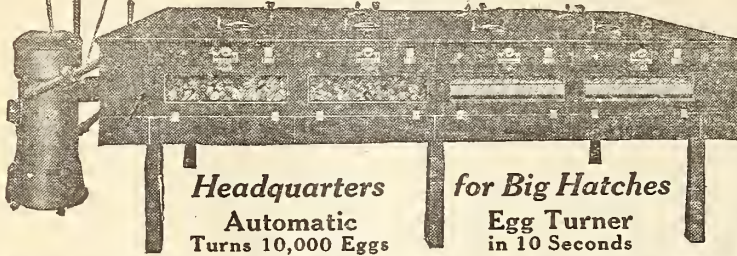
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"My Blue Hen hatches averaged well over 65%. My last try was with a section of pedigreed eggs. At the same time, I set a few settings under hens. The hens averaged 65%—the Blue Hen 85%, same eggs, same time. That is sufficient proof of the hatching ability of the Blue Hen. Beating the hen at her own game."

—D. J. Shaw, Bayville, N. J., April 27, 1918.



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Recent Reports.

"My Blue Hen incubator is running tip top. Got nearly 2400 chicks from 3200 eggs set. (75% hatch). It takes practically no time to operate the Blue Hen. Lost my help the other day, but can get along alone now." H. L. Whittenberger, South Vineland, N. J., April 5, 1918.

"In our estimation, the Blue Hen cannot be beat as a hatcher. We are taking off hatches every Tuesday that are astonishing. For instance, our hatch today was 1300 chicks from 1600 eggs set. (80%). Wonderful, you will agree."—McArthur Brothers, Lockport, N. Y., April 23, 1918.

"It is gratifying to report my success with the 1600 Blue Hen this season. Have been hatching 75 to 80% of all eggs set with practically no weak chicks; proven by my raising 95 to 98% of my hatches. It is a marvel as to regulation, ventilation, minimum amount of labor required and cost of operation."—W. E. Miller, Cadiz, Ohio, May 20, 1918.

ly ground grain is much more palatable. For best results dry mashes should be made from freshly ground grains. Then these grains should be coarsely ground, for hens naturally like the larger particles and the finer it is ground the quicker it deteriorates. I would have no grains ground into a flour. I would not have wheat and corn broken any finer than we usually make it for chick feeds and then you can be sure it will be relished and eaten clean. Ready mixed dry mashes that are mixed months in advance are the most useless of poultry feeds. The food value deteriorates and the palatability is much lessened and, besides, that mixed with beef scrap becomes more or less rancid until ptomain poisoning oftentimes happens. I think there is more trouble from dry mashes that have been mixed for a long period than from any other cause, for the hens do not like them. They are the least savory. Grind some fresh feed and see how the hens go for it. I would prefer grains ground not more than three weeks. The dry feed hoppers can be filled once in three or four weeks from new grindings. The fresher the better. Nature placed a hull around the grain kernel to preserve it and as soon as that is broken oxidation sets in. The volatile parts escape and it is less savory and the appetite is a good indicator of food values.

Each poultryman can have his own grinder and thus be able to have newly ground feeds at any time. Better still, each community of poultrymen could have its own warehouse for poultry supplies and have its own grinder and mixer. It is obvious that the poor quality of grains go to make up the so-called poultry feeds that are ready mixed. By grinding your own grains, good quality is assured. A community of poultrymen organized in a way to buy grain in quantity and mix their own feed are in a position to get maximum results. In my neighborhood, we have organized a warehouse association and will build our own warehouse and install a grinder and mixer. Any person in the association can have freshly ground grains in the dry mash at all times.

This will insure a better quality of feed at a minimum cost.

COMPOSITION OF GOOD DRY MASH.

The dry mash that has given me best results, after fourteen years experimenting, is as follows:

Four parts medium cracked wheat.
One part medium cracked corn (Indian corn or maize.).

One part good quality dried beef scrap.
One part soy bean meal (coarse ground).

One-fourth part oil cake meal (linseed).

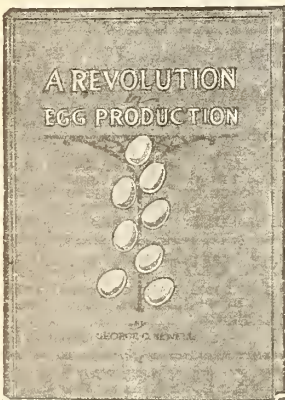
One-fourth part charcoal.

The hens relish this mixture and will eat it up clean and will eat almost the same proportion as of the mixed grains if kept before them. This mixture will feed down any good dry feed hopper, without clogging or caking. It is essential to have a good pattern hopper for dry feed, for it saves much labor and serves the hens.

I have little use for bran. The little food value that it contains is obtained at tremendous exertion of the digestive organs. The hull of any kernel is made for the protection of the inside contents and not for nourishment. In oats and barley the husk hull serves almost the

In Nearly Every Poultry Journal

ately, appear reports of people who have tried out George G. Newell's plan of furnishing artificial light to poultry on short, dark days to increase egg production. *They all say it works.* Now is the time to get ready to



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same purpose as the bran hull in wheat, for when that is removed the grain has scarcely any other covering. I have long ago learned that it is not wise to feed oats or barley with the hulls left on. The irritation caused by so much tough hull causes endless losses. Remove the hull from oats and barley and these grains make a very good feed in the grain mixture. Whole wheat ground gives as much bran as the organs can handle.

GRAIN MIXTURES.

A safe grain mixture is that composed of three parts whole wheat and one part Egyptian corn. If hulled oats and barley are added to this in same proportions as Egyptian corn it will add variety. I get better results to keep this grain than as the dry mash. My hopper has two compartments of equal size and one is filled with this grain mixture and the other with the above dry mash. I never, under any circumstances, throw the grain on the floor, for the hens will eat more or less filth and kick up a dust which is much worse than can be offset by any exercise.

GREEN FEEDS ABSOLUTELY NECESSARY.

I have written so much and so often on green feed for poultry that this may seem a repetition to my readers, but the truth is so important that I wish continual suggestion to convert all.

You may have every condition for hens and if you lack green feed you will not make them pay. It is an impossibility and the greater the variety of green feed the better the results. It takes fertile soil and plenty of water to grow good green feeds. Slow growing greens become bitter and tough and have not the food value and are not palatable. Greens need to be grown quickly and to grow them quickly requires a rich garden, loam soil, well watered. A poultry ranch without rich garden soil and plenty of cheap irrigating water is handicapped here in California.

The three best green feeds are kale, mangel wurzel beets and alfalfa. If your soil is rich and well watered you can pick a crop of kale leaves and beet tops every three weeks during the warm months. Alfalfa, to be best relished, should be also cut every three and not over four weeks, but to do this it must have plenty of poultry manure and water. If you have these three green feeds before the hens as many months in the year as possible, or from May to December, then you can rest that hens will pay. From December to May we use the root of the beet and whatever kale is left over at that time and manage to have a crop of green barley come on in the alfalfa patch for the winter. Barley sown in September or October and cultivated in with a fine alfalfa cultivator will make several crops during the winter. Cabbage is also a fine crop to grow in the fall for winter feed. It should be put in in August or September.

Rape is another good winter crop and can be mowed with the scythe several times. Barley, beets, cabbage and rape for winter, and kale, beet tops and alfalfa for summer. These green feeds save hens, save feeds, cause better assimilation and produce more eggs.

I am no book farmer and if you care to visit my ranch here at Palo Alto you will see this system of feeding carried out day after day.



Feed That Makes 'Em Lay Double the Food Value of Meat Scraps

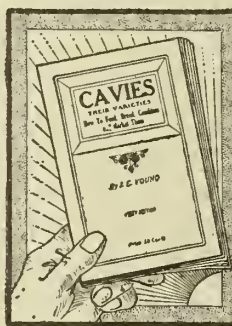
Realizing the importance of the right feed to keep up egg-production we experimented on this new product until we are convinced that it is right. We know that a valuable poultry food has hitherto been overlooked. Here, in the new

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Those are the big questions. Be able to answer them by keeping accurate records in our new, simple,

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This book contains space to keep a detailed daily record for one year of Eggs Laid, Value of Stock Sold, Eggs Sold, Eggs and Stock Used for Table, Expenses for Labor, Feed and Miscellaneous. With the aid of this book you can tell where your leaks are, where the profits come from, and it will serve as a guide to making your business more profitable. Printed on good quality writing paper suitable for ink. **Price 25 cents.**

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Chicks from 200 to 230 egg stock—25 chicks \$7.00, 50 for \$13.00, 100 for \$25.00, 1000 for \$200.00. From 230 to 264 egg stock, 25 chicks \$9.50, 50 for \$18.00, 100 for \$35.00, 1000 for \$275.00. Utility chicks, 25 for \$5.00, 50 for \$9.50, 100 for \$18.00, 1000 for \$160.00. We ship by Parcel Post the same week we receive your order. Safe arrival guaranteed.



We can fill all egg orders promptly, and we guarantee fertility and safe arrival. 230 to 264 egg stock: 15 eggs, \$3.50; 100 eggs, \$16.00; 1000 eggs, \$135.00. 200 to 230 egg stock: 15 eggs, \$2.50; 100 eggs, \$12.00; 1000 eggs, \$110.00. Utility matings: 15 eggs, \$2.00; 100 eggs, \$9.00; 1000 eggs, \$80.

Eight-Week-Old Pullets

One of the most satisfactory ways to start with Ferris Leghorns is to buy a pen of 8-week-old chicks. At this age the pullets weigh about 2 1/2-lb. and the cockerels about one pound. We guarantee safe arrival anywhere. We can ship any time you want them.

From 250 to 264 egg stock: 10 pullets and 1 cockerel, \$38.00, 100 pullets \$225.00. From 200 to 230 egg stock, 10 pullets and 1 cockerel \$23.00, 100 pullets \$175.00.

From good stock without records: 10 pullets and 1 cockerel, \$18.50; 100 pullets, \$125.00.

This FREE Catalog

tells all about Ferris White Leghorns and how we breed them for egg production; describes the eggs, chicks and 8-week-old stock quoted above; and the liberal guarantee under which we sell them. Write for it—a post card will do—and let us show you why you should breed Ferris trap-nested laying stock.



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JULY WORK FOR WAR-TIME STANDARD PRODUCTION.

100 Hens on Every Farm—100 Eggs from Every Hen.—Culling Out the Poor Layers and Backward Pullets Saves Feed, Room, Time and Labor, Gives More Eggs from Fewer Hens at Less Cost, With Greater Profit.

(Prepared by the Animal Husbandry Division, United States Department of Agriculture.)

IT IS time now to count the layers for next winter and to begin to give them the preferential treatment which will make them ready for good work in the season of high prices. There are two classes of birds to be considered—hens and pullets. For the purpose of selection for winter laying, each class may be divided into two groups. Hens of the small breeds may be given a higher age limit than those of the medium and large breeds. Late pullets should be culled much more severely than early pullets.

The culling of the hens is the most important work of the month and should have first attention. The culling of the pullets may be put off until they go into winter quarters if the poultry keeper is pressed for time and they are not overcrowded.

SELECTING LAYERS ACCORDING TO AGE.

The ordinary laying flock is made up at this season of yearlings and older hens in about equal numbers. The older hens are mostly two-year-olds, tho often there are a few hens three, four, or more years old which have been kept because they are favorites with the owner or he was in error about their age. The usual reason for keeping a hen after her second year is that she is known or supposed to have been an extra good layer. In the case of hens of small breeds, which do not tend to fatten easily after they have passed their prime, those considered likely layers may be kept for trial in a third laying season. But in the medium and large breeds the end of the second laying season should be the limit of age in the selection for future egg production. While occasionally a hen of this class is a profitable layer for three, four, or in extreme cases five years, the proportion that are profitable layers after their second laying season is so small that it is not good policy to reserve any after that age unless they are known to be exceptionally good breeders and are kept for that purpose. So in selection for laying all Leghorns, Minorcas, Anconas, Campines, and hens of that class that are over three years old; and all Plymouth Rocks, Wyandottes, Rhode Island Reds, Orpingtons, and hens of their class, and all Brahmas, Langshans, and other large hens that are over two years old are discarded for age without considering any other factor.

SEPARATION OF GOOD AND POOR LAYERS.

All hens over the age limit having been discarded, the problem is to select from the remainder those that may reasonably be expected to produce well for the remainder of this year and thru quite a long period after molting. The

points to be considered in judging hens for this purpose are:

- (1) How well they have laid.
- (2) Whether they are laying.
- (3) Their general physical condition and its relation to future egg production.

The owner of a small flock who knows the hens individually and watches them closely will usually know from daily observation that certain hens are good layers. It is entirely possible to know all the good layers in a small flock in this way. But as hens are usually kept, only the few good layers that are conspicuous for some other character are known as good layers. To identify the rest, some principle of selection based upon appearance or structure must be used. There are several such principles, each of which independently is serviceable for the purpose, tho not infallible. If judgments of a hen by these different principles agree as to her probable performance as a layer their common verdict may be taken as in all probability correct. When they disagree, the case becomes doubtful and the relative values of the several conclusions on the different points must be weighed according to circumstances which might affect them.

A point to keep in mind when culling the laying stock is that it is a very different process from either the selection of extreme high producers for a laying contest, or from efforts to judge accurately of the laying capacity of individual hens. The purpose of culling in ordinary flocks is to identify and discard hens of such poor laying capacity that they will not contribute their due proportion of the number of eggs needed to make the very moderate flock average of 100 eggs per hen in the ordinary conditions in which farm flocks and large flocks are kept.

Strictly, culling is the removal of the culls, or as they are sometimes called—the wastars. When these have been eliminated, those which remain are presumably profitable producers. Where there has not been culling thruout the season to discard hens apparently not in good laying condition, carefully culling at this time will usually leave not more than half of the yearling hens to be reserved for another year.

IDENTIFYING THE POOR LAYERS BY APPEARANCE.

A hen that at this season has smooth, bright plumage, and shanks and beak of a deep yellow, or a rosy flesh color, or fresh looking black or slate—as the case may be—thereby certifies that she has not been a profitable layer. Good condition at all these points shows that she has not laid enough to drain her system of the elements that give high color to the skin and a fine surface to the feathers.

A good layer that has been kept on moist, grassy land, or that has recently done duty hatching and rearing chicks, may have the shanks fresh looking, but will have rough plumage. If she has not yet molted, her plumage will be very rough. If she has molted early, as some hens do when running with chicks, her feathers, tho new, will still be short and rough. Such a hen is likely to lay well thru the fall and molt at the beginning of winter. It will pay to keep her as

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For Your Breeding Birds

Gives them extraordinary vitality to lay maximum number fertile eggs.

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Produces big, husky, lively chicks, free from white diarrhoea and other diseases.

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 Pacific Coast Distributors
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BOX C

BRONZE TURKEYS

MEYERSDALE, PA.

long as she lays, but the tendency to premature molt is not a desirable character and she should not be kept longer.

In the farm flock having good range there is usually no difficulty about distinguishing the poor layers by their good looks at this season. When hens have been kept on very dry land or in bare yards the plumage may be rough and dull and the shanks bleached in the poor layers, as well as in the good ones—if not to the same extent, at least as much that judgment on these points is made more doubtful. The condition and appearance of the comb are of some assistance in that case.

The comb of a healthy laying hen is much larger when she is laying than when she is not. It is bright red in color, suffused with blood, yet soft and flexible. The poor layer that under favorable conditions has nice plumage and skin usually has comb and wattles of a rather darker red, looking more as if the blood were somewhat congested in them. This is not so characteristic or so marked that much importance should be attached to a judgment based on the appearance of the comb alone.

IDENTIFYING THE POOR LAYER BY HANDLING.

A hen that is very fat at this season is a poor layer without question. One that is very thin and poor now may have laid well thru the winter and spring, but unless the poultry keeper is conscious that shortage of feed is to blame for her poor condition, it is safe to conclude that her best laying days are over.

The best way to deal with such hens is to feed them heavily to fit for market. Many of them will begin to lay when they regain flesh and lay well for a few weeks or months. They should be kept as long as they lay, feeding well all the time; but sold or killed as soon as they stop laying again. They are not the kind to keep over.

JUDGING LAYERS BY THE PELVIC BONES.

The width between the pelvic bones—when considered in connection with other points of structure and condition—is a fairly reliable index of marked differences in the laying capacity of fowls. Good width in this region is generally associated with sufficient breadth and depth of body to give the "double wedge shape," which is often called "the laying type."

To be a good layer, a hen must have body capacity for vigorous vital and digestive organs and also for a considerable number of eggs in process of formation. A little careful observation will enable one to judge marked differences in laying capacity, as these affect or are affected by structure of the body quite as well by the form of the bird as apparent to the eye as by actual measurement of the width by the pelvis. The latter, however, is of greater service in determining whether a hen is laying at the time of handling; for in the same hen the width is greater when she is laying than when she is not. This is a natural difference, the body being more distended when carrying eggs and the bones of the pelvis separating more when a hen is in that condition to give easy passage when the eggs are extruded.

GENERAL APPEARANCE AND CONDITION OF GOOD LAYERS.

A poultry keeper, who, following the instructions and suggestions given, has culled the poor and unpromising layers from the flock, can get a much better idea of the characteristics of good layers and of their appearances at this season from the hens that remain than from any verbal description or pictorial illustration. Yet it may assist him to have a brief statement of their conspicuous points, treating the flock as a unit—for it is not individual layers but flocks of good layers that will make the big increase in egg production.

The flock now consists of about half the original number. The hens are all rather shabby in plumage, with bleached shanks. They have bright, healthy-look-

ing combs and wattles, and bright, clear eyes. They are alert and energetic—out early in the morning, foraging and resting in the shade by turns thru the long hot summer days, and making the most of the long evenings—rarely going to roost while they can see to eat.

CULLING THE GROWING PULLETS.

A flock of growing pullets nearly always contains a considerable proportion of birds that are very much under size or in other ways poorly developed. Most poultry keepers are inclined to keep these until the flock is culled at maturity. It is much better to cull them out as soon as they are marked as conspicuously backward. This is the best policy at any time. In war time, with feed scarce, press of other more important work is the only excuse for letting them remain. They will never make a profit and the sooner they are eaten the less will be the loss on their account. Even where foraging is good it does not pay to keep them. It is much better to let the good thrifty pullets have all the feed.

Why Breeders Should Join the National White Wyandotte Club.

To those of us who are breeders of White Wyandottes it is not necessary to be told of the outstanding quality of these great birds, but there are thousands who do not possess any knowledge of them other than their existence.

White Wyandottes have such exceptional good merits that but little argument is required to convince one that they are not to be ignored.

The National White Wyandotte Club, H. J. Riley, Sec'y-Treas., Byran, O., is an organization of breeders of White Wyandottes that represents the highest standard of excellence of producers of this variety.

There are many breeders of White Wyandottes who are not members of the club. If the principles of the club and the advantages obtained thru being a member were explained to them in a straight-forward manner, eliminating all red tape, they would be only too glad to become affiliated with this organization.

The reasons which may be given why a producer of thorobred poultry should belong to the specialty club representing his respective breed are in no small numbers. Why all breeders of White Wyandottes should belong to the National White Wyandotte Club is what I want to impress upon you.

In your advertisement in the poultry magazines to say "Member National White Wyandotte Club" shows that you mean business and altho you conduct your business on the square this is proof of it.

At many of the shows thruout the various states the club offers handsome ribbons to members of the club, and to win one of these ribbons is a boost for your birds.

The annual dues are only \$1 and \$10 paid at one time makes you a life member. Send in your dollar and become a member of the club. The club needs you and you need the club.

If your neighbor is breeding White Wyandottes explain to him that it is to his advantage to get in line with you. Write to your state secretary. Let him know where you are and help him to advance the breed.

You are watching with eager eye those fast growing youngsters and will put

Shoemaker's Poultry Book and Almanac for 1918

Send for it NOW!



The book has about 200 pages, with many colored plates of fowls true to life. Tells all about chickens, their care, and diseases and remedies.

It also tells all about incubators, their prices and operation. All about poultry houses and how to build them. It's an encyclopedia of chickdom. You need it. Only 15 cents. Your money back if not satisfied.

EGGS AT HALF PRICE NOW

Send for circular—it contains prices that will interest you and everyone else, and it's free for the asking. There are thousands of the best breeders for the coming season hatched during August and September. C. C. SHOEMAKER, Box 605, FREEPORT, ILL.

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Save time and money. Provide the best possible conditions for fowls. Coops come ready to set up, built in complete sections that are quickly screwed together. Prices \$8 to \$35. Send for catalog.

CYCLE HATCHER COMPANY 1800 Lake Street Elmira, New York

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"Winning" Kind Buff Orpingtons

Eggs at reduced prices for balance of the season. Have all the chicks I need and eggs are hatching fine. Write, T. W. ROGERS, Box 4, Lamont, Ia

Pure Bred Day-Old Chix

Reds, Rocks, Wyandottes, Orpingtons, Anconas and Leghorns. Reduced prices. Write for catalog. WOLF HATCHING & BREEDING CO., Dept. B, Gibsonburg, O.

forth all possible effort to bring them into blue ribbon winners. These first prize birds, if backed by the National White Wyandotte Club, will be a boost for them and their owner.

Suggestions offered by the club may save you both money and time and at all times the organization will act to the best interest of its members.—Yours for better White Wyandottes, O. G. Bryte, Jr., Follansbee, W. Va., State Secretary National White Wyandotte Club.

Free Bulletins on Lice, Mites and Feeding.

Is your poultry showing a profit? Is it being handled at a loss? Are your houses and birds infested with lice and mites? Are you feeding a balanced ration? Is feed costing too much money? Are your young chicks not growing rapidly? If so, write today to T. E. Quisenberry, Box 206, Leavenworth, Kansas, for free copies of his new bulletins and circulars covering all of these subjects.—Adv.

Breaking Up Broody Hens.

In the spring of the year, after the hens have laid their first clutch of eggs, they usually become broody. This tendency to become broody varies with the breed and also with birds that have been bred for heavy egg production. The egg breeds rarely ever develop this characteristic to any marked degree, while the heavier breeds become broody a good many times during one season. Hens at this station have been known to become broody seven times during their first laying year.

If these broody hens are allowed to set around for a few days or a week before an effort is made to break them up, it oftentimes becomes a problem. Each time a hen becomes broody, the egg production ceases and thereby a loss results. Some hens, if broken up as soon as signs of broodiness is noticed, will go to laying again within a week or ten days, while others will not lay again for two or three weeks. All this time the hen must be fed, and no returns are realized for the feed consumed. It is the busy hen that is returning a profit, not the one that is always broody.

There are a great many ways recommended for breaking up broody hens, some of which are: Placing the broody hens in a yard with a number of vigorous male birds; making the hen exercise for her feed; placing an alarm clock alongside the hen, having the alarm set for some hour during the night; standing the hen in a tub of water over night, the water being just deep enough to touch the hen's

body; placing a patent arrangement on the hen's leg in order to keep her from setting; tying a string or cloth to the hen's tail to attract her attention, and many others. Some of these will work on some hens, but will be of no use in breaking up others. I have known hens to have been placed in a pen with a number of vigorous male birds and remain broody a month. Standing hens in water over night will not always work.

The best and quickest method of breaking up broody hens is to build a cage entirely of laths without any solid floor to it, hang this cage up in a tree or somewhere out of doors so the air can pass thru. You can break them from setting in a very few days by this method, for a hen will not set where she cannot generate heat, and the lath bottom permits a free circulation of air and keeps the hen cool. A similar coop to the one just mentioned can be built and placed in one end of the house, but is not as satisfactory as having it out in the open. It is not necessary to deprive the hens of food and water. Feed the hens all they will eat. Heavy feeding starts them back to laying at an early date. Starving them delays egg production.—S. R. Stout, Assistant in Poultry Husbandry, Fayetteville, Arkansas.

AMERICAN EGG LAYING CONTEST.

Methods of Preserving Eggs for Winter Use.—Will Enable You to Double Your Money in a Few Months.—Hens in the American Egg Laying Contest Making a Good Record.—Entries Coming in for Next Year.

By R. F. PALMER, Assistant, American School of Poultry Husbandry, Leavenworth, Kansas.

IT IS becoming more and more necessary for both the producer and consumer to hold eggs over from the season of plenty to the season of scarcity, from the season of low prices to the season of high prices. One egg next winter will be worth as much as two and perhaps as much as three eggs at the present time. There is every indication that eggs will be even higher next winter than they were last. For that reason it will pay the producer and the consumer to find some method of preserving eggs at present prices. Next to cold storage, we have had best success by preserving our eggs in water glass (sodium silicate). We are also trying out two or

three commercial preservatives, and the indications are that they will prove equally as satisfactory.

You should first prepare your preservative, even before you get the eggs. The water glass solution is made as follows: Use twelve times as much water as you do of the water glass; in other words, to each twelve gallons of water stir in one gallon of the water glass. If you have only a few eggs to preserve, use a smaller quantity, but in this proportion. The water should be boiled and then allowed to cool. When it is just luke warm, you then begin to stir in the water glass. You stir until it is thoroly mixed. You are now ready for the eggs.

As a container, we use earthen jars, candy buckets, kegs or half barrels. If you use wood, see that it is thoroly cleaned and odorless. The eggs should be clean and fresh. One bad egg may spoil the lot. Place them in the container with the small end of egg down. Then pour in enough of your solution to cover the top eggs about two inches deep. The following day, or just as the eggs are gathered, more eggs can be placed in the same container and more of the solution poured over to cover them. You can continue this process until your container is filled. See that the top layer of eggs is well covered with the solution and if there is any evaporation the container must be refilled. Cover it over with a heavy cloth and tie it on. Lay a clean board or weight over it to protect same. Place them in a cool place, cellar or basement, and they will keep for several months. White eggs preserve as well as brown eggs.

The eggs are good for any purpose, but if you wish to boil them, a small hole should be punctured in the large end of the egg before placing it in the water. In all instances, wash the eggs in water before using.

THE CONTEST.

Broodiness affected the records of some individuals during May, which, of course, affected the pen records also. A pen of White Leghorns from Washington broke our monthly record by laying a total of 144 eggs. White Leghorns, Black Leghorns, Anconas and Rhode Island Reds were the leaders in the order named in the Breeders' Contest for May. The record being made by the yearling hens is really surprising. These birds all made good records last year, but in spite of that fact the five highest pens of yearling hens laid from 133 to 138 eggs per pen for May. A number of hens made a perfect score of 31 eggs in the 31 days, and a few of the hens which have been among the high layers went broody and their lead is being cut down because of that fact.

It will be seen from the following table, which gives the records of the exhibition birds in the Breeders' Contest, that the Buff Leghorn pullets have made the highest average per bird for the seven months.

The five highest layers to date are:

No. 385	Silver Wyandotte, South Dakota.....	157	eggs
No. 273	White Orpington, Ohio.....	155	eggs
No. 351	R. I. White, Illinois.....	154	eggs
No. 102	White Leghorn, Missouri.....	154	eggs
No. 73	Buff Leghorn, Michigan.....	151	eggs

The five highest pens of five pullets each to date are:

No. 43	White Wyandottes, Illinois.....	660	eggs
No. 1	Black Leghorns, Georgia.....	630	eggs
No. 48	Light Sussex, Ohio.....	647	eggs
No. 27	White Orpingtons, Ohio.....	643	eggs
No. 7	Buff Leghorns, Michigan.....	632	eggs

The following table gives a complete summary of what the exhibition pullets accomplished during the month of May. Each of the following varieties are represented by fifteen pullets:

	May Leader	Best Pen for May	Av. Pul. 7 Months	High Layer 7 Months—Pullets	High Pen 7 Months—Pen
Black Leghorns	28 eggs	128 eggs	106.4 eggs	No. 16—137 eggs	No. 1—650 eggs
Brown Leghorns	26 eggs	123 eggs	96.8 eggs	No. 61—130 eggs	No. 6—537 eggs
Buff Leghorns	30 eggs	121 eggs	117.3 eggs	No. 73—151 eggs	No. 7—632 eggs
White Leghorns	30 eggs	142 eggs	112.0 eggs	No. 102—154 eggs	No. 12—628 eggs
Anconas	28 eggs	128 eggs	77.7 eggs	No. 131—134 eggs	No. 13—576 eggs
White Rocks	31 eggs	119 eggs	97.6 eggs	No. 183—133 eggs	No. 18—537 eggs
Buff Rocks	21 eggs	94 eggs	65.1 eggs	No. 214—129 eggs	No. 21—458 eggs
Barred Rocks	31 eggs	120 eggs	104.5 eggs	No. 236—127 eggs	No. 24—615 eggs
White Orpingtons	22 eggs	95 eggs	108.7 eggs	No. 273—155 eggs	No. 27—643 eggs
S. C. Reds	31 eggs	125 eggs	104.0 eggs	No. 281—147 eggs	No. 30—559 eggs
R. C. Reds	31 eggs	123 eggs	99.0 eggs	No. 334—136 eggs	No. 33—590 eggs
R. I. Whites	26 eggs	110 eggs	101.0 eggs	No. 351—154 eggs	No. 35—629 eggs
Silver Wyandottes	31 eggs	112 eggs	97.0 eggs	No. 385—157 eggs	No. 37—508 eggs
Colored Wyandottes	31 eggs	88 eggs	63.0 eggs	No. 402—118 eggs	No. 40—397 eggs
White Wyandottes	31 eggs	109 eggs	113.3 eggs	No. 446—149 eggs	No. 43—660 eggs
R. L. Sussex	27 eggs	100 eggs	106.9 eggs	No. 463—139 eggs	No. 48—647 eggs
Speckled Sussex	31 eggs	87 eggs	75.4 eggs	No. 491—140 eggs	No. 49—418 eggs

OUR NEXT CONTEST.

Entries are coming in for the next contest, which is to begin this fall. Several classes are already filled and if you contemplate making an entry you should write at once for rules and regulations. A winning here will mean a great deal to any poultry breeder at this time, when people are looking for birds of quality that can lay well. Have your best layers officially trapped.

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SPECIAL SALE OF 8 to 12 weeks old S. C. Anconas, from utility pen, select laying pen, or show pen headed by Sheppard's \$50 prize male. T. H. Holmes, River Forest, Ill. 7-8

NOW I AM OFFERING 10 weeks Ancona cockerels, Sheppard strain, at 75c each. G. Floyd Ward, Rossie, N. Y. 7

LARGE, DARK, SINGLE COMB Anconas—Sheppard's strain, three months old; \$1 each. Hickory Dell Farm, Glenbeulah, Wisconsin. 7

MID-SUMMER SALE of Anconas—Twenty-five yearling females and two cock birds. Need the room. Write The Bradleys, Britton, Michigan. 7

ANCONAS—SINGLE COMB. Cockerels, 8 weeks old, \$1.50 each. Cleve Fenerhaken, Ontarioville, Ill. 5-7

ANCONAS — BOTH COMBS. Cockerels, pullets, chicks and hatching eggs from fancy stock with egg records. Improve your strain without straining your purse. They'll please. Ralph Van Roalte, Holland, Mich. 5-7

SOUTHARD'S SNOWDROP ANCONAS—Silver cup winners, 1917-18 shows. Eggs, \$2 per 15, \$12 per 100, \$100 per 1,000; finest exhibition, \$5 per 15. Utility chix, 20c each. Frank Southard, Ledford, Ill. 2-7

SHEPPARD'S FAMOUS ANCONAS—The World's Best. See display ad page 631. Cecil Sheppard, Berea, Ohio. 11-16-17

PRITCHARD'S GENETIC Anconas—Bred with care. Frank P. Pritchard, Naturalist-Breeder, Fairmount, Ill., Route No. A2. 11-17-17

BABY CHICKS.

50,000 BABY CHICKS—Two and four weeks chicks. S. C. White, Brown Leghorns, Black Minorcas, Banded Rocks; hatching eggs. Catalog, stamp. Failing Poultry Farm, La Fargeville, N. Y. 3-7

BANTAMS.

BANTAM SPECIALIST—Buff, Black, Partridge Cochins, Light and Dark Brahmas. Ship on approval. Circular free. Geo. C. Salmon, Port Dickinson, N. Y., Route 4. 1-17-17

WANTED—ALL KINDS of Bantams and a few pairs of white doves. State age, price, etc. Adams Bird Store, 121 Mulberry St., Newark, N. J. 6-8

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LIGHT BRAHMAS—At Cleveland we won 1st and 2d cock, 1st hen, 1st cockerel, 1st pullet. Hatching eggs, \$3 and \$5 per setting. Pullets and cockerels, \$5, \$7.50 and \$10 each. Geo. C. Wright & Son, 2335 Riverside Road, Lakewood, O. 5-18-17

LIGHT BRAHMAS—Stock and eggs reasonable. Contents of breeding pens at bargain prices after June 15th. All stock trap-nested and pedigreed. Putnam & Sons, Harvard, Illinois. 6-8

"MAMMOTH" LIGHT BRAHMAS—Winners everywhere, including Chicago. Bargains in breeders. Eggs at half price now. George Layman, Greenville, Ill. 6-8

BUTTERCUPS.

GOLD COIN BUTTERCUPS—See page 638. O. B. Disenroth, Lawrence, Mich. 1-18-17

CORNISH

HAVING DECIDED TO discontinue raising poultry for a while, I offer all my Dark and White Cornish hens at \$3 each. Order direct from this ad. Satisfaction guaranteed. W. B. Grinyer, Eleroy, Illinois. 7

DORKINGS

EGGS AT HALF PRICE remainder of season; \$2 per 13, \$3.50 per 25. From Westfall's champion Silver Gray Dorkings. No reserve. More first prizes, silver cups and specials at New York, Boston and Buffalo than all competitors combined. These are the chicks that grow two pounds at two months. A few choice birds for sale. No baby chicks. Watson Westfall, Sayre, Pa. 2-17-17

HAMBURGS

PRIZE-WINNING SILVER Spangled Hamburgs. Stock for sale. Write for prices. Chriss King, Boscobel, Wis. 7-9

SILVER SPANGLED HAMBURGS, Black Diamond strain. Highest honors at Madison Square and leading shows of America. Eggs, \$3.00 and \$5.00 per 15. If you want the best and birds that can win in any competition, you should order stock or eggs from Will L. Clark, Sullivan, Ohio. 3-16-17

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WHITE LANGSHANS of quality—A bargain in breeding stock and eggs. Alonzo Tyner, Greenfield, Ind. 6-8

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LAKENVELDERS—EVERLASTING layers. Supremely beautiful. State wants. Hermitage Farm, Millersburg, Ohio. 7

S. C. WHITE LEGHORNS

TOM BARRON WHITE Leghorn cockerels, 8 and 12 weeks old, \$1 and \$1.50 respectively. Robt. M. Stroud, Hastings, Ia. 7-9

SINGLE COMB WHITE Leghorn pullets, hens and cockerels. Catalog, stamp. Failing Poultry Farm, La Fargeville, N. Y. 7-9

FOR SALE—1,800 S. C. W. Leghorn hens, select stock. Must make room for young stock. Universal Poultry Farm, Monticello, Ill. 7-9

S. C. WHITE Leghorn cockerels, 4 months old, \$2 and \$3. J. A. Pfister, 528 N. 9th Street, Sheboygan, Wisconsin. 7

SPECIAL THIRTY-DAY SALE—Barron White Leghorns, "The Big Kind." Pairs, \$2.50 up; trios, \$3.50 up; pens, \$5.50 up. Cockerels, hens, pullets. L. W. Ranker, Box A, Tiffin, Ohio. 7

POUND PULLETS AND YEARLING hens for sale. Single Comb White Leghorns. Choice stock of the best laying strains. Circular. Harry F. Palmer, Middleport, N. Y. 7

SINGLE COMB WHITE LEGHORNS—Several hundred yearling hens and April hatched pullets, reasonable. Satisfaction guaranteed. Miller Poultry Farm, Box 7, Lancaster, Missouri. 7 9

EGGS, CHIX, STOCK reduced, from high-bred White Leghorns. Instructive circular. Dr. A. Prudhomme, Thurmont, Md. 6-8

S. C. WHITE LEGHORNS—Smith and Hering strains. Hatching eggs, \$6 per 100. Baby chicks, \$14 per 100. Four and six weeks old chicks. Write for circular. Breezy Hill Poultry Farm, Mokena, Ill. 5-7

FOR SALE—100 Single Comb White Leghorn yearling hens at \$1.25 each. Highline Poultry Farm, Pisgah, Iowa. 5-7

S. C. W. LEGHORN cockerels—Barron strain. Early hatched, from 275 to 283-egg males; \$1 each, 6 for \$5. Thos. M. Keller, Dongola, Ill. 6-7

S. C. BROWN LEGHORNS

SINGLE COMB BROWN Leghorn pullets, hens and cockerels. Catalog, stamp. Failing Poultry Farm, La Fargeville, N. Y. 7-9

PULLETS, COCKERELS—Hen-hatched, three months old, \$1 each, \$11 dozen. Best laying hens, \$1.25 each. Bert Pennington, Cisne, Ill., R. 6. 7

S. C. BUFF LEGHORNS

DR. HEASLEY'S FAMOUS Egg Basket Strain of winter laying Buff Leghorns. Records up to 283. Reduced price on breeders, eggs and young stock. Shorewood Farms Co., Box 6, Saugatuck, Mich. 7

BUSINESS BEAUTY BUFF Leghorns from large eggs from mature, typical, robust, prolific hens. Both combs. Out-bred, pedigreed. Catalog. Joseph Benedict, Chevy Chase, Md. 1-18-17

R. C. BUFF LEGHORNS

BUSINESS BEAUTY—See Single Comb class. 1-18-17

ROSE COMB BUFF LEGHORNS—Stock and eggs. Catalog. Howard J. Fisk, Falconer, N. Y. 3-18-17

BLACK LEGHORNS

BLACK LEGHORN HENS for sale—Good ones, \$1.50 up. Milo L. Myers, Marysville, Ohio. 6-7

LEGHORNS—SEVERAL VARIETIES

50,000 LEGHORNS, Single Comb White and Brown. Stock. Eggs. Day-old to four weeks chicks. Catalogue stamp. Failing Poultry Farm, La Fargeville, N. Y. 4-7

BLACK MINORCAS

WANTED—EXTRA LARGE yearling males and 1918 hatched pullets, Single Comb Black Minorcas. State number, quote price. Address—G., American Poultry Journal, Chicago, Ill. 7

MINORCAS—SINGLE COMB, Black. Day-old to four weeks chicks. Stock. Eggs. Catalog, stamp. Failing Poultry Farm, La Fargeville, New York. 5-7

SINGLE COMB BLACK Minorca eggs at bargain prices. Circular. L. C. St. John, Waynesville, O. 5-7

ROSE COMB BLACK Minorcas. Exhibition and utility stock, and eggs for hatching at all times. Send for our large catalogue. G. A. Clark, Seymour, Ind. 6-17-17

WINNERS AT PANAMA and official 200-egg strain, National egg-laying contest, Missouri, up to 272. H. A. Kultz, Burlington, Wis. 2-18-17

ROSE COMB BLACK Minorcas — Trapped; prize winners. Stock for sale. Geo. Konrad, Waukesha, Wis., R. 1. 6-8

BUFF MINORCAS

BUFF MINORCAS—See display ad page 675. Walhalla Poultry Farm. 3-18-17

SINGLE COMB BUFF Minorcas — Good winter layers. 15 eggs for \$2. Fred P. Dietz, Mt. Vernon, Ind. 6-8

WHITE MINORCAS

ROSE COMB WHITE MINORCAS — Get prices of my 1917 Chicago winners. I have some choice matings and can furnish large white eggs that will hatch. W. E. Haase, Omro, Wis. 5-7

BUFF ORPINGTONS

SINGLE COMB BUFF Orpingtons—Owen strain. Large, well shaped, good laying strain. Eggs, 15, \$1; 30, \$2; 50, \$3. Charlie McGrath, Scioto Mills, Ill. 4-7

RHODE ISLAND REDS

PERRY'S SINGLE COMB REDS — Eggs after May 1st, pen run, 10 cents each; incubator eggs, \$6 per 100. Freed Perry, Ottawa, Ill., R. 31. 5-7

RHODE ISLAND WHITES.

SHOREWOOD RHODE ISLAND Whites—Officially certified winter layers with records up to 261. Great reduction sale on young stock, breeders and eggs. Shorewood Farms Co., Box 6, Saugatuck, Mich. 7

RHODE ISLAND WHITES—Heavy laying strain. Eggs, fifteen for one-fifty. Fred M. Haas, Machias, N. Y. 5-7

THE GREAT RHODE ISLAND White farm. Eggs reduced, \$1 per 15. Rose and Single Comb. Stock \$6 per trio; \$10 per pen. Catalog free. Henry Eichelmann, Waterloo, Ill. 6-8

BARRED PLYMOUTH ROCKS

BARRED ROCKS — DAY-OLD to four weeks chicks. Stock. Eggs. Catalog, stamp. Failing Poultry Farm, La Fargeville, New York. 5-7

EGGS—\$6 PER 100. \$1.25 per setting. Mammoth Barred Rock chickens, have had them weigh to 16 lbs. Howard Irvin, Polo, Ill. 4-7

BARRED ROCK COCKERELS—Purchased this spring as baby chicks, from Parks' best pens, \$2 each. Some others from Parks' best stock (not direct), \$1 each, 6 for \$5. Thos. M. Keller, Dongola, Ill. 6-7

BUFF PLYMOUTH ROCKS

BUFF ROCKS—BEST pens of selected layers; fifteen eggs for \$1. H. G. Liddle, Wever, Iowa. 2-7

PARTRIDGE PLYMOUTH ROCKS

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 698. 5-15-17

WHITE PLYMOUTH ROCKS

LANDIS WHITE ROCKS, winners at Indianapolis, Chicago, for past twenty years; extra fine show and breeding birds at fair prices; mention what you want from this ad; none better; must please; four select pens; eggs, \$5 per 15. John Landis, Edinburg, Ind. 2-7

CHADWELL'S FAMOUS WHITE ROCKS win, lay and pay. Special values in eggs, \$1.50, \$3 and \$5 per 15. A. J. Chadwell, Jacksboro, Tenn. 6-7

SPANISH

WHITE FACED BLACK Spanish—Winners at some of the largest shows in the country. J. R. Galloway, Elwood, Indiana. 7-9

GOLDEN WYANDOTTES

GOLDEN WYANDOTTE cockerels, \$3, \$5. Cocks, \$5. Eggs, \$1.50, 15; \$7 for 100. Anna Chase, Centerville, Pa. 5-7

WHITE WYANDOTTES

WHITE WYANDOTTES — Individuals to please the most exacting fancier. Bargains. J. F. Garrison, Mt. Vernon, Ill. 7

STANDARD BRED WHITE Wyandottes—Records 176 to 293. Eggs and stock from these birds bred for 12 years with the sole purpose of making a great production strain. F. K. Cooke, Winnetka, Ill. 5-7

WHITE WYANDOTTES exclusively — Stock and hatching eggs for sale. Orchard Poultry Yard, St. Peter, Ill. 12-16-17

WHITE WYANDOTTES—Stock and eggs for sale; write for price list. Earnest Massey, Mystic, Iowa. 2-18-17

WHITE WYANDOTTE EGGS — Fishel strain. Coliseum winners, \$1.50 per 15. Write for stock prices. R. E. Bullock, 4202 Delmar Avenue, St. Louis, Mo. 6-7

DUCKS

WILD MALLARD DUCKS—Eggs and large supply of fine birds for sale. Perfectly mated. Safe delivery and satisfaction guaranteed. Large supply new stock secured each year. Wm. Stangle, Camden, Ind. 5-7

GEESE

WILD CANADIAN GEESSE—\$12 pair; all varieties. Ducks and geese for the fall fairs. Dawson Bros., Franksville, Wis. 6-8

TURKEYS

AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our ad. on page 698. 2-17

AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 698. 2-15-17

PIGEONS

WANTED — 5,000 COMMON or Homer Pigeons. Pay at least 25c pair. Market poultry wanted. D. Gilbert, 1128 Palmer St., Philadelphia, Pa. 7

I OFFER GUARANTEED MATED Homers in any quantity at \$1 per pair. Beautiful White Homers, \$1.50 pair. Squab companies challenged to produce better stock at twice this price. Get my prices on Runts, Carneau, Maltese hens and save dollars. Squab Manual, 25c. Charles A. Gilbert, 2210 Almond St., Philadelphia, Pa. 7

\$\$\$ IN PIGEONS! Start raising squabs for market or breeding purposes. Make big profits with our Jumbo Pigeons. We teach you. Large, free, illustrated, instructive circulars. Providence Squab Co., Providence, R. I. 6-7

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RAISE BELGIAN HARES for me—I furnish all grades of stock at from \$2.50 up, and buy all you raise at 30 to 60 cents per pound, live weight. My famous instruction booklet and full particulars, 10c. None free. Frank G. Cross, 6433 Ridge, St. Louis, Mo. 11-17-17

RUFUS RED BELGIAN Hares, six months or over, utility, \$3 each; pedigreed, \$5 each; three months or over, \$1.50 each. Pairs not related. W. B. Grinyer, Eleroy, Ill. 7

CHECKERED AND FLEMISH—Write for prices. Ideal Rabbitry, Cape Girardeau, Mo. 7-9

BELGIAN HARES AND Mammoth Flemish Giants. Booklet on Hares, 10c. Canada's Rabbitry, 258 York, Denver, Colo. 7-9

DOGS

PEDIGREED COLLIE PUPS. Males, \$10; females, \$5; London Hope at stud, fee \$10. Plummer McCullough, Mercer, Pa. 9-15-17

THOROBRED AIREDALE pups for sale, or trade for thorobred chickens. F. M. Dougherty, R. 1, Box 33, Des Moines, Ia. 7

REGISTERED SCOTCH COLLIE puppies. Leghorn pullets. Catalog, stamp. Failing Poultry Farm, La Fargeville, N. Y. 7-9

FOR SALE — Two 10-month-old female Airedales, also younger pups, all eligible to registry; good watch or rat dogs. Holland Bros., Mystic, Iowa. 7-9

INCUBATORS AND BROODERS

FIRST TWELVE-DOLLAR check takes 130-egg hot water incubator, worth double. Must sell quick. Box 156, Stamps, Ark. 7

ORNAMENTAL

ORNAMENTAL LAND AND WATER Fowl. Pheasants: English Ring-Neck, Silver, Golden, Lady Amherst and Reeves. Ornamental Ducks: Redheads, Canvasbacks, Bluebills, Mandarins, Spoonbills, Pintails, Green-winged Teal, Blue-winged Teal, Cinnamon Teal, Wood-ducks, White English Calls, Mallards, Black Mallards, and Grey English Calls. We also have Canadian Wild Geese, Egyptian Geese, California Valley Quail, Bobwhite Quail, and dozens of varieties of pigeons. Eggs in season and stock for sale at all times. Send 25 cents for our instructive booklet, "Management and Care of Pheasants and Other Ornamental Fowl." Fair Oaks Farm, Dept. A, Waukegan, Ill. 4-6

POUND PULETS AND COCKERELS

FOR SALE—POUND pullets and cockerels at \$9 per dozen. All varieties. Wright, Garden Prairie, Ill. 7

PET STOCK

BEAUTIFUL ANGORA CATS and kittens; make the best ratters, \$5 up. Stamp for reply. Bay View Farm, North Haven, Maine. 6-8

CANARIES

IT PAYS TO RAISE canaries — Big demand; start at home; spare time. We show you how; very little capital necessary; high grade songsters; breeders furnished. Monarch Specialty Co., Evanston, Ill. 5-7

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MEN OF IDEAS and inventive ability should write for new lists of "Needed Inventions," "Patent Buyers," and "How to Get Your Patent and Your Money." Randolph & Co., Patent Attorneys, Dept. 319, Washington, D. C. 10-17-17

VALUABLE PATENTS SECURED — Protect your ideas. Send drawings for patent-ability search. New booklet free. Lester L. Sargent, 524 Tenth St., Washington, D. C. 9-17-17

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POULTRYMEN WHO DESIRE "better quality," quick delivery, low prices, will appreciate Sullivan Printing Company "Service." Pleased customers every state. Latest engravings. Interesting samples free. Drawer 10, Sullivan, Indiana. 7-9

POULTRYMEN'S PRINTING Prepaid — Noteheads, envelopes, cards, tags, labels 100 either, 55c; 250, \$1.00; 500, \$1.50; 1,000, \$2.50. Postcards, catalogs, circulars, linen letterheads, everything. Finest cuts furnished. Stamp brings elegant samples. Model Printing Company, Manchester, Iowa. 6-8

FARMS FOR SALE

COMMERCIAL AND FANCY poultry farm in Southern state, completely equipped. Best markets. Capacity, 2,500 hens. Owner has other business. A. Z. care American Poultry Journal. 7-9

SOUTH DAKOTA WITH ITS limited farm acreage is placed fourth in production for 1917 by Government report, giving it first place per farm and per capita. The state will loan money for development of its farms. If you would share in this, get bulletins of Chas. McCaffree, Commissioner of Immigration, Capitol 12, Pierre, S. D. 7

FINEST HARDWOOD LAND in Michigan's best counties; 10, 20, 40, 80-acre tracts or more; \$15 to \$30 per acre; easy payments; free insurance; settlers pay no taxes for 5 years; money loaned to build and improve; fine for clover, general crops, poultry, fruit, stock raising. Write for free booklet free. Oldest and biggest company in the business. Swigart Land Co., 1-1259 First Nat'l Bank Bldg., Chicago. 7

NEW JERSEY FARMS FOR SALE

BOTH SONS IN ARMY—Widow must sell. Ideal fruit and poultry farm, 20 acres high cultivation, 10 minutes' to depot, commute to city of nearly two millions; heavily fruited to apples, pears, plums, cherries, quinces, peaches, strawberries, blackberries, grapes, asparagus, etc. Excellent 8-room house, shaded porches, barn, stable, carriage barn, 2 poultry houses, etc. Price was \$5,000, but widow sacrifices now at \$2,500, including fine Jersey cow, 4 pigs, good horse, 200 hens, vehicles, full equipment tools, part cash. Details this and another money-making 20-acre bargain on page 24, Strout's Catalog; copy free. E. A. Strout Farm Agency, Dept. 4002, 150 Nassau St., New York, N. Y. 7

MOTORCYCLES

SILKIE CHICKENS EXCHANGED for motorcycle, bicycle. Enoch Bailey, Albion, Ill. 7-9

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FORDS CAN BURN half coal oil, or cheapest gasoline, using our 1918 carburetor; 34 miles per gallon guaranteed. Easy starting. Great power increase. Attach it yourself. Big profit selling for us. 30 days trial. Money back guarantee. Styles to fit any automobile. Air-Friction Carburetor Company, 378 Madison Street, Dayton, O. 7-18-17

WANTED

WANTED—EXPERIENCED chicken man for good location in South Carolina. Would furnish land, house, fences, etc., on share basis. Box K, American Poultry Journal, Chicago, Ill. 7

LOOK! WANTED—Pound size and larger pullets in Silver and Golden Campines, Buttercup, Speckled Sussex, Anconas, Rocks, Reds, Minorcas, Orpingtons, Wyandottes, Leghorns. Yearling hens in Silver or Golden Campines, Buttercup, Speckled Sussex, White Campines, S. C. White Minorcas. Only healthy thorobred stock wanted. In writing, state lowest price. Walker Lybarger, Gambier, Ohio. 7-9

ILLUSTRATED BREEDERS CARDS

Rates for Illustrated Breeders' Cards: With small sized illustration (to be furnished by us), 40 words 1 month \$3.00, each additional word 7c; 40 words 3 months \$8.00, each additional word 20c; 40 words 6 months \$15.00, each additional word 37c; 40 words 12 months \$35.00; each additional word 62½c. Numbers and initials count as words. Terms: Cash with order. Minimum charge, 40 words. Copy for advertisement, plainly written, should reach this office by the 15th of month preceding date of issue. In answering these ads, please mention American Poultry Journal.



BABY CHICKS FOR JULY—Barred Plymouth Rocks, White Rocks, Buff Orpingtons, White Orpingtons, White Wyandottes, Single Comb Rhode Island Reds, Single Comb White Leghorns. Write for free circulars. Name breed wanted. Martin Michelson, 232 5th St., Aurora, Ill.; Chi. Phone 884J. 7



LOOK! EIGHT FINELY barred pullet-bred Barred Plymouth Rock cockerels (from my last year's best laying pullet); prize winner. Dam of 1-2-3 State Show pullets, Cedar Rapids, Ia. Laid 73 eggs in 75 days—34 without a miss. Are you interested in a cockerel from a long line of great layers and show room winners, and only \$10 each? If so, get busy. John Peterson, Box 29, Randall, Iowa. 3-18-1yr



MARCH HATCHED S. C. W. Leghorn cockerels, pure bred Ferris strain, from trapnested 230 to 260-egg record hens, \$3.00 each. Well grown range raised birds. Order soon. Jos. Kupferschmid, Hoopston, Ill., R. R. 4, Box 35. 6-8



PURE BRED WHITE Wyandottes, Rose and Single Comb Reds, Barred Rocks, breeding stock for sale. Eggs for hatching at very reasonable prices, quality considered. Special prices on eggs in large lots for filling incubators. N. E. Robart, R. 2, Caledonia, Mich. 6-18-1yr



FIFTY VARIETIES OF FINE thoroughbred poultry. Cochins, Brahmas, Langshans, Rocks, Wyandottes, Foudans, Orpingtons, H. I. Reds, Leghorns, Polish, Hamburgs, Spanish, Ducks, Turkeys, Geese. Incubators and Brooders. Large illustrated catalog mailed for 4c. C. M. Atwood, Box A7, Dundee, Minn. 9-17-2yr



WHITE ORPINGTONS—Superior quality. Bred for fourteen years for Purity of color, Prolific utility and Exhibition. Winners strongest competition. 400 ribbons, cups, American Poultry Association and club medals. Grand matings for eggs. Catalog free. F. Bullington, Box A, Richmond, Va. 5-18-1yr



DARK CORNISH—Bargains in breeders to quick buyers. Cocks and hens of the highest breeding. No culls. Youngsters from superb matings after first of September. Satisfaction in every sale or money back. Write. T. D. Moore, R. 7, Hopkinsville, Ky. 12-17-1yr



DEAD GAME FIGHTING Fowls—Red, White and Blue. They are full-fledged "honest-to-goodness" 100 percent American. Cocks defend themselves with dying breath and hens have pep and vitality to shell out winter eggs. Illustrated folder free. Alfred E. Graham, Cameron, N. C. 11-17-1yr

Illinois State Fair Poultry Show.

The big Illinois State Fair Centennial exhibition will be held this year at Springfield, Ill., on August 9 to 26, and it goes without any possible contradiction that nowhere in America will there be anything like it in 1918. The Illinois State Poultry Association, co-operating with the Illinois State Board of Agriculture, takes this means of telling the poultry breeders of Illinois and surrounding states of the grand opportunity before them. There will be no exhibitors' ticket charged the poultrymen, as formerly, and cash prizes will be larger than any fair in the world, and on all classes of poultry there will be silver centennial medals well worth winning. The U. S. Dept. of Agriculture will send a full and complete live poultry exhibit direct from the experimental farm at Beltsville, Md., and will establish a school for culling at the fair, commencing August 16 and lasting straight thru until the end. The culling of the non-producing hen from the flocks of Illinois is a wonderful thing and with capable demonstrators which the Government will have in charge of the school every breeder should take advantage

of this opportunity to attend this school, learn the culling system, enlist in the war emergency work the Government is asking you to and become your county leader and spread the good news and the system thruout your district. A utility class will be put on this year at the fair and a better opportunity for the utility breeders was never put before them. The American Poultry Association convention being held in Chicago on August 12 to 15, the results of the meeting will be brought straight from Chicago to the members at the summer meeting, and plans will be drawn there for a rousing drive for 1919. A junior department will be put on for the first time also and it is up to the breeders of poultry in Illinois to show the State Board of Agriculture that we are a bunch of hustlers and we will be able to get anything that will help the poultry industry from them. Fall down on this opportunity now before us and the cause of fancy poultry will get a setback that will take years to build up again. Let us all realize that the time to get into this thing is now. Enter at least a few of your birds at the fair. Come to the meeting, bring as many hustlers from your county as you can get, attend the culling school, enlist as local leader and become a

party to the greatest work ever attempted by any Government. Catalog will be ready soon. Write A. D. Smith, Quincy, or B. M. Davison, Springfield, Ill., for copy.

International Turkey Club to Meet at the Coliseum.

The new International Turkey Club, taking in all varieties of turkeys under one club head, has been organized and will hold their first meeting at the Coliseum Show, Chicago, December 3 to 8. This is one of the wisest moves that has ever been made, as under the new banner the work of conducting a club can be successfully handled by one secretary at a great deal less expense to the members and with better general satisfaction to all concerned. The membership for the first year is \$1, and this is to be taken as an invitation to all turkey breeders, no matter what variety you are interested in, to become a member of the new club. Mrs. Eli Fowler, Rochelle, Illinois, is the acting secretary, and will be pleased to get in touch with all interested turkey breeders. Would suggest that you send to Mrs. Fowler \$1 for membership and receive your card at once, and please understand that there will be \$50 in cash offerings this year at the Coliseum on Bronze turkeys alone. This will be for first, second and third display, so that no breeder can win more than one of the cash specials and these specials are offered in addition to the regular cash prizes paid by the association, and with H. A. Pickett, judge of turkeys, we should have the greatest entry at this show that has ever been caged at any exhibition. Remember, the Coliseum Show for 1918 is held on the same dates as the International Stock Show that brings thousands of stock men to the poultry exhibition and many of them are interested in turkeys and there will undoubtedly be more and better sales made than ever before. For premium list of the Coliseum Show write to Theodore Hewes, Secretary, 25½ West Washington Street, Indianapolis, Indiana.

International Buff Minorca Club.

The breeders of Buff Minorcas recently organized a club to be known as the International Buff Minorca Club, and elected the following officers: President, Dr. B. J. Hoverstadt, 57 Canal St., Boston, Mass.; vice-president, Mrs. Dr. S. M. Applewhite, 1502 South Press St., San Antonio, Texas; secretary-treasurer, Walter C. Young, R. R. 16, Dayton, Ohio. One of the main objects of this club is to increase and promote the interests of the Buff Minorca fowl thruout the world. Every breeder who is interested in this variety should become a member of this club.

Annual Outing.

The Wisconsin State Poultry Association will hold their annual outing some time the first part of August, 1918, at Watertown, Wis., which enterprising city boasts of the largest and most active poultry association in the Northwest. Its 150 members are making plans to entertain the State Association and hope to pull off a state meeting that will set a record to be proud of. Wisconsin poultry men will do well to plan to attend this meeting. Watch for particulars later.

Mention the American Poultry Journal when writing to advertisers.

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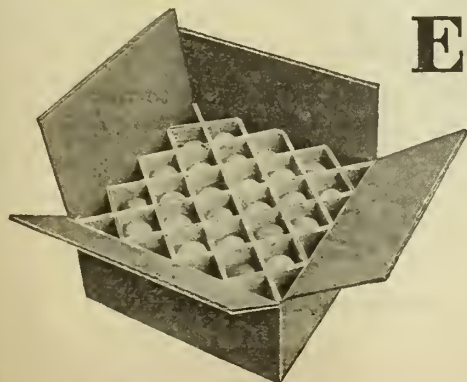
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Cocks	- - - -	1st, 2d, 3d, 4th, 5th.
Cockerels	- - -	1st, 2d, 3d, 4th, 5th.
Pullets	- - - -	1st, 2d, 3d, 4th, 5th.
Hens	- - - -	1st, 2d, 3d, 5th.
Exhibition Pens	-	1st, 2d, 3d, 4th, 5th.

Sweepstakes Champion Male and Female; Color and Shape Specials Male and Female; Best Five Males; Best Five Females; Best Display, and every other Special Prize. This is the capstone to their unexampled record at New York for 30 victorious years. At the last four shows—1915, 1916, 1917, 1918, they have won 19 First Prizes out of 20 offered. Every bird bred on my farm. Supreme at Madison Square Garden is Supreme Everywhere.

BARGAIN SALE FOR 1918

My Special Sale List is now ready and offers the most extraordinary bargains in extreme high quality breeding and exhibition birds of First Prize Madison Square Garden blood. **This is your opportunity** to secure Madison Square Garden winners, and sons, brothers, sisters and daughters of these winners, birds of this richest First Prize Sweepstakes blood at prices far below their values.

This Special Sale List

is full of the **rarest bargains** ever offered in the history of Barred Rocks and it will be to your best interests to write me for copy at once and secure the birds you need at **saving prices**. A copy will be mailed immediately upon request.

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AMERICAN POULTRY JOURNAL



VOL. 49, NO. 8

AUGUST, 1918

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879.

Published Monthly by the American Poultry Journal Publishing Company, 523 Plymouth Court, Chicago, Illinois. Subscription Price, \$1 for 3 years; 60c for 1 year

FUL-O-PEP

DRY MASH



Did you ever stop to ask yourself why your hens laid more eggs during the Spring and Summer than they do during the Fall and Winter months?

Many poultry raisers accept this as a matter-of-fact condition—they get the idea that is natural for the hen to lay during the summer months, but only occasionally in Fall and Winter.

No greater mistake could be made. The fact is, your hens will lay in Fall and Winter if you provide them with the same egg-making feed that they pick up themselves in the Spring and Summer when on FREE RANGE. It is the hen's chief mission in life to produce eggs and it does not matter whether it is Winter or Summer—if she gets the proper egg-producing feed, her machinery will produce the eggs—she can't help it. *You can't get eggs by feeding scratch grains*, because scratch grains do not supply the necessary egg-producing qualities.

Get Your Hens Ready Now For Big Egg Production This Fall and Winter

If you will begin now to feed your laying stock FUL-O-PEP DRY MASH you will get eggs in abundance right through the Fall and Winter months when you get the fancy prices. **We Guarantee It.**

Our poultry feed experts and scientists discovered by continued experiments and by watching the natural habits of the hen when on free range that there were certain food elements necessary for the hen if she was to produce eggs.

We learned that to get eggs in abundance it was necessary to supply the hen with the same kind

of feed she picked up herself in the Spring. This we have supplied in FULL-O-PEP DRY MASH. This wonderful egg-producing feed consists of Green Food, Animal Food, Grain Protein Food, finely ground and correctly balanced so that it makes hens shell out eggs in large numbers.

Remember, FUL-O-PEP DRY MASH is not an experiment—it is a tried and tested feed, manufactured and **guaranteed** by the largest feed manufacturers in the world. Tests with our own poultry and the poultry of our patrons have demonstrated that as an egg-producing feed FUL-O-PEP DRY MASH cannot be surpassed.

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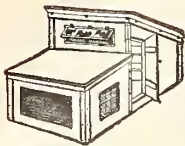
Reserve your winners early and be assured of the pleasure and advantage of taking the ribbons at your next season's show. You know I couldn't make a proposition like this unless I had the goods. *Write me today.*

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A number of surplus breeders from my 1918 matings are for sale at ridiculously low prices—quality considered. Here is your chance to secure the best in the country to improve your present flock or for foundation stock.

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Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879.

Volume 49

Chicago, Ill., August, 1918

No. 8

PRESENT-DAY POULTRY FARMS

What a Visit to Sabrina Farm Taught An Old Poultryman

By Maurice F. Delano

WHEN one has devoted all his time for twenty-one years, and part of his time for the six years preceding, to the poultry business, he can be pardoned for feeling that he knows many things about the business and for having a skeptical feeling toward a brand new idea he has never seen worked out. I will freely confess that my visit to Sabrina Farms was made with my mind in its most critical state and really a tolerant attitude toward the new giant-house idea that Mr. Shaw was trying out on his farm. After a delightful day spent in studying the farm, the buildings, the carefully kept records, and the personality of the proprietors, Mr. and Mrs. Shaw, I came away with the feeling that this new idea in poultry architecture was a success, and well worthy of emulation throughout the country.

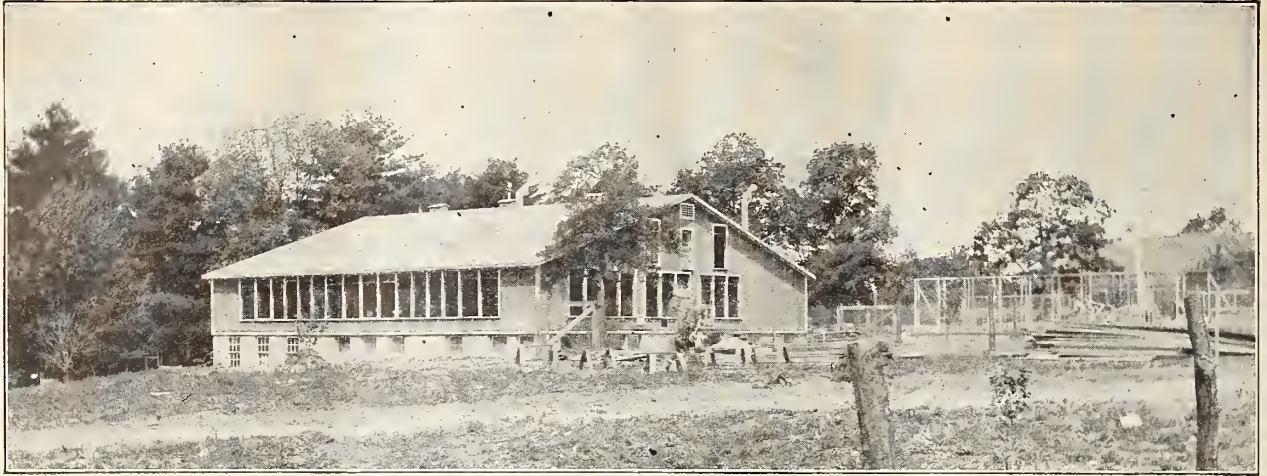
One beautiful day last May, Mrs. Delano and the writer passed up the train and took the trolley from Boston to Wellesley. A short auto ride from the center of this beautiful town brought us to "Sabrina," and we were welcomed by the proprietors. From the time we approached the farm I

found my spirit changing, and the more I studied its possibilities, the more I found to admire, the surer I became that here was a farm that was bound to become one of the most successful in all America. The location is not only beautiful, but absolutely ideal for poultry. The soil is excellent, a sandy loam that dries quickly and has splendid drainage. Originally developed as a pleasure park, with a large artificial lake, and several islands all walled in by granite to preserve them, the artificial features have been made part of the landscape by the softening processes of time, and Sabrina has one of the most beautiful settings I have ever seen anywhere.

More than forty acres are under cultivation this year, with corn the main crop. This acreage will be increased next year. Fine orchards have been started, and the older trees cleaned up and grafted. A fine flock of thorobred sheep is utilized to graze the extensive lawns and save mowing. The poultry, geese, ducks and pheasants are all kept under ideal conditions by following the laws of nature very closely. Mr. Shaw has built a roomy, homy bungalow on the largest of the islands



BUNGALOW OF ARTHUR H. SHAW, PROPRIETOR OF SABRINA FARM, WELLESLEY, MASS. THIS HOME IS LOCATED ON AN ISLAND, CONNECTED BY THREE BRIDGES WITH THE MAINLAND.



MAMMOTH LAYING HOUSE FOR 800 LAYERS ON SABRINA FARM.

in the lake. This island is roughly egg shape, and a white paling fence just back of the stone wall surrounding it helps bring out this appropriate outline for the home on this egg farm. It would be hard to imagine a prettier setting for a home. Splendid water vistas through the trees open up on every side. Ducks and geese were playing in the water everywhere, the paling fence keeping them from the home lawn and garden. I saw nest after nest full of goose eggs that were being hatched just where the parent geese chose to locate their nest, and a few early broods were already off. The home island is connected by three bridges with the mainland. Were Mr. Shaw to make them draw-bridges, he might well feel like a baron of old and sleep securely surrounded by a moat.

Naturally, my keenest interest lay in this new mammoth house for 800 layers that I had heard of, but never seen. We were soon following the winding driveway up the hill from the lake until we reached the higher level where the poultry buildings are located. The large 60-foot square building was studied from all sides before we entered it. The south front, and half way back on the east and west sides, were windows that could be opened at either top or bottom; one-piece 12-light regular storm sash. A very ingenious arrangement allowing this double method of opening. They can also be taken out and stored over head, and their places taken by muslin screens, at will. The main floor is all one room and 800 laying birds have a superb exercising space in this roomy interior, with plenty of sunlight and pure fresh air. The ventilation is perfect, as the fresh air comes in the window openings and the dead air passes up through ventilators and out above the roof. Enormous dry mash hoppers start about 15 feet from the front of the building and

run down the middle for about 20 feet. They have their bottom about 24 inches above the floor, so they do not interfere with the floor space. Foot boards give ample room for the birds to stand while eating their requirements from the hopper. The hard grain is fed from an ingenious invention of Mr. Shaw's. He places the grain in a large hopper which is mounted on wheels and has a snout or opening near the floor. Running this through the deep litter places every kernel of grain next to the floor, and the birds have to scratch hard for it. Running east and west across the building, about 40 feet from the front, are the banks of trap-nests. These, too, are well off the floor so birds can pass under them. In the rear of the building is the roosting room, with ample accommodations for the 800 dwellers in this mammoth apartment. A wire partition makes it possible to confine the birds to this room at will when cleaning the main building or handling the flock in a more constricted space.

Above the main room is a large feed room and plenty of space for grain storage. Mr. Shaw has taken advantage of a side hill to have the east side of the main floor just above the ground level, while the west side of the cellar floor is at the ground level, and the enormous cellar under the whole building gives him many things that all poultry farms need and very few have. Through the center is a roomy hall or corridor and the rooms all open from this hallway. It runs to within about 18 feet of the east side of the cellar. On the right as you enter is a roomy and well-lighted carpenter's or work room that is well equipped with machinery for doing all kinds of wood work. Next comes a fitting room for getting birds in condition, then an egg room, where there are ample accommodations for keeping eggs, then an incubator cellar well stocked with good lamp machines. This brings us



PORTABLE ROOSTING HOUSES USED FOR CHICKS ON SABRINA FARM.

to the corner. Next, along the east wall, is a cold storage room that is splendidly cooled by a large body of ice stored overhead in a large bin. Here are cooled and kept dressed poultry and market eggs. The next two rooms are root cellars, then a mushroom cellar, and this brings us to the corner, another root cellar. Along the north wall as an "L" to the main hallway is the heater and room for storing coal. Mushroom bins are cleverly placed around the heater, and a splendid income is derived from these bins and the other cellar. Next comes a large feed room, and chutes from the loft come down in the main hallway just outside the door to this room. Finally we come to a splendidly fitted room for fattening birds in crates, making all-in-all the best and most complete auxiliary plant I have ever seen on a poultry farm.

There are two large yards in connection with this building and the birds have access to them alternately, so that green stuff is kept coming all the time. Three hundred feet away the foundation was being built for another building just like the one described above, excepting the cellar will be used for housing the tractor and other farm machinery, and not as much money would be laid out in partitions as on the original building. Mr. Shaw believes that ample storage room for housing summer colonies, brood coops, as well as all machinery, will pay in the long run, and he is certainly right. Most of us have to take the wear and tear on our smaller houses, however.

You will be as keenly interested as I was to learn just how the birds wintered in their roomy quarters last winter. As you know, it was a supreme test, for it was the coldest winter on record. Also, there were only 600 females in the house last winter, so it was not filled to capacity. Notwithstanding these facts, it was an absolute success, and Mr. Shaw's carefully kept egg records are ample proof of it. The birds when I saw them were in splendid order and showed they had been in perfect health all winter. Mr. Shaw's opinion of the house is best demonstrated by the fact that he is building another. The saving of labor is sufficient to make the house attractive to every market egg man.

Between the two houses a long breeding house was being erected that will house the choice pens of White Wyandottes that will be Mr. Shaw's specialty. This house will have ten or more pens, each 8x15 feet, and the usual open-front curtains will be used. Yards will go from front and back of this house, so birds will alternate and have a green run all

the time. Several colony breeding houses and a male bird house will complete the present equipment for adult fowls. A good brooder house is now on the farm, and another will be erected this summer.

The many hundred sturdy youngsters coming on were very attractive. They had a large grass range, and as soon as the cornfields are well started the movable fences come down and the chicks roam at will through this ideal range. The roosting houses for these chicks differed from any I have seen elsewhere, and are well worth your study. They are all collapsible and are 10 feet square on the ground when erected. Sides, back, front and top are all frames, covered with wire netting and heavy roofing paper. The sides are covered with paper only for the rear 5 feet and the front has no paper. The roof and back are solid. This gives a fine roosting room at the rear and a covered loafing place at the front. The buildings are anchored to the ground so they will not collapse in a high wind; a splendid shelter for a goodly bunch of chicks and easily housed for the winter.

Mr. Shaw has been breeding carefully and well in a rather small way for some years and is now planning for the future. He is building what is bound to be one of the largest and best poultry farms in the country. Expansion will come as needed and only after the need for more house room has been demonstrated. Mr. and Mrs. Shaw love their White Wyandottes, and the fine quality in their flocks reflects this attitude. They also have a good flock of utility Reds and some of Uncle Isaac Felch's heavy laying Brahmas. Novel labor-saving devices are being freely introduced and automatic drinking devices convey water to every flock on the place. Mrs. Shaw is just as keen a fancier as her husband, and many splendid suggestions have come from her and helped to make the farm successful.

Every fancier will welcome the Shaws to our ranks with open arms, and the same careful work they have done with layers when applied to standard points will insure their success from the word go. It will be an inspiration for you to go to Sabrina, and you will come away with brand new ideas and full of enthusiasm from an hour or two spent with the Shaws. My regret at parting with the flock of White Wyandottes that I have worked on for over twenty years has been tempered greatly by the fact they have gone into such good hands, and I know that their further development as one of America's leading flocks of this grand variety is assured.

Advocate Standardbred Uniform Flocks

This Is Not a Time to Give Up Poultry Shows, to Stop Advertising or to Stop Breeding High Class Poultry. Fewer Birds, If Necessary, But Better Bred, Better Reared and Better Kept. Quality Counts. First Prize Article, A. P. J. Monthly Contest. By Edward R. Wright

THERE ARE THOSE who do not realize that the future of poultry keeping is dependent to a great extent upon the continuation of careful and scientific breeding, without which the painstaking work of years will become a dead loss. It is all well enough to say that "a hen is a hen" and that a hen lays eggs no matter what her color or shape may be, yet the fact remains that until the practice of careful and scientific breeding of poultry became a recognized undertaking, the female of the hen species laid her litter of eggs, hatched out a handful of chicks, taught them to scratch for a living, and then considered her life work done. Certainly no one who has made any study of the subject can fail to see that since man has begun the careful study and experimentation of poultry breeding, the value and desirability of the different breeds of poultry have increased enormously. And these things have not "just happened." If man had not spent his thought and energy upon the worthy problem of improving domestic poultry, we would be some billions of dollars poorer in wealth and not so well off so far as health and efficiency are concerned.

The future of poultry culture is just as dependent upon the

continuation of careful breeding as the present-day breeds of poultry have been upon former efforts in improvement. In all things a standard of excellence, with a gradual changing of ideals for betterment, is the only means of bringing about progress. When the standard is lowered, the work goes backward; or when the value of a high standard is disregarded or lost sight of, the result is invariably retrogression. Progress can only be maintained by the upholding of a high standard.

We are certainly justified in the belief that for many years man has chosen the best fowls of the various breeds as well as the most prolific layers for breeders and that thru this method of wise selection we have attained a high degree of beauty and efficiency in the accepted breeds of poultry. The work of a few painstaking breeders in each decade has carried the work forward. Is it a time now to allow this work to go for naught or shall we with grim determination accept the present crisis as the time to establish permanently the value and worth of Standardbred poultry? Man's time and money, his energy and brain power were never more valuable than they are today. There are a dozen demands made upon

him today where formerly there was one. Who can afford, then, to lend his energy or interest to any undertaking but that of highest worth?

It seems to me that this is the psychological time which all breeders of Standard poultry should grasp to spread the gospel of the importance of pure bred poultry and to aid in disseminating knowledge of their superior economic worth. All over the country, on city back lots and in country towns, beginners are taking up poultry keeping and many of them do not know one breed of poultry from another or whether a bird is a scrub or a pure-bred. True, a great many of these amateurs believe it is possible to buy a perfectly good pullet for \$1 or a setting of eggs for 50 cents, as was the case in purchasing mongrels not so many years ago. If, however, these beginners could be brought to understand the difference in actual value between an undersized, poorly fed, improperly grown mongrel or cross-bred and a perfectly well developed, well grown, Standardbred variety of poultry, and the really slight difference in purchase price, and the remarkable difference in value and income from such, every backyard, wherever poultry could be kept, would have a fine flock of pure-bred fowls.

The only way this can be brought about is for the breeders of Standard poultry and those interested in the advancement of well-bred poultry to work to that end. This is not a time to give up poultry shows. This is not a time to stop advertising. This is not a time to stop breeding good poultry. If your time is limited, if your means are limited, put what time and money and thought you can spare into the best—fewer birds if necessary, but better bred, better reared and better kept. Keep the quality plainly in evidence and let the public

know what you have by showing your best birds at the shows and by advertising them.

More and more, as time goes by, we are coming to realize that the breeds which maintain popularity are those which are capable of producing a good yield of standard quality eggs and meat, but this does not mean that so-called fancy poultry must go into the discard. It does mean that the fancy and the practical go hand in hand, and make up the all-around quality of the best breeds of poultry. Some of these breeds have held place in the front ranks for many years, and if their worth and breeding are rightly maintained will continue to do so. A letting down of the bars as to the quality breeding of poultry in a few years would result in a serious handicap to the poultry branch of animal industry, for all progress in whatever line depends upon the maintenance of a high standard of excellence. There is an unusual opportunity for everyone interested in poultry culture to do the industry lasting and unprecedented good in advocating that only the pure breeds of poultry be kept, whether the birds are kept for breeding purposes or for meat and eggs. In either case the results from pure-bred flocks will greatly outweigh those from scrub stock and the owner will in all probability become permanently interested in the breeding of high-class poultry.

A campaign along this line will greatly benefit the industry—all branches. But let us not go about it in a half-hearted sort of way. Whatever is worth doing at all is worth doing well and this is a matter that should claim the attention of every breeder and lover of thorobred poultry.

Let us strive as never before for high-quality breeding stock and the establishment of uniform flocks wherever poultry is kept.

The Sanitary Marketing of Eggs

The Producer Should Market Only Clean-Shelled, Whole-some, Full-Meated, Newly-Laid Eggs. Second Prize Article
A. P. J. Monthly Contest.
By Mrs. W. P. Henry

MUCH has been written about the tremendous loss thru breakage of eggs in shipment, as well as by loss thru spoilage, but this great waste of good food goes merrily on year after year. One has only to look over the poorer quality stocks of eggs on sale in the cities to realize that only about half the eggs for sale in the markets are really fit for human food. I have seen great hampers of filthy-shelled eggs, which must have been at least three weeks to two months old, placed on sale at perhaps 10 cents less a dozen than clean-shelled ones, and been amazed to watch the well-dressed women who came in and bought them for "cooking eggs." I have always been of the opinion that it is just as necessary for a cooking egg to be a good egg as if it were to be boiled, fried or poached for immediate consumption, and that if it had a tang of filth about it as flavor, it would stay with it even when concealed in a cake or muffin. Nevertheless, there seem to be a great many worthy people who make a business of using dirty, ill-flavored eggs for cooking purposes. Isn't the proposition up to the poultry grower to stop having dirty-shelled, ill-flavored eggs; and doing so, will he not at once increase the price of eggs?

I realize that frequently, even in the best regulated poultry houses, eggs do become soiled, and that sometimes the percentage of soiled eggs is quite large, but the marketing of soiled eggs in any quantity is a real handicap to the poultry business and one which poultry keepers everywhere would do well to strive to prevent. There are various ways in which this end may be attained.

No other than clean nests and nesting material should be tolerated in the poultry house. Broody hens should not be allowed to occupy nests where other hens are expected to lay. A sufficient number of nests should be provided in order that crowding on the nests may be prevented. Six nests will be sufficient for a flock of 50 hens. The nests should be so

arranged that there is no possibility of the birds roosting on the side of them and thus soiling the nesting material. If the young pullets start this bad habit, cover the nests in such a manner that they can find no footing on the top or edge of nests and they will soon seek other roosting quarters. Do not give up in a night or two, but keep up the practice for some weeks until the habit of roosting in a suitable place is fully established and there will be no further trouble. Roosting on nest boxes is a bad habit for young stock to acquire and it should be broken at the first opportunity.

Use nothing other than clean, sanitary nesting material. Hay, chaff, straw, excelsior and many other materials will suggest themselves, according to what is obtainable in the vicinity. Sawdust and clean, sweet-smelling shavings are used in many poultry houses. The main thing is that the material shall be clean and free from any disagreeable odor, as the egg readily absorbs any taint with which it may come in contact. If enough nests are provided there is little danger of the hens breaking the eggs in the nests. Plenty of oyster shell should be kept before the birds at all times and the hens will attend to having the shell of the egg of the proper composition that it will not break easily.

Carelessness in gathering eggs is responsible for a great many soiled shells. Breaking one egg on a pairful of others converts the whole lot into "dirties." In gathering eggs, the hands should be as clean as in milking a cow, the receptacle into which the eggs are put should be clean, the case clean in which they are packed, the fillers and cardboards all free from soil or broken egg.

In packing eggs for shipment, a certain amount of culling must be done. No rough-shelled eggs, brittle-shelled eggs, very small eggs or extra large eggs should be put into the case. The rough and brittle eggs are too easily broken, the small eggs rattle about in the filler and are broken, the extra

large eggs are too big to go into the filler without making too much pressure on the egg in the next compartment. Sometimes the large egg will carry in good condition but the ones next to it are found to be crushed. Plenty of packing should be used in the bottom of cases and on top. Corrugated paper is fine for this purpose. If the eggs are to be shipped any distance, sawdust should be used as packing in addition to the regulation fillers and corrugated paper packing. No eggs should ever be shipped unless they are known to be absolutely fresh and of good quality. If a reasonable price is obtained for the eggs they should be candled, and eggs containing bloodspots used for home consumption. Such eggs are perfectly good food when the blood spot is removed and the egg used while fresh, but when kept any length of time

and under unsanitary conditions the egg containing a blood-spot easily becomes a "bad egg."

While waiting shipment, keep the eggs in a cool, clean room. When shipping, mark the cases plainly as containing fresh eggs and thus see to it that the great waste in breakage and spoilage cannot be laid at the producer's door. If the expressman chooses to toss the case mercilessly into the car, and break 30 dozen at one stroke, the producer's conscience need not trouble him, since he has delivered into the carrier's hands 30 dozen clean, wholesome, full-meated, newly laid eggs and is entitled to collect a good price for one of the choicest foods man is heir to. Here's to the well-fed egg, here's to the new-laid egg, here's to the clean-shelled egg—a well balanced food, a satisfying food, fit for the gods!

Answers to Letter in June A. P. J.

Readers Reply to Interesting Questions Asked by "Chicago Reader"

IN JUNE A. P. J. we published a query letter from a "Chicago Reader" asking some very interesting questions about starting in the poultry business. Although we gave our frank opinion in reply to the queries, we asked readers, who had had practical experience in poultry keeping as a means of earning a living, to take part in the discussion and to give their views.

Four of the most interesting replies received are given herewith. One earnest fancier writes: "I think far too much stress is laid on so-called commercial poultry ventures anyway. It has always struck me that *poultry is and should be a side-line venture* with most of us anyway, a hobby as with myself and many others that I know of, but in my case a profitable one in that it shows a profit of satisfactory proportions, but at the same time I would dreadfully hate to rely

upon my hens for my bread and butter—oatmeal bread included.

"There is money—some—in commercial poultry, but why hasn't a fancier a better chance to weather storms than a market egg man? He has nearly as many eggs to sell, size of flocks considered, and whatever stock is sold generally brings in far more real money than the best market prices afford. I would like to see your premier journal put a little more accent on the fancy side and a damper on the 200-egg freaks."

ONE THOUSAND HENS IN FLORIDA.

The request in June issue of AMERICAN POULTRY JOURNAL, page 606, attracted my attention and the following reply is based entirely on thirty years' experience and results in the state of Florida.



THE THREE JOES — PAST, PRESENT AND FUTURE.

(1) One of the three Joes, J. R. Parks, Sr., past. (2) Another one of the three Joes, J. W. Parks, present. (3) The latest one of the three Joes, J. E. Parks, future. (4) Cockerel-bred male, from a 232-egg record dam. (5) Egg-type and narrow barring combined, as bred by J. W. Parks, Altoona, Pa., Box J.

If the man and woman referred to are fond of poultry and really enjoy work with fowls, will keep them entirely free from vermin and all such pests, and will supply their flocks with proper food and water, they can reap a comfortable living and 10 percent on their investment from 1,000 hens, pure-bred, from one of the Standard egg-producing breeds. I prefer S. C. White Leghorns because they stand our long summers better than the bigger breeds, lay as many eggs, and white eggs, on less feed—at least 50 cents per annum for each hen.

Based on the following prices for best feed obtainable (which is none too good for hens expected to lay eggs): corn, \$3.50 per hundred; oats, \$3.50; beef scrap, \$6; bean meal, \$2.25; wheat bran, \$2.25; wheat middlings, \$2.80; corn meal, \$3.50 (ground on place with hand mill); collards and sprouted oats for green feed, we are producing eggs at 20 cents per dozen, or we are feeding our hens for 20 cents each per month. The average price for eggs is 50 cents per dozen. We make no charge for labor. The man and the woman must of course do all the work. The roosts should be one foot above a light tray to catch all the droppings, which from 1,000 hens are worth \$40 per month here.

With all the necessary qualifications in the man and the woman, I would consider that a capital of \$4,500 would insure success, the investments to be made as follows:

Five acres of land near Jacksonville, Fla.....	\$ 250
Three-room cottage and sleeping-porch.....	750
Water plant (first-class).....	500
Hen house, 5x100 feet.....	250
Horse, wagon, tools and harness.....	250
One thousand April hatched pullets, October 1.....	1,250
Cash	1,250
Total	\$4,500

About two acres of land should be used for the poultry and buildings, the rest of the land used for cultivation, which in this latitude means every day in the year.

In normal times in Florida, an egg plant of less than 3,000 hens should be located near large markets; for more than 3,000 hens it makes very little difference, as the big producer can always contract his entire product to one of the big hotels.

No one writes about droppings, but on our light, sandy soil it is necessary to fertilize in order to grow crops that pay, and organic manures are better to enrich the soil than chemicals, tho' chemicals are a great stimulant to plant growth; but in order to enrich the soil organic manures must be used.

We expected to get \$1 a dozen for eggs in December, January, February and March, but 75 cents was the top. We are now getting 45 cents (June 10). Our egg year really begins in December, about the time the winter travel begins and the big hotels open. Now we have a great many soldiers to feed and men working in the shipbuilding plants, so the demand for eggs is very good and the price will not go below 45 cents, I am sure.

I buy day-old chicks in March or the first of April to keep up our stock, and if I were going to start here, I would buy chicks rather than hatch them. The 60-day broilers which have been pushed will bring now 75 cents each. Our loss this spring was hardly worth noticing, being less than 2 percent.

If I could not get ready for the hens before fall—say October 1—I would buy April or first of May pullets. We haven't a hen today over 13 months old. Our greatest trial here in this warm climate is caused by lice and mites. A virgin spot with brand new buildings is by far the best, and then never let a hen come on the place that isn't perfectly clean.

Anyone with average business ability, and who is adapted to the poultry business, who reads the poultry journals and is associated with successful men, who is willing to work hard, can live very comfortably on the proceeds of a 1,000-hen plant and have at least 10 percent on his investment to put in the bank. A garden will furnish something for his table every day in the year. Clothing and fuel will cost much less here in Florida than in cold climates, and the cost of buildings will be considerably less.

Jacksonville, Fla.

W. L. VAN DUZOR.

SHOULD BEGIN SMALL.

I read with interest the letter of "Chicago Reader" on page 606, AMERICAN POULTRY JOURNAL, the answer given his questions and the invitation extended for discussion. While leaving it for the poultry expert to specifically answer "Reader's" question, I think perhaps the experience and conclusions of a city man on a farm may help him somewhat.

By way of preface let me say, my wife and I moved to the farm in the fall of 1913. I was then on the shady side of forty. So have been in the business five years and would not think of crossing swords with experts. Having lived in the city more than forty years, I feel, however, that I know something of city men.

The first year on the farm I built a poultry house for 300 hens. In the fall I bought 25 pullets. For the 14 months ending December 31, 1914, I had \$25 over the keep of the birds. In 1915 I purchased a 140-egg incubator and two oil brooders. I sold the cockerels for a little more than the cost of feed and put 80 pullets in the laying house. In 1916 they returned about \$75 over their keep.

In 1916 I put up a brooder house, purchased a coal-burning brooder stove and a 340-egg incubator. That was a very bad year for poultry. Eggs were poor and hatches were bad. The spring was cold, with a great deal of rain, and I lost a large number of chicks. That fall I put 106 pullets in the laying house and sold the cockerels at a little above feed cost. The pullets laid earlier than the year before and by December 31, 1916, had given a profit of \$34, and in 1917 gave a return of about \$250 over their keep.

The last was another bad year and losses were heavy. I purchased another incubator, put up another brooder house, and in the fall put 265 pullets in the laying house. Those birds were late in laying, and when I come to sell them I stand to lose on them. In 1917 I sold the original birds and those hatched in 1915 for \$13 above cost, which sum includes the profit on sale of cockerels in 1915. In 1918, I sold the birds hatched in 1916 at a profit of \$70, which includes the profit on the cockerels sold in 1916, also some of the birds sold early in 1917 at \$2.50 each while laying.

There is nothing remarkable about that record and we came far from making a living, but as we have a little income "on the side," I did not set out to make a living—only to add to the income.

Now for conclusions and advice, and—by the way—advice is the cheapest thing on earth. When I came to the farm, I figured that a hen would lay 12 dozen eggs a year, that the eggs would sell at an average price of 25 cents per dozen, or \$3. I thought a hen would eat \$1.50 worth of food and that 50 cents per hen would cover all overhead charges. I still think that a fair estimate for conditions then existing. Today we must double the expenses, but I am not so sure about doubling the receipts!

If a man can care for 1,000 hens and hatch out and care for 3,000 chicks, he stands to make \$1,000 from eggs, plus something from the sale of the cockerels and the hens not kept for layers. Quite some job for a city man! I should advise "Reader" to start small and not expect to keep 1,000 birds for several years. But "Reader" should first decide whether he likes the country and country life. If he does not like it, he will find farm work the most monotonous drudgery he ever undertook. It is as great a care to raise chicks as it is to raise babies. If he thinks of getting into poultry raising as a man out of work might take any job that offered because it pays a living, he better keep out of it. I have been kept up until 1 o'clock in the morning nursing a refractory brooder stove, and again turned out in a driving snow storm at 2 a. m. to see that the lamps were burning and not snowed under. So have we all of us!

I would suggest that if "Reader" has the capital necessary to purchase, equip, stock and work a 100-acre farm, which I figure would be \$20,000 or \$25,000, he had better take, say, \$5,000 and buy a small place of about 10 acres and invest the balance in government bonds. That will give him some income while he is learning the business. Such a place would cost about \$2,000. He could fix it up for \$1,000 or less and have \$2,000 working capital. He should start small and

work up. After a few years he will know whether he wants a larger place.

Whether the poultryman should raise grain or not depends upon many factors. Here, it was cheaper to buy grain than to grow it, but now we can grow some grains cheaper than we can buy them. Yet I have bought all grain this past winter and made something above cost.

I see no reason why a man of ordinary intelligence, with work and study, should not make a "go" of the poultry business. But no man of intelligence should expect to start without experience and make a success of running a large farm or poultry plant. He would not expect to do it in any other business.

G. F. SHEPARD.

Stafford Springs, Conn.

POULTRY KEEPING WILL ADD TO INCOME.

I came to the country myself, an invalid thru nervous exhaustion, with the intention of making a living with poultry for eggs and meat. I gained my health but not a livelihood, for I soon saw that commercial poultry meant more than I cared to attempt. It looked easy and read easier, but there were several things I had no conception of. Fortunately for me, I thought I would start my poultry venture easy by not attempting too much the first season, so I contented myself with buying 200 baby chicks and a really good breeding pen. The breeding pen didn't bother me so much, but I was busy from morning till night with those fool chicks. Of course, I had it all to learn, with no equipment on hand whatever, and I certainly learned a plenty; and the best thing I learned was that if I had multiplied my chicks by ten, which was my original intention, I would not be here to write this story. So my poultry was successful after all.

Now, after ten years, I am still in the country, in good health, with a good bunch of chicks, and I am sure no one could induce me to live in the city again—no, not for a dollar a minute. Also, I have found my proper niche in the poultry business and am making progress every year, and have accumulated some reputation and am making money out of my poultry venture—but I have never considered it a livelihood. I look on it more as "velvet," for I have never gone in very strong, and neither have I any intention of doing so, for work, worry and responsibility are things I wish to avoid as much as possible.

But I feel that with my garden, which is generally a good one, and my eggs and my meat, I could weather any financial storm that might come along, but I want it a storm and not a catastrophe.

My remarks, you understand, are from the viewpoint of an invalid who has regained his health, but who has had a lesson in health conservation that will be long remembered. When first coming to the country I was amazed at what mere living in the country entailed. I had no idea that two people could use so much water that had to be pumped and carried and afterward emptied. I had no idea that one would have to cut and split so much wood to keep warm and cook with, nor had I any idea that grass and weeds grew quite so fast! I also noticed that whatever I attempted to do generally needed my utmost strength, from opening the barn door to stretching fencing. In fact, I was amazed at so many things that I had to change my ideas of life about.

In the city I generally lived in hotels, traveled with a good jolly crowd of men—men who were mostly comfortably fat—and when I came to the country I wondered at first where all the fat farmers kept themselves, but after I had been there myself a while and dropped from 210 pounds to 156 pounds, I ceased to wonder.

The point I wish to make is, that a country dweller can't be fat and do anything at all, for whatever there is to do requires considerable exertion and effort, so the country is no place for an invalid who cuts out a great deal for himself, whether it is keeping poultry or growing crops. So to Mr. and Mrs. Invalid of the June number I would say, go to the country by all means, but don't attempt anything much until you feel you surely can see it thru. Just try to live comfortably and easily, and make your garden, at least, half feed yourselves; the rest is not very expensive in most rural com-

munities, remembering that the farther off the main lines you get the cheaper it is to live.

I will now answer the questions from my viewpoint.

1st.—If one has enough money for two or three years' rent, groceries, and coal or wood, one can get along until health and opportunity point the way to a successful financial outcome. One can attempt it on nothing at all, but it means working out by the day when opportunity offers, and work and invalidism don't go together.

2d.—Never mind how much ground you have; make the most of what you can get. One acre will support a family if it goes at it right, but there's the rub—experience teaches better than words. Growing the poultryman's grain is a "false alarm." It can be done, but that means many acres, a lot of tools, teams and no end of work. A far better way is to grow a lot of what the land is adapted for, strawberries, or some fruit that runs to money fast, and use this money to buy grain with. With the profits of one, two or three acres of strawberries one can purchase all the grain a 50 to 100-acre farm will raise.



3d.—I bought mine away from a large city; that is, about 14 miles away, but on a road that isn't so much traveled, no trolley within 7 miles and no railroad, so I feel safe from tramps, poultry thieves and picnickers. If anyone wishes to see my hens he is quite welcome, but he has to make an effort to do so and I am not overrun with the merely curious and feel that I don't have to keep up a show place. I keep poultry for exhibition use only and have quite a few visitors, and anyone who makes the effort to come to see me I feel certain of selling to.

4th.—The experience of growing and feeding hens to keep them in perfect trim. The rudiments can be learned from books if one reads understandingly, but the actual experience is gained by watching your fowls from year to year. There are many branches to poultry keeping, all of them profitable if gone at right. I will name them in the order of desirability, from my viewpoint. Show stock, hatching eggs, breeders, baby chicks, broilers and roasters, table eggs. The first two branches are the only ones that appeal to me, for I can do a good bit of business with a relatively small flock. If I liked hatching I would sell baby chicks exclusively, but it means considerable time in the incubator cellar and I want to be outdoors mostly.

AN EX-INVALID.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1896, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

SUBSCRIPTION PRICES

United States, Cuba, Mexico and United States Possessions (except Chicago).....	1 Year	3 Years
Canada	12 issues	36 issues
Foreign	\$0.60	\$1.00
Chicago .....	.85	1.75
	1.10	2.50
	.75	1.50

Chicago, Canadian and Foreign subscriptions require additional postage and therefore the slight difference in prices.

TRIAL SUBSCRIPTIONS — In order to acquaint prospective subscribers with American Poultry Journal, we will mail one copy a month for six consecutive months to any point in the United States, its possessions or to Cuba or Mexico for 25c. The trial subscription offer (6 months for 25c) is for new subscribers only and not subject to renewal for a period of less than one or three years.

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TRADE MARK REGISTERED,
No. 74,059.

Issued the first of each month.
Published by

American Poultry Journal Publishing Co.

JAS. W. BELL, President,
523 Plymouth Court, Chicago, Ill.

Editors.

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PRINCE T. WOODS.

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Editor, Silver Lake, Plymouth Co., Mass.

HELEN T. WOODS, Editor Woman's
Dept., Silver Lake, Plymouth Co., Mass.

Advertising Representative,
E. G. ALDRICH.

Look at the address on your wrapper upon receipt of the first issue after subscribing. See that it is absolutely correct and notify us of any mistake, no matter how slight. Note the expiration date which appears thereon, and renew your subscription before the expiration date.

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55,000 American Poultry Journals for
August, 1918.

State of Illinois, County of Cook, ss.:
Chas. S. Peterson, secretary of the Regan Printing House, Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 55,000 copies of the August, 1918, issue.

CHAS. S. PETERSON.

Subscribed and sworn to before me this
20th day of July, 1918.

(SEAL) ALICE A. SHEHAN
Notary Public.

Foodfaditis

The following "news" item went the rounds of the daily newspapers early in July:

"For each 100 pounds of feed given to hens, man gets back only 5.1 pounds of eggs.

"For each 100 pounds of feed given to cows, man gets eighteen pounds of milk.

"For each 100 pounds of feed fed to sheep, man gets but 2.6 pounds of mutton.

"These and other interesting facts are brought out by the Allied Food Commission, representing the United States, France, Great Britain, Italy and Belgium, in a study of the food requirements of human beings. The logical conclusion is that cereals should be conserved for human use, instead of being fed to live-stock, and that governments, in fixing prices, should place the restrictions on meat rather than on grains.

"An average man weighing 154 pounds, says the commission's report, doing average work for eight hours a day, needs food to the value of 3,300 calories daily. In case of need this can be reduced 10 percent without injury to health. Meat is not necessary to human life, rules the commission, and therefore a minimum meat ration was not specified. The minimum ration of fat per day per person is seventy-five grains, or about 2½ ounces."

We have not read the official report and so do not know how much of the above is quoted and how much was born in the fevered imagination of some enterprising "journalist." We doubt very much if experienced and practical men will accept either the "facts" or the "logical conclusion." To us it looks like a bad attack of *foodfaditis*, and the worst feature of it is that a very large part of the city-bred consuming public will accept it for truth.

Of course we know that man can exist without animal foods, but can he really *live* and be truly efficient? Even the peoples nationally subsisting very largely on cereals also consume great quantities of fish, poultry and eggs. We would not want to see



introduced into our country the malignant diseases which so commonly affect those whose national diet is largely cereals and fish. Probably much of the natural health, ability and efficiency of Americans is due to our well-mixed diet, as well as our environment and natural advantages. Much of our success in preventing infant mortality has been due to an abundant supply of pure milk and new-laid eggs. We certainly cannot afford to sacrifice our growing youngsters and coming generations upon the altar of the food faddists. Winning the war at the sacrifice of our future population would indeed be a barren victory, and such sacrifice certainly seems wholly unnecessary. With the food situation properly handled and with our great natural resources, there should be an abundance of wholesome foods for all.

Without going too much into details, which any practical poultryman or farmer can supply for himself, think what it would mean to materially cut down or go without our farm animals and their by-products. Wool, leather, feathers, etc., are very necessary and much needed. Some "agricultural experts" have told us that we do not need the dung of animals to manure our farms and that chemical fertilizers will fill all requirements, but are there many practical farmers who will accept that as fact? Certainly experience has demonstrated that nothing will build up run-out farm land like the manure from poultry, cattle and sheep. Chemical fertilizers are well enough and very useful in their place, but there are soils and seasons where they fail to give results and their cost is prohibitive.

Take the statement made in regard to the hen. It is not true that 100 pounds of feed are required to yield five and one-tenth pounds of eggs—"feed"

in this case meaning grain or by-products of grain. Selected eggs may easily weigh from 28 to 32 ounces to the dozen. With well selected hens, 45 pounds of mash mixture and 45 pounds of scratch grains will feed one hen for twelve months and in that year such hens should average ten dozen eggs per hen. The eggs will average 24 ounces to the dozen, which gives 15 pounds of eggs for 90 pounds of feed, and during the year the hen has, in all probability, added one pound to her own weight, assuming that she started the year as a five-pound pullet. This, we believe, is a conservative estimate and many of our readers will be able to produce records much better than this from flocks of well-fed hens.

It is not fair to assume that this 90 pounds of feed, fed to the laying hen, could be saved for human use as cereal food. The feed is very largely made up of inferior quality grains and the by-products from milling grains, as well as a percentage of vegetable and animal products which even "journalistic" imagination or the food faddist's theory could not stretch into usefulness for human food. Probably from 85 percent to 90 percent of the feed used for hens could not be utilized for human consumption and would be wasted if not fed to farm animals. Why put so much effort into endeavoring to show great loss entailed when feeding such feeds to hens, and why misrepresent the hen and her product? Next to milk, eggs are our most valuable food. Without considering the case of our babies, what would become of our wounded and invalidated soldier boys if such valuable foods as milk and eggs were eliminated at the source?

Surely no one will question that milk is our *one most valuable* and generally useful foodstuff, nor dispute the fact that butterfat is very desirable. Undoubtedly skilled use of grains in feeding dairy cows has contributed largely to increased milk production, next to careful selection and breeding. Without presenting the case of the dairy cow, we will confine our comment on the commission's statement to personal experience with a good family cow, a grade Guernsey. She has been in milk now for about 23 months and altho due to come in within five weeks, she is giving nine quarts of strained milk daily. We have cut off the grain feed to try to dry her up before calving, but she gives evidence of being likely to "milk all around." She has averaged only five pounds of grain feed daily. On this feed, in addition to her hay, grass, or fodder, she has averaged to yield 20 pounds of milk per day, which would be equivalent to 400 pounds of milk for each 100 pounds of grain feed fed, instead of the eighteen pounds mentioned in the newspaper item. The grain feed has been very largely wheat middlings, with some corn and gluten feed. Taking her entire food ration, feed and fodder, she has not failed to yield 40 pounds of milk for 100 pounds of rations. We have had milk, cream and butter for the whole family, and in addition she will soon give us a calf and has yielded a very considerable quantity of manure to add fertility to the soil of our farm. Her three-year-old daughter, now fresh, promises to yield better returns than her dam, and is yielding close to 18 quarts of strained milk daily with her first calf. She is getting approximately the same allowance of grain feed in proportion to her yield.

We wonder if even a food faddist could get as much nourishment and comfort out of say 5 pounds

of middlings, even with the addition of 45 pounds of fodder and vegetable waste, as he would from ten quarts of good rich milk? Would he prefer, or thrive better, on mill feeds, forage and fodder; or would he find milk, cream and butter—as well as prime quality new-laid eggs—better and more wholesome food for himself and family?

We haven't had much experience with sheep, but if the sheep figures are half as far-fetched—which seems more than likely—as are those for hens and cows, our newspapers would do well to print less "expert testimony" and give us more plain common sense and practical experience.

Still at It

The demand for new-laid eggs is far from being what it ought to be. Although production costs have soared almost out of sight, eggs are today one of our cheapest foods and big value for the money.

At present writing, July 6, the wholesale price of eggs at the farm is only 55 cents per dozen and the retail price 60 cents. In normal summers before the war, with production costs about 150 percent less than at present, eggs have regularly sold to shore and summer colony trade at from 60 to 75 cents per dozen and the supply about equal to the demand. Today they are slow sellers at 60 cents.

If our good Uncle Samuel wants to do something to really and permanently increase production of poultry and eggs, he should do his utmost to stimulate increased consumption. Get people to understand that eggs are cheap and wholesome food at present prices, really economical food at prices considerably in advance of present ones. Encourage people to eat eggs and more eggs. Increase the demand for eggs at a fair price and there will be an abundant supply to meet it.

One thing more, put a stop to all this "knocking" of eggs and their food value and prices. From time to time for many months we have urged a big nation-wide campaign for greater consumption of eggs and poultry products. Over a year ago we called special attention to the "knockers" who have been persistently knocking eggs and discouraging the consumption of eggs by the general public. We also on several occasions called attention to a big baking powder concern and some other big advertisers who were "knocking" eggs and urging the use of substitutes.

We believe that the American Poultry Association appointed a committee last year to confer with the baking powder concern and urge it to stop its objectionable advertising discouraging the use of eggs. We read later on that the baking powder concern had promised to be good, and one other big advertiser, who had been "using the hammer" on the value of eggs as food, promised never to do it again. Evidently the promises did not amount to a great deal, for they are still at it. One can scarcely pick up a paper or home magazine which does not contain some "knock" against eggs and some urge to use egg substitutes or to "get along without eggs." This may not make any difference with well-informed consumers, people who know that eggs and milk are the two best and most complete, as well as the cheapest foods—food value and digestibility considered—that can be obtained, but the persistent "knocking" leads a good many people

to "cut out eggs" and has seriously checked the demand for the new-laid product. People who ordinarily, in normal times, used quantities of eggs have greatly lessened their consumption; those who came by automobile and eagerly bought from 5 to 10 dozen at 75 cents per dozen, now buy seldom, buy not more than one or two dozen at a time and complain bitterly about the price—alho they are getting eggs at 15 cents less per dozen, at same season of the year, than they paid before the war boosted production costs.

We opened a newly purchased can of baking powder the day this editorial was written and found therein a tiny 12-page booklet entitled "A Few of the 55 Ways to Save Eggs," on the third page of which we read:

"In most recipes the number of eggs may be reduced one-half or more and often left out altogether with excellent results, by using a small additional quantity of _____ baking powder, about a teaspoonful in place of each egg omitted."

The reader of the booklet is urged to send for other eggless recipes — evidently, in spite of promises, they are still at it. We feel sorry for the many people who will not know any better than to try to substitute a teaspoonful of chemicals for two ounces or more of substantial, wholesome food contained in one egg.

A writer in the *Poultry World* (English) said over a year ago:

"Weight for weight there is no comparison between the nutritive value of eggs and any of the ordinary foods. An egg is a sealed packet of concentrated

TO OUR READERS.

Our subscribers are our friends and we use every effort to protect them in every way. We believe that every advertisement in this issue is signed by trustworthy people, and to prove our faith we will make good to our subscribers any loss sustained by virtue of their having purchased fowls or goods from one of our display advertisers.

All we ask is, that in ordering the fowls or goods, you mention to the advertiser that you saw the ad in *American Poultry Journal*; also that the purchase be made during the month or months in which the ad is inserted, and in case of loss notify us of the fraudulent misrepresentation of the advertiser, giving us full particulars as soon as it occurs. In all cases in writing to advertisers say, "I saw your ad in *American Poultry Journal*."

food out of all comparison more valuable, weight for weight, than fish, meat, pork, bread, etc. It is all assimilable, and contains no waste."

Something ought to be done to quiet and stop the "knockers" who are still "knocking" both the price and the food value of eggs. Something ought to be done to prevent mixtures of chemicals being offered as egg substitutes. Something should be done at once to educate the public concerning the great food value of eggs, their relatively low price when compared with other "meat" foods, and their great desirability as food for everybody and more particularly children, invalids and convalescents.

A big publicity campaign is needed to encourage greater consumption of eggs. Don't worry about a possible shortage in case of greatly increased consumption. The supply will take care of itself

if we stimulate demand. Let the public demand eggs and still more eggs—at prices which yield the producer a fair and just profit—and there will be plenty of eggs for everybody. There is no better way to secure increased production of food than to create a good demand for it at a fair price. Our resources are without equal—in a very short time America could increase egg production sufficiently to provide a liberal supply for the whole world.

Give us the demand, a chance to realize an honest profit, and, never fear, there will be eggs aplenty.

War Emergency Poultry Federation.

WE HAVE been reading the certificate of incorporation, by-laws and other literature of the National War Emergency Poultry Federation—that name in itself is a handicap which may have to be reckoned with—and a published interview given by the temporary president, Reese V. Hicks.

Now, we are for any practical measure which will result in an efficient organization of all the poultry interests of these United States for the betterment of the poultry industry. Not for any price would we "throw a monkey wrench into the gears" of any movement which seems destined to bring about desirable organization and co-operation of all poultry interests to save, protect, and promote progress of the poultry industry.

This "War Emergency Federation" is the direct outcome of the poultry convention at Chicago, March 29-31, and a later "star-chamber session," June 10

NOTICE!

This is to inform present and future customers that, beginning August 1, my entire stock of both old and young birds, S. C. WHITE LEGHORNS, formerly located at Lincoln, Mo., including all equipment, etc., will be transferred to Benld, Illinois.

[SIGNED] C. J. Labahn

Hillview Farm has incorporated with Belvedere Farm (formerly owned by Sciarra Bros.), an ideally located farm of 120 acres, within walking distance of Benld, Ill. The new location selected—the new Hillview Farm—is a natural range for poultry. It is naturally wooded, giving just enough shade; it is well drained—the entire farm being covered with hills and valleys, and a brook of clear, cool water fed by springs running almost thru the middle the entire length of the farm.

"Hillview" S. C. W. Leghorns are hardly in need of description, but we feel it our duty to inform our customers that in stocking Belvedere Farm several years ago, Sciarra Bros. did not spare money or trouble to secure the very best White Leghorns in the country for a foundation. The combination of these two strains (each of which will be bred separately) we honestly believe gives HILLVIEW FARM the best and largest flock of REAL QUALITY White Leghorns in America TODAY!

8,000 youngsters are now being raised on the new Hillview Farm, and the majority of these birds will be ready for the fall fairs and early shows. Hillview winnings at the National and largest shows and the National Egg-Laying Competitions are convincing evidence of the wonderful quality we have in both exhibition and utility Leghorns. MAKE US A VISIT—come and see for yourself! If you can't come personally, at least write for our big free catalog and get an introduction to AMERICA'S FINEST WHITE LEGHORNS. Write us your needs—we will cheerfully answer your letters. Get acquainted with HILLVIEW Quality, Service and Efficiency.

HILLVIEW FARM C. J. LABAHN **Box 753, BENLD, ILL.**
Sec'y-Treas. and Gen'l Mgr.

The equipment is the very best; new houses are being built, 21,000-egg incubator capacity, and brooding equipment sufficient to raise 10,000 chix is already installed, and all stock is kept under the most modern sanitary conditions, and under the personal expert supervision of Frank Gloeckl (former manager of Elm Poultry Yards). Mr. Gloeckl has had 15 years experience in handling large flocks of poultry and is thoroly familiar and considered one of the best poultrymen in the country today.

and 11, behind closed doors, of eleven gentlemen constituting an "Advisory Council," which session has been variously reported as a somewhat stormy one and alleged to have been "stampeded into doing what it did not want to do."

The purpose of the organization and the immediate work which it undertakes to do cover the same ground that is covered in the purpose of the American Poultry Association and the work which it has undertaken to do but has not done. Yet we are assured by Pres. Hicks that the federation is not to conflict in any way with the American Poultry Association. Thus we have two organizations in the field, both built of practically the same timber and devoted to the same work. Altho stated to be an organization for the "duration of the war," the certificate of incorporation and by-laws bear every indication of permanent organization. The whole structure seems rather unwieldy and cumbersome for a "war emergency" measure. The expense of development and maintenance, as well as the stated methods of business procedure, seem to be out of proportion to any probable benefits in the immediate future, and more in keeping with an organization which is intended to become permanent. Possibly we are mistaken in this. To us it seems that what is needed is prompt action and efficiency in safeguarding poultry interests.

Practically all that this federation can do, could and should be done thru immediate reorganization of the existing international organization, the American Poultry Association, placing it on a modern business basis with a sound system of finance thru annual dues and contributing memberships, always conceding that it be efficiently officered and the officers supported by a really active membership. The question naturally arises, Is this new federation merely a diversion which tends to divide the field and which may result in putting the fancy and the meat and egg branches of the business even wider apart than they are at present, or will it tend to close the breach which constant friction has kept always open? Will the new organization tend to eliminate the American Poultry Association or will the latter old organization ultimately gobble up the federation and render it inoperative?

This is a poor time to play politics and we have no desire to do so. There is need of immediate action to aid the Standardbred poultry industry. We are desirous of seeing co-operative organization of poultry interests which will truly represent all poultrymen, little or big, and render all concerned efficient service, with equal rights for all and special privileges for none. But this is not a time for duplication or wasting of either work or money.

This is written before the first open and general meeting of the National War Emergency Poultry Federation at Chicago, July 15 to 18 inclusive, the program of which is one might might well take two weeks rather than four days to cover in a satisfactory manner. We find comparatively small representation of fanciers, breeders, or plain practical poultrymen listed in the presentation of features for discussion. As was the case with the original Chicago conference the real producer seems to be decidedly in the minority. It would

seem that the poultrymen themselves—actual producers—rather than "instructors and investigators" ought to be specially prominent in any movement which proposes to: "Consider ways and means

Smith's White Leghorns

More first prizes at Chicago and St. Louis shows than any other strain! Birds that will win for you or birds that will improve utility qualities. Catalog sent free upon request. Eugene C. Smith, 317 Galena Blvd., Aurora, Illinois

Instead of Whitewash

You will save time and labor, find it much easier to mix and apply, get better results and in places that need disinfecting, too—poultryhouses, stables, dairies, creameries, cellars of homes and stores, outbuildings, etc.,—you can save one operation if, instead of whitewash, you will use the disinfecting paint that makes buildings lighter, better looking, sweet-smelling and sanitary and kills lice, mites, fly eggs, and the germs of contagious diseases.



CARBOLA

The Disinfecting White Paint

is a finely powdered pigment combined with a germicide many times stronger than pure carbolic acid, but not poisonous or caustic. It can be applied to wood, brick, stone or cement, or over whitewash, with a brush or spray pump as soon as it is mixed with water—no waiting or straining. It dries a clear snow white. One gallon covers about 200 square feet. Will not blister, flake or peel off. No disagreeable odor to taint milk or other food products. Does not spoil by standing, so can be kept ready to use when wanted, or for a rainy day job. Harmless to smallest chick or stock that licks it. Dry powder is an unexcelled lice powder.

10 lbs. (10 gals.) \$1 and postage 20 lbs. (20 gals.) \$2 delivered
50 lbs. (50 gals.) \$4 delivered

Trial package and interesting booklet for 25c postpaid.

Your hardware, seed, paint or drug dealer has Carbola or can get it. If not, send direct—shipment by parcel post or express the day order is received.

Dept. I CARBOLA CHEMICAL CO., Inc. New York
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Dog Kennel No. 4 Poultry House for 100 hens—5 units No. 3 Poultry House for 30 hens

THE Hodgson way is the ideal way to house your poultry and pet stock. Every style of Hodgson house is designed with full knowledge of requirements. Poultry houses are made of red cedar, vermin-proofed. ALL houses are sanitary, storm-proof and well-ventilated. They will give you better results because of their scientific construction. Hodgson houses are shipped in painted, fitted sections which can be quickly put together. Send for completely illustrated catalog. E. F. HODGSON CO., Room 332, 71-72 Federal St., Boston, Mass.—6 E. 39th St., New York City

HODGSON PORTABLE HOUSES

YOUNG'S STRAIN

Single Comb White Leghorns

I HAVE NO OTHER BREEDS

They have won first prizes in every state in the Union and in every country in North and South America. This strain is acknowledged throughout the world as being the Standard for all the Leghorns and the leaders of heavy layers.

EGGS HALF PRICE FROM NOW UNTIL AUG. 1

MATING LIST DESCRIBING 65 PENS AND PRICE OF EGGS FREE

D. W. YOUNG Box E-12 MONROE, N. Y.

Homestead Campines

The Vigorous Strain. They develop rapidly and lay early

Remember, Homestead dominates in the world of Campines. Get the best. Let us know your wants. HOMESTEAD CAMPINE FARM Box A WAYLAND, MASSACHUSETTS

Myers' Barred Plymouth Rocks

Lady Beautiful Strain Consistent winners for years at the big shows.

Single Birds, Trios or Breeding Pens. Hatching Eggs. Write for catalog and mating list. C. N. MYERS Box A HANOVER, PA.

to safeguard, promote and federate the poultry interests of the Nation."

We are hoping that the meeting will bring bright and welcome enlightenment concerning the federation and what results may be expected from it in the immediate future. While it is conceded that the war may last a long time, all of us are hoping for and, we trust, working for an early and decisive victory for America and her Allies. If this

S. C. White Leghorns

Breeding, Laying and Exhibition Stock for sale.
Meadow Lark Farm, Box 3, Route 3, Elgin, Illinois

new poultry federation is, as stated, "for the duration of the war only," it must at once get busy on a definite constructive policy and be prepared to show some immediate results—alho its lines do not indicate swift and decisive action, let us hope that it will surprise us all with its display of speed and efficiency.

Eggs by the Pound.

THIS is a good time for those who advocate selling eggs by the pound to get busy. Many fruits and vegetables which formerly sold by the basket,

bunch, or dozen, are now being sold by the pound as a result of the new food control rules. The plan seems to be working satisfactorily.

Bananas, which have so long sold by the dozen, are now sold by the pound. For the past two months the prevailing price of bananas has been 12 cents per pound, which sounds cheap but which means from 50 to 60 cents per dozen, or about the prices that prevailed forty years ago. It ought to be as easy to sell eggs by the pound as it is to sell bananas or other fruits and vegetables that way.

Selling eggs by the pound would be better for both producer and consumer and be conducive to a square deal for both. It is not necessary to go into all the details of the argument for eggs by the pound; the subject has been freely discussed on many occasions. In fact, wholesale prices today are governed by the weight of eggs per case, quality being equal. No one will question the fact that a dozen eggs weighing from 28 to 32 ounces to the dozen is worth more than a dozen weighing from 18 to 24 ounces.

With the "cheaper cuts of meat" selling—bone, trimmings and all—for 45 cents per pound and the better cuts bringing from 75 cents to \$1 per pound, as is the case today in our big Eastern markets, no one ought to complain when asked to pay 45 cents per pound for best new-laid eggs. Think what that would mean to the producer of large meaty eggs. The consumer would get first quality food, practically all digestible highly concentrated nutriment, packed in sanitary sealed packages—the shells—and no waste but the small amount of shell which is useful for settling the morning coffee.

Mr. Food Administrator, why not issue an order that hereafter eggs be sold by weight?

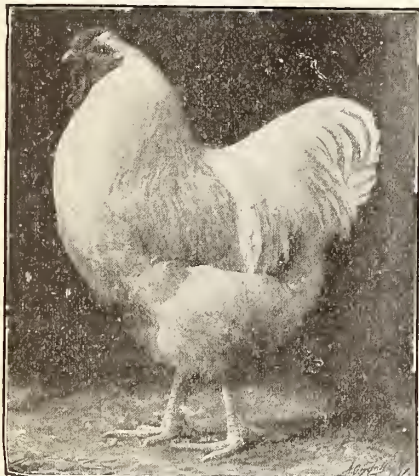
The Poultry Shows.

THE poultry shows should be given every encouragement and substantial support. Particularly should the small local show come in for its share of boosting.

Poultry shows create interest in poultry, stimulate the desire to own and breed Standardbreds, and encourage increased production. Give all the aid you can to make your local poultry show a success this coming season.

Show managers will do well to provide opportunity for beginners to exhibit and compare their poultry. It might be well to bring back the novice classes—even though some shows did drop them for apparently good and sufficient reasons. Beginners are necessary to the life of the industry. There are plenty of interested beginners this year who know very little about Standardbred poultry of exhibition quality and its worth. It certainly is worth while to endeavor to bring these beginners into the ranks of the fancy and to develop their budding interest in good poultry.

It has been suggested that a part of the proceeds of the shows be given to the Red Cross, also, where cash prizes are given, that 50 percent of the prize be awarded in Thrift Stamps or War Savings Stamps. These suggestions are worth considering.



First Prize Cock at Madison Square Garden, December, 1916

"Regal" Summer Sale

Have you received a copy of my summer sale lists? If not, send for one and look it over. This year I am offering over 1,000 of my breeders at bargain prices. To those who purchase this month, I am making a special offer. Regal White Wyandottes are famed the world over for both exhibition and utility qualities.

Eggs from best matings
\$3.00 per 15, \$5.50 per 30.

JOHN S. MARTIN
Box 51, PORT DOVER, ONT., CANADA

The "Glad Hand"

is always extended to any proposition that will enable a person to

Make More Money

Here is the best offer we know of in the poultry line

Sunnyside 8-Week-Old \$1.25 TO \$1.50

PULLETS—S. C. W. Leghorns, also Reds, White Wyandottes, Barred Rocks and Orpingtons, each

These birds are from 200-249 egg record stock which has been developed by me during 28 years of painstaking effort. They'll be laying next November and December, and if you keep accounts on them you will be surprised at the handsome profits they will show.

Year-Old Breeders Barred and White Rocks, Brown and White Leghorns, White Wyandottes, Reds, from trapezoid stock, with records of
180 to 200 eggs, each\$2.00 210 to 249 eggs, each.....\$3.00

100 Yearling White Wyandottes, Pedigreed Stock "State Tested" at \$3 each for lots, with Pedigrees.
Order direct from this ad, or send for catalog.

SUNNYSIDE POULTRY FARM R. C. Blodgett, Prop. Box 1002 BRISTOL, VT



MAMMOTH SUSSEX SALE

After June 1st, Moraine Farm will offer at reduced prices 100 of the breeders that comprised our matings of 1917-18. DON'T miss this chance to get the best at reduced prices. Write today for particulars and catalog describing our matings.

MORAIN FARM Poultry Department, R. R. 16 DAYTON, OHIO

Riverside Rose and Single Comb White Leghorns and White Plymouth Rocks

First prize winners at Chicago, Milwaukee, San Francisco, Oshkosh, Beloit and many other shows. At National Rose Comb White Leghorn Club Meet, Chicago, 1917, on 15 entries placed every bird. Won 3 firsts, 3 seconds, etc. Also champion male and female, best shaped female and best display. Day-old chix and eggs for hatching from our fine matings.

RIVERSIDE POULTRY FARM, R. 6, Box 3, OSHKOSH, WISCONSIN

My \$5 and \$10 Eggs For \$3 per 15 From all pens as they run.
Middlemarch Champion Buff Orpingtons
Jessie E. Gordon Box 535 Spring Valley, Minn.

"Letting George Do It."

RECENTLY we visited a village place where there were houses for accommodating several hundred fowl and every house empty. The proprietor was busy at work on one of the finest war gardens we have seen, the greater part of the area being devoted to crops that will keep thru the winter.

"Quit keeping chickens?" we asked.
 "No sir, and no notion of it," was the answer.

"But you are not raising any chickens and the poultry houses are empty," we ventured.

"Oh, that's different," he replied. "Raising chickens? I never raise any, can't spare the room nor the time. I always 'let George do it,' he always has and always will, I guess. I can buy all the pullets, ready to lay, in the fall for what it would cost me to raise them, or less. Always follow that plan. Buy pullets in the fall, fill up the houses, force feed to get the biggest possible yield of eggs and then 'scrap' the pullets when eggs get cheap and the price of fowl is high. For profitable egg farming on a small village place it is the surest way to get satisfactory results. I get eggs when the price is at the top. I only have to feed poultry when egg production is at top notch. Never have to feed any non-layers; that is, not for long. I get the best part of the eggs they would lay in their first year—no 'dead horse' to pay for—and I get all the manure they make and all there is in it for fertilizer value."

Noting that there were no yards in sight, we asked: "Do you keep the birds confined to the houses all the time?"

"No, when I begin to fill up the houses with pullets between the middle of September and the last of October, I use temporary yards of portable fencing and let the birds have green range until the heavy frosts kill the green food so it is not fit for feed. Then the layers are confined in the houses until plowing time in the spring, when I let them follow the plow and harrow to get rid of worms, grubs, and insects. The fence parts are kept painted and are stored under cover when not in use. In this way the portable fences ought to last me a lifetime."

"How long do you keep the pullets as a rule?"

"That depends on how they lay and market conditions. I keep most of them from six to eight months. They will average around nine or ten dozen eggs per pullet and there will be a gain in weight of about a pound or more per pullet."

"Don't you find difficulty in getting good laying pullets in the fall? What price do you really have to pay?"

"Never have had any trouble yet getting all I want. I buy only thoroughbred stock, because it is more uniform in quality. I pay from 30 to 35 cents per pound live weight for the pullets. This season I may have to pay more, but I think they will sell for more and egg prices ought to average better. I 'scrapped' my egg machines when they were thru laying last spring at an average of 40 cents per pound live weight."

Further conversation developed the fact that he prefers American class varieties and stocks up with only one variety when possible, as it is easier to



Feed For Profits

SHARE the success of thousands of other experienced poultry raisers who are turning puzzling problems of feeding into pleasing profits with Conservation Scratch, Krause Mash and Conservation Chick and Developer Feeds.

Conservation Scratch fills the demand for an economical, wholesome, clean grained scratch feed that gives your fowls energy and strength. Krause Mash supplies the necessary balance of egg-making elements, is rich in meat-producing nutrients and never varies in quality. Conservation Chick and Developer Feeds build downy chicks to sturdy plump broilers in record time.

Badger Feeds For Poultry Needs

You can be certain of profitable results with Badger Poultry Feeds. They are formulated by experts, tested and guaranteed by one of the largest feed manufacturers in the country. Profit by the experience of thousands of other successful poultry raisers and put your fowls on Badger Feeds.

Send for free samples of Conservation Scratch, Krause Mash, Conservation Chick and Developer Feeds, and other Badger Feeds. If your dealer cannot supply you immediately with Badger Feeds, give us his name and we will see that you get them.



CHAS. A. KRAUSE MILLING CO., Milwaukee, Wis.
 Manufacturers of the Badger Line of Farm and Poultry Feeds

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Imperial Strain White Houdans

Stock Chicks Eggs

from Chicago Coliseum and Madison Square Garden Winners. Won at Madison Square Garden Show, 1917-18: 1st and 3rd Cock, 2nd, 3rd, 4th and 5th Hen, 1st and 2nd Cockerel, 1st, 2nd and 3rd Pullet and 1st Pen.

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Quality White Plymouth Rocks

Strong and vigorous chicks that will do their bit. Do your bit by sending us your order and help win the war. 25 for \$5, 50 for \$10, 100 for \$19. Chicks and eggs from exhibition pens, also several fine cockerels for sale. Orders booked for future delivery for 25 percent of order. Give us your order now and you will not be disappointed by not being able to get them later, as the supply will be short this season.

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STRONG LIGHT, SPRINGY STEEL

UNIT cheapest, most durable, SYSTEM sanitary poultry fences.

Bolt together for rigid corner, gate or end posts. Use units singly for line posts or Carbo Drive Posts. First cost of post less than wood. Made any height. Write for Booklet Today.

CARBO STEEL POST CO. CHICAGO HEIGHTS, ILL.

Halbach's White Plymouth Rocks "The Proven Leaders"

Booking orders now for early fall and winter shows. Large Catalog 20 cents.
 H. W. HALBACH & SONS Route 1 WATERFORD, WISCONSIN

OWEN FARMS

**S. C. R. I. Reds
Buff Orpingtons
White Ply. Rocks
& S. C. W. Leghorns**

are noted for unexcelled utility and show qualities. Each year the average quality of the flocks and the individual quality of the best specimens has been raised. Careful line-breeding has brought results that would have been impossible to produce in any other way.

The unequalled records of my birds at Madison Square Garden, New York; Boston, Chicago, New York Palace, Syracuse, Minneapolis, and other leading shows, are given in full in my printed matter—that is yours for the asking.

Hundreds of utility flocks all over the country are pure Owen Farms blood because their owners found by careful comparison that the perfect health and vitality possessed by Owen Farms line-bred birds made them "Live, grow, lay and pay" better than other strains they had tried.

Half Price Stock Sale

of quality has been unusually popular this year. A few more fine males at \$12.50, \$17.50 and \$25.00 each. Females at \$5.00, \$7.50 and \$10.00 each. Your chance to secure real breeders for next year at low prices.

A Special Snap!

100 Red hens at \$3.00 each.
100 Leghorn hens at \$2.00 each.

Early Chicks

As usual, I have them. Big, well-matured early cockerels and pullets for your Fall Shows. Birds that will win for you and make superb breeders. Cockerels \$10.00 each upwards and pullets \$7.50 each upwards. Exceptional quality at any price you wish to pay. Let me know your show and I will tell you the right price to pay to insure winning.

Owen Farms Service

It has always given me great pleasure to have prospective customers write me complete data regarding their requirements, and ask for my advice. Have gladly given them the results of my many years experience, and helped to make their investment profitable.

Every inquiry will have my personal attention, and every order will be selected for you by either Mr. Davey or the writer. Our long experience is at your service.

OWEN FARMS

Office at 107 William St.
Vineyard Haven, Mass.

Maurice F. Delano
Proprietor

Frank H. Davey
Superintendent

feed so as to control the results in eggs when one is feeding only one kind of pullets.

This small plant egg farming on the "let George do it" plan struck us as sufficiently interesting to pass along to our readers. Perhaps there are many who are not so situated as to be able to keep poultry the year around or to raise chickens, but would welcome this plan for winter egg production. No male birds are kept, so all eggs are "virgin" or non-fertile eggs and as such bring a few cents premium per dozen. Another interesting fact is that this poultryman regularly water-glasses a good many dozens of eggs in the early spring and so has a supply to carry him thru and a small surplus to sell to neighbors when the poultry houses are empty.

The plan is not new, many have practiced it successfully, and some have carried it out on a large scale. Half grown pullets are now being offered at attractive prices and from present indications there will be some bargain offerings of well-matured pullets during the coming fall months.

Everybody with a poultry house can winter a war flock of laying pullets, even if it is found more convenient to let "George" do the chicken raising.

DR. WOODS' NOTES AND COMMENT

Before green apples blush,
Before green nuts embrown,
Why, one day in the country
Is worth a month in town.
—Rossetti.

Senator Weeks, of Massachusetts, urges that all business men "get together and practice co-operation and co-ordination" and says: "I am not a pessimist, but I am uneasy about the conditions after this war. *We shall never return to the conditions that prevailed before the war.*"

It is too early yet for congratulations on the 1918 season crops. Crop estimates made long before harvest are a lot like "counting chickens before they are hatched." We have had a peculiar spring and summer thus far. May, in our section, was very dry, with a good deal of "dogday weather," a good deal of pasture, hay and new grassland was dried up. The latter part of June was cold and wet. Summer was ushered in, on June 21, by a downright freeze between 1 and 5 a. m., the mercury falling to 28 in some places and 32 degrees in many. Much corn and many gardens were ruined and early potatoes badly injured. We saved our plants by keeping bonfires burning all over the place all night. It was some job, but we did not have anything frozen and only a few stalks of corn touched at the tips a bit. Our potatoes, nearly three-fourths of an acre of them, were in full bloom at the time of the freeze and the tops have not shown any ill effects. Many of the neighbors had their potatoes frozen off right down to the ground. Of course, the full extent of the damage cannot be told until crops are harvested. Our Baldwin trees are full of apples, and, so



Slash Go Prices Just for a Few Weeks on My Very Choicest Stock

Those of you who have been promising yourself a start with ANCONAS—don't delay!

Learn about these splendid producers of generous-sized, white eggs—read of their wonderful wins at the greatest poultry shows—study their snappy, handsome appearance and long, clean record!

AND THEN—buy them NOW at special summer clearance prices. Drop me a line for the Summer Sale Sheet. Please say whether or not you have my catalog.

H. CECIL SHEPPARD
Box X2
BEREA - - - OHIO

far as we can see, the only effect the freeze had was to put a deep red blush on the small green apples. As the fruit is growing well and very few apples have dropped, we do not believe much damage was done. Weather has been too cold thus far for good growth of corn, but, all things considered, the growing stuff seems to be doing well, all except the grass. We shall have to buy our winter's supply of hay. Peas and beans are looking fine. We had our first Nott's Excelsior peas on June 17 and have been getting a fine supply for home use ever since, with promise of yield on successive plantings for some time yet. It certainly paid to stay up all night and keep the bonfires burning during the June freeze.

* * *

Chickens are growing fine. We have had excellent luck allowing Black Langshans and White Rocks to run together on same range. The little Langshans look so much like crows that they help to keep hawks away from the flock.

* * *

The grain and feed supply is still a big problem and probably will continue to be. Local shortages are frequent, freight is uncertain and the new rates are all against the producer. Also definite percentages of increase in freight rates were stated, the rule in practice seems to be "all the traffic will bear," and sometimes more. Where we had a rate of 7 cents per 100 pounds on grain and feeds in carlots, the rate has been jumped to 16½ cents per 100 pounds. Feed and grain prices in surrounding towns show wide variations, often a difference of from 30 cents to 60 cents a 100-pound bag. We have been assured that after July 1 the carlot price on mixed feeds (wheat mill feeds) at Boston points would be fixed at \$26.88 per ton, and that this price allowed for the new freight rates and a reasonable profit for the millers, but we are still required to pay from \$48 to \$60 per ton for such feeds. Somebody is making a "whale of a profit." One elevator has been requiring customers to buy an equal quantity of corn meal or stock feed mixtures with all wheat feeds.

* * *

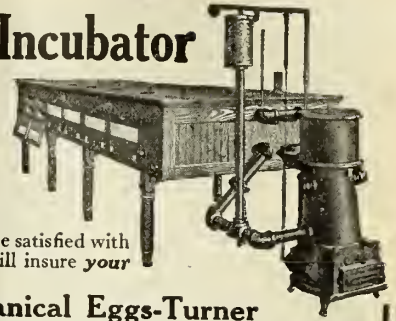
If the flocks have not been culled, this work should be done at once. Weed out and sell, or can, all fat old hens and chickens which will not be needed for home use or for breeding and laying stock. We would not advise wintering anything older than yearlings except in case of valuable breeding birds. Very few two-year-olds or three-year-olds can be depended on to produce eggs enough to pay their keep thru fall and winter. Separate the cockerels from the pullets and give the latter good green range. Hens that are intended for wintering should have well-shaded green range from now on until after the molt, and will be better off if male birds are not permitted to run with them. All of our yearling hens have been put on good woodland range, where they can pick up a large part of their living.

* * *

Now is the time to clean up, disinfect and overhaul all poultry buildings. Start repairs on buildings and keep at the work until everything is "ship-shape" before time to house the flocks in the fall.

NEWTOWN Giant Incubator

Hatches the Most Chicks—
The Best Chicks—
With Least Labor—
And at Lowest Cost—



You cannot ask or get more; you should not be satisfied with less. Newtown efficiency and economy will insure your success.

The Newtown Mechanical Eggs-Turner

is a big labor-saver. Where other large incubators are used, much time must be spent in turning the eggs twice daily. The *Newtown Mechanical Eggs-Turner* has changed this. Take ten seconds to turn the crank and all eggs in the machine will be turned better than you can turn them by hand. No eggs are cracked or dropped and broken. No "bunching" on the trays.

Read this Report from Michigan Agr. College

"Relative to our hatches with the Newtown Giant Incubator. We have brought off three in all. The first gave us 92% of the fertile eggs, second 91%, and the third a little better than 92%.

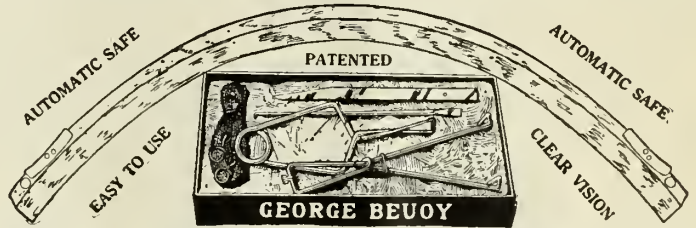
"The incubator gives us chicks that can be shipped by parcel post as far as Texas, W. Colorado and Northern Minnesota. The greatest number found dead,—in shipments ranging from 200 to 400 chicks,—no more than four. We are very enthusiastic about the Newtown Giant."

(Signed) C. H. BURGESS, Assoc. Prof. of Poultry Husbandry.

If you demand highest efficiency plus economy and certainty, write for complete Newtown catalog today. Please state the size incubator in which you are interested. Remember, it is to your advantage to place your order early.

NEWTOWN GIANT INCUBATOR CORP'N
21 Warsaw Street
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GEO. BEUOY CAPON SET No. 20



CAPON Set No. 20—Contains—Automatic Remover \$2.50, Automatic Spreader \$2.25, Beuoy Capon BOW, \$1.00 Long Keen Knife 50¢, Combined Hook-Probe 50¢, Big Illustrated Capon Book that explains each step in the operation of making capons and everything else you will ever want to know about capons 50¢ Total value \$7.25, Ordered all at one time in the

No. 20 set as above Prepaid to you for.....\$5.50

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Capon Tool price list Free.

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Barred Plymouth Rocks

Are Known the World Over



They have gone to South Africa, Australia, Hawaiian Islands, Alaska, Canada and Mexico. Why not to you?

Circular Free.

O. F. MITTENDORFF Box F LINCOLN, ILLINOIS

LAST CHANCE ON SUMMER SALE

You know the quality of Wilburtha Birds. They are winners at the Big Shows and heavy layers at the Egg Laying Contests. We still have a few top-notch breeders from our 1918 pens. Stock now at reduced prices.

S. C. White Leghorns

White Plymouth Rocks

S. C. Rhode Island Reds

C. J. FISK, Owner

Write fully and we will give your needs individual attention.
Wilburtha Poultry Farms

M. L. CHAPMAN, Mgr.

27 River Road, Trenton Junction, New Jersey

STILES' COLORED Leg Bands

TELL THE AGE OF POULTRY

Identify birds as far as you can distinguish colors. Made in Red, white, blue, green, black and yellow.

Mention variety when ordering.



SPECIAL BRAND—Single coil. Made of lighter material and have less lap than Economy brand. 25 for 25c; 50-50c; 100-85c; 250-\$2.00; 500-\$3.50, postpaid.



ECONOMY BRAND—Single coil of highest grade. 12 for 15c; 25-30c; 50-55c; 100-95c; 250 \$2.30; 500-\$4.50, postpaid.



ROYAL BRAND—Double coil; Best of all. 12 for 20c; 25-35c; 50-65c; 100-\$1.20. 250-\$2.75; 500-\$5.00, Post-paid.



THE VICTOR BAND Large printed numbers, bright clear colors—Red, white, blue, green, yellow. Made of celluloid and aluminum. Adjustable. 12 for 35c; 25-65c; 50-\$1.25; 100-\$2.25; 200-\$4.00; **Victor Sealed Band**—12 for 40c; 25-75c; 50-\$1.50; 100-\$2.75. Pliers 60 cents.

ALUMINUM BANDS



THE CAPITAL BAND Has raised figures. Adjustable, strong, smooth edges. 12-15c. 25-25c; 50-40c; 100-65c; 250-\$1.50, 500-\$2.75, 1000-\$5.25.



THE FAVORITE BAND Raised figures, locks with double clinches. Prices, 12 for 15c. 25-25c; 50-40c; 100-75c; 250-\$1.75. 500-\$3.00.



The Commercial Sealed Band—Aluminum, raised figures. Sealed with soft metal rivet. 25 for 35c; 50-65c; 100-\$1.10; 250-\$2.60; 500-\$5.00. Pliers 60c.

Poultry Cuts New designs, a complete line. Catalog Sent Free.

Favorite Poultry Punch, Price 25 cents.

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Department 6 COLUMBUS, OHIO



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FOR BREEDERS OF

S. C. W. Leghorns and Barred Rocks

Would you like to have a fine catalog of your own, handsomely illustrated in colors, but find the cost too much? If so, send for a sample and prices of my special catalog in colors, mentioning which of above breeds you raise. Prices from as low as \$7 up. Very prompt service.

THOMAS NASH, 523 Plymouth Ct., Chicago, Ill.

Single Comb

White Leghorns

Yearling and two year hens. If you are looking for good breeding stock that are laying heavy now, at very reasonable prices, write

PURITAN POULTRY FARM Rt. 2 ZANESVILLE, OHIO

TEETH AND TONIC FOR HENS



PEARL GRIT the "Double Purpose Grit" keeps hens healthy and makethem lay. It grinds and prepares the food for digestion and supplies the necessary shell-making and egg-building elements. Write for free booklet. THE OHIO MARBLE CO. 74 Cleveland St. Piqua, Ohio



CRYS-CO GRIT (PETRIFFIED SHELL) 99% Pure Carbonate of Lime. More eggs, harder shells, healthier hens, cost 1 cent per pound. Ask your dealer, look for trademark, write for booklet. W. A. REUBEN & CO., St. Louis, Mo.

This month we haul out our cordwood, cut last winter, and have it sawed into stove lengths and store away a full supply for heating and cooking purposes for the coming year. Ordinarily the work is done a few weeks earlier, but the cold season and late rains set us back nearly a month. We aim to get out the wood before the gypsy moths deposit their eggs. We note that in some cities the fuel administration has forbidden the use of coal until after December 1 and are certainly glad that we do not have to depend on coal on the farm. Wood is high in price compared with prices before the war, but it is not bringing any more than it is worth; in fact, as compared with coal, good hardwood is really selling cheap.

* * *

This has been a busy summer on the farm; often we have not been off the place for weeks at a time except to put in an hour or so hauling grain, feed, or other supplies. City friends ask: "Don't you get lonesome? How do you stand it with no amusements?" Well, when one is busy from before sunup until after sunset, the need of "amusements" is not very great. We do not need "necessities" of the "tired business man" who seeks relaxation in the cabaret, the theater or the "movie" show. Nature furnishes us with a continuous performance of movies and variety thruout all our waking hours, something to please both eyes and ears while at work or at rest. It does make us weary when some bore tries to sympathize with us because we do not live in the city. The town has some advantages, it is true, but they are as nothing when compared with the advantages of country living and the freedom of the open air in the fields and woods. The only time we get really lonesome is when we have to put in a few days in the crowded city, cramped in by towering buildings and jostled by hurrying crowds, where most men are strangers and all are swarming like ants in a disturbed ant hill. We can enjoy a day, or at times a week, in town, but the greatest pleasure of the visit is that of getting back home to the farm. Sixteen hours may seem a long and wearisome workday on the farm, the work may be difficult and back-breaking, but it has advantages over eight hours of city work combined with eight hours of seeking to find an excuse for living, and eight hours of restless sleep in a stuffy room in a block of overheated brick and stone. We wouldn't swap our outdoor sleeping quarters down on the farm for the best suite of rooms in a city hotel, that is if we had to occupy the latter.

* * *

"Optimist" in the Poultry World (England) says: "Nature abhors a vacuum—especially in the stomach of a fowl. It is well to understand this fact once and for all. One cannot extract oil out of the east wind, altho it is possible to extract nitrogen out of the air. A hen that is half-fed does not produce half an egg; she produces none at all."

"When I cut down rations one-half I found that the laying hens cut down the egg supply more than one-half, and if I had not speedily restored the full amount of food I should not have got any eggs. What I actually did achieve by cutting down their rations for ten days was to throw some of the birds into an early molt and lose some three weeks' supply of eggs. It was five weeks or so before I got them into their stride again, and I made a vow that never again would I experiment in the direction of underfeeding the birds."

"I remember Tom Barron saying that a great deal of nonsense was written about over-

Easy Way to Get Eggs Summer or Winter FEED "OCULUM"

"I fed 'OCULUM' 24 days, eggs increased from 8 to 42 a day."—H. C. MILLER, Akron, Ohio, Judge Am. Poultry Assn.

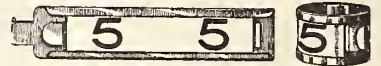
Sold the world over for years.

O. K.'d by experts and Poultry Journals. Bottles 50c and \$1.00; pint, \$2.00, delivered. "OCULUM" booklet tells how to rout lice and disease, hasten moult, save feed, cut labor. Worth \$1.00, but IT'S FREE. This Journal O. K.'s us.

"OCULUM" CO., Box B, SALEM, VA.

BOURNE LEG BANDS

Are Easy to Use. They are made with large numbers printed on colored celluloid held in an aluminum band.



They are easily read from a distance. Numbers up to 300 are printed on white, red, green, cerise, blue, yellow and pink celluloid. From 301 to 1000 on white only. Band will withstand weather and water. Sizes for all breeds; also for pigeons.

BOURNE MFG. CO.

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MELROSE, MASS.

Riley's White Wyandottes



SUMMER SALE: Fine breeders as well as exhibition birds to be sold at remarkably low prices. Need room for growing youngsters. Write your wants and for catalog.

H. J. RILEY, Box A, Bryan, O.

Brown Anconas

A New Variety

Send for Catalog

I. H. MURRAY
11827 Longwood Drive, Chicago, Ill.



Langshans

The Best

Summer Prices. New Catalog.

M. S. Barker, R. F. D. No. 1, Thorntown, Ind.

STANDARD FOWLS.

The Recognized Headquarters for High Class Poultry. Ducks, Geese, Guinea, Games, Turkeys, Pheasants, Yokohamas, Peafowls, Bantams. All standard varieties. Stock for sale. Satisfaction guaranteed. F. C. WILBERT & CO., Grand Rapids, Mich.

Single Comb Black Minorcas

SUMMER REDUCTION SALE of surplus breeders. From the Chicago winners 1916-17-18. From June 1st to Sept. 1st at one-half the regular prices. ROYAL POULTRY FARM Box 500 OSSIAN, IND.

PERRY'S Rose Comb WHITE LEGHORNS win 1st Chicago, National Club meeting, etc. Bred 15 years for eggs and beauty. Bargains in fancy show cocks and hens, also fine young stock in Sept. Safe arrival and reasonable satisfaction guaranteed. LOUIS H. PERRY Route 8 CLAY, N.Y.

Pure Bred Day-Old Chix

Reds, Rocks, Wyandottes, Orpingtons, Anconas and Leghorns. Reduced prices. Write for catalog WOLF HATCHING & BREEDING CO., Dept. B, Gibsonburg, O

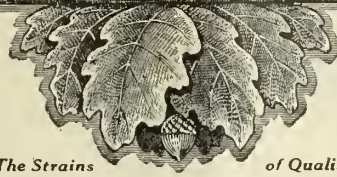
COLLINS OAT SPROUTER All-metal, fireless, safe, practical, \$3, \$4 and \$8 sizes, delivered. Exercise and Feeder attachment only 60c with Sprouter. Alone by parcel post 60c. Send for circulars. Dealers and agents wanted. W. H. COLLINS 70-0 Harrison St. New York

feeding, and his experience had been that a great deal more harm was done by under-feeding. I am perfectly sure he was right. So far as pullets are concerned, it is practically impossible to overfeed them during the laying season. Older hens may be overfed, but they very rarely are. Fowls, like humans and other sorts of live stock, vary in their liability to obesity. Some hens run to fat just as dogs, horses and men do. It is not the quantity that is eaten that fattens; it is entirely the nature of the animal. But when one is talking of heavy-laying pullets let us be assured that they must be fed, and well fed. Give them as much as they can eat while they are producing three, four, five or six eggs per week. And be sure that a fair proportion of it is animal food—either meat, fish, or blood. A laying hen is a wonderful bird, but she cannot perform miracles. Bricks without straw is an easy proposition compared with eggs without food. Out of nothing, nothing comes.” * * *

Several of our big factories engaged in making war supplies at a very substantial profit—in some cases, it would seem, more than substantial—have been introducing a lecture feature for employees. Lately this feature seems to be taking on the appearance of propaganda. One of the lecturers is telling the workmen about our boys in France, how they put in long hours in the mud and filth of the trenches and receive for their services only \$1 a day, and he urges that the workmen should not demand high wages for their eight hours' work in a comfortable factory where there is little or no risk, and that they ought to be willing to work for \$1 a day. No one has a higher appreciation of "our boys over there" than we have. Members of our family are "over there," and we do not believe that there is anything too good for our boys in France. However, we feel that they would be among the first to resent this sort of lecturing to our American workmen. It is the workingmen who are paying war taxes, buying Liberty Bonds, buying Thrift Stamps and War-Savings Stamps, subscribing to the funds for the Red Cross, the Y. M. C. A., the K. of C., etc. It is money found in this way which equips, feeds and pays our army and navy, supplies comforts, entertainment and necessities for the fighting men, and takes care of them when sick or wounded, and may provide funds for their aid after the war, as well as aid to the fighting man's family at the present time. It is a well-known fact that it takes many men working at home to keep one fighting man in the trenches or on our ships. The workingman may be getting war wages, but he is paying war prices for the maintenance of his family, he has to pay his own expenses and also find a surplus to help pay and provide for the men who are so bravely striving to win the war for democracy. Putting the workingman on a "dollar a day"—or even "a dollar a day and found"—basis, would not help matters any or benefit our brave boys who are giving their lives for the welfare of the world, but lower wages for the workingmen would materially swell the war profits of the profiteers. * * *

In the New Zealand two years' test, in which two pens of Leghorns received a whole wheat ration and the other two pens no wheat at all, the results appear to show that wheat is not essential to egg production. The wheat-fed hens produced 239 and 243 eggs per bird and the non-wheat hens produced 238 and 241 eggs per bird.

WALHALLA



Buff Orpingtons

Buff Minorcas

The Strains of Quality

One of Your Last Chances of the Year

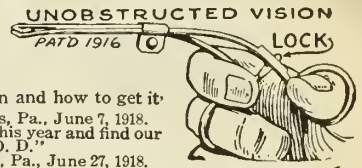
to secure WALHALLA STRAINS high class exhibition and breeding birds at reduced prices. Engage your fall and winter show birds, also your next year's breeders NOW at HALF PRICE. You will appreciate it next winter when prices have doubled.

Our Early Chicks Are Bigger AND Better Than Ever This Year

We have for the season's trade the grandest lot of early hatched cockerels and pullets we ever had on the farm; they are bred from our champions, most of them are now up to standard weight, also have type and color. These are regular ribbon pullers and will make superb breeders. If you have difficulty in winning the desired prizes at your County or State Fair, get some of them and you will not be disappointed. Write us your wants, and we will quote you prices in young or old stock that will please you and insure your winning.

WALHALLA POULTRY FARM EDWARD F. SCHMIDT, Mgr. OSCODA, MICH.

CAPONS



If interested in better table poultry, greater production and how to get it read the following:
 "We are making several hundred Cambridge Springs, Pa., June 7, 1918. Leghorn capons this year and find our Removers are too large to do good work. Send yours C. O. D."
TWENTY DAYS LATER. Cambridge Springs, Pa., June 27, 1918.
 "Have worked 209 Leghorns, lost only six, all of which were either too old or weaklings. I have never done caponizing until this season and find with your tools I can remove both organs from one incision easily, and do twenty birds an hour." (Signed) PAUL S. PATTERSON, Mgr.
 Hundreds that have failed with old styled hand-in-the-way, clumsy antiquated types, succeed easily with my Safety-locking unobstructed vision, easy-to-use design. Start right. Cheapest in the end. Lasts a lifetime and then some. Full set and instructions, \$5; Removers alone, \$3.50, User agents wanted. Six cents, stamps, bring full particulars, also feeding and housing help.
S. K. BURDIN, Suite 16, 104 STIBBARD AVE., TORONTO, ONT.

USE KEY-RING-O LEG BANDS



Simple, scientific and absolutely satisfactory. Used by the U. S. Government, by practically every Agricultural College, and by leading Poultry Raisers everywhere.

Made in 10 Colors — 6 Sizes
 Black, White, Dark Blue, Pink, Light Blue, Red, Yellow, Green, Purple and Garnet.

	12	25	50	100	250
No. 3—Baby Chick	10c	20c	35c	50c	\$1.15
No. 1—Pigeon	10c	20c	35c	55c	1.25
No. 5—Bantam	15c	25c	45c	75c	1.75
No. 2—Mediterranean	15c	25c	45c	80c	1.85
No. 4—American	15c	30c	50c	85c	2.00
No. 6—Asiatic	15c	30c	50c	90c	2.15
No. 7—Turkey	15c	30c	50c	90c	2.15

Special price on larger quantity.
 Send 14c and we will immediately mail you 15 Bands. State size and color wanted.
C. H. GORDINIER Dept. J. TROY, NEW YORK

Single TOMPKINS' RHODE ISLAND REDS Rose

Big sale of breeding stock now on. 400 birds for sale at one-half their actual value that will fit any breeding pen for another season's work. Eggs from my best pens are now one-half price and still time to hatch the late show winners this month. Let me know your wants fully and I will be pleased to quote you on a single bird, trio or pen. Address
HAROLD TOMPKINS Box A CONCORD, MASS.

BUFF ROCKS WON EVERY FIRST PRIZE OFFERED

at Kansas City Show. Pronounced by Judge Drenstedt best class he ever saw. First prize winners at Madison Sq. Garden, N. Y.; Palace, Chicago; Kansas City; World's Fair. Two pullets at Mountain Grove laid 229 and 201 eggs each. Get my catalog. **C. E. BAKER, Box A, Abilene, Kas.**

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I offer many fine birds out of our matings at greatly reduced prices. None better. Many winners and also heavy layers. Eggs now \$2.50 and \$1.50 a setting. Large circular.
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Blue Ribbon Growing Mash

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Just what you need to produce fat, juicy broilers. Ask your dealer for a trial bag."

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A perfect balanced hard grain ration. Just the right size for growing birds.

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Hens
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Joram's
Lice Rid
Keeps Them
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One Size
3 Ounce 50 Cts.

Directions on
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THIS STUFF WORKS!

What poultry keeper can say that his flock is free from lice? These abominable vermin take all the pleasure and profit out of poultry keeping—they make the hen uncomfortable and mopey—they kill the chicks—they even kill the grown hens. It has been said by an authority that lice are responsible for more dead birds than any other enemy of poultry.

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It is a remedy for lice that never fails to work. It kills lice, and it prevents lice from getting onto the birds afterwards. JORAM'S LICE RID will kill HEAD LICE on CHICKS.

EASILY APPLIED

JORAM'S LICE RID is not like the other lice killers on the market—you KNOW they don't work—but JORAM'S goes after them in a "DIFFERENT" way. Vermin have a "base" of operations, just like submarines. You apply JORAM'S to the "base"—and the lice never move from there. That's where they die.

JORAM'S LICE RID IS ABSOLUTELY GUARANTEED to do the work, if directions are followed; or money refunded.

CHEAP It costs less than 1 cent per bird to apply JORAM'S LICE RID, and that's the end of it. You need this key to success in poultry raising. You need it now. One size, 3 ounces for 50 cents.

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S. C. Buff Orpingtons

Winners at Greater Chicago, Ill. State, Peoria, Quincy, Monmouth, etc.

Eggs Half Price

Special Sale on Breeders. If you want quality at ridiculously low prices, write me.

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Natural Hen Incubator \$3



No freight to pay. Actual hen controls everything. No lamp, no costly mistakes. Best hatcher in the world. Over 850,000 in use.

J. M. Peyle, Ill., writes: "It is the best thing I ever saw for hatching chicks."

Another: "I got 507 chicks from 640 untested eggs."

Thousands of other testimonials. Agents Wanted.

To reach the million mark in 1918 we will send you a Special Introductory Offer with our Free Catalogue.

Natural Hen Incubator Co., Sta. H, Dept. 4, Los Angeles, Cal.

Brookside White Wyandottes

American Laying Contest Winners.

Eggs half price; hens and pullets at bargain prices. Brookside Farm, G. W. Schottman, Prop., Montrose, Ill.

A low-studded poultry house is usually a pretty hot place in August. Keep the windows and doors open, using screens of one-inch mesh poultry wire. Cool, comfortable quarters are essential to the welfare of the birds.

* * *

"Poultry" (England) says: "That many fowls which are allowed to perch do develop crooked breastbones is perfectly true. Yet it is equally true that large numbers of fowls which are never permitted to perch are similarly affected! The cause is mainly a matter of constitution. And many crooked-breasted fowls would have had the deformity no matter whether they roosted on perches or on the ground. Nature teaches a fowl that when its wings are strong enough to lift its body off the ground it had better seek higher sleeping quarters."

True for you, *Poultry*. That has been our belief for a long time. We have a fine bunch of White Rock and Black Langshan chickens which have been taking to the roosts at night since before their hen mothers weaned them. Their keels are straight and true, with never a "crook" in them.

* * *

You know how the general run of visitors to the farm usually tell one what ought to be done and how it should be done—as if one did not know. Well, here's a case that is different. The last of June, Harry Lamon, senior poultryman of the U. S. Department of Agriculture, happened in on us for part of a day. He had never been here before, but assured us before he left that "I'm coming back to stay longer." He repeated that statement several times. Of course, he went all over the place, saw everything and asked a lot of question. Then he said: "It's great! I'm coming back soon. You are doing just what I would do in your place. You've got a real home here and you are going about it right. Stick to it." Now, Friend Lamon has been up and down this country a good deal, so that what he says carries more weight than the general run of comment.

* * *

Looks as if all the editors, writers, poultry judges, etc., were about to quit keeping poultry and go to work for Uncle Sam's poultry husbandry department. Dr. N. W. Sanborn has recently joined the forces and taken over the work of increasing poultry production in Florida. The latest advice is that that dusty miller, poultry judge, and all-around poultry fan, D. Lincoln Orr, has joined the ranks of Uncle Sam's poultry husbandmen. "Everybody's doin' it!" As "Link" says: "What's the use?"

* * *

Tom Barron has declared that eggs saved the situation in Lancashire, England, where undoubtedly there would have been food riots at one time if the poultry keepers had not been able to supply the workers with eggs. Mr. Barron says: "Tho a hen is a small thing, 25 hens will produce more value in money than a cow."

WILSON CELEBRATED MILLS.



No. 1 Mill for grinding Dry Bones, Oyster Shells, Grit and Grain for poultry.
Phosphate Mills, Green Bone and Clover Cutters, Feed Mixers for Poultry Feeding, Mills of all sizes for all purposes. Hand and power.
Write for illustrated Catalogue and prices.
WILSON BROS.
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WILL MAKE THEM LAY

A Natural Food Product

Made from the choicest of buttermilk to which has been added vegetable oil to form a proper balance of carbohydrates and protein, and is further acidified to give it germ-destroying properties.

For Your Breeding Birds

Gives them extraordinary vitality to lay maximum number fertile eggs.

For Baby Chicks

Produces big, husky, lively chicks, free from white diarrhoea and other diseases.

For Fattening Broilers

Puts them in a plump condition and a finish that tops the market. The cost is slight—results are big—satisfaction guaranteed. Trial order \$2. Five gallons \$7.50.

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383 Meriden Creamery Bldg., Kansas City, Mo.
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THE FINEST EGG CARTON MADE

The Cut-in-Seal

IS OUR OWN INVENTION

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SAMPLES FREE

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The No-Trouble, Sure-Death Poultry Lice Exterminator

Different from and superior to all others. Not necessary to handle each bird separately to dust or grease. Merely hang a bottle of LICECIL near the roosts as directed. A lice killing gas or vapor is thrown off constantly—works all the time—no injury to the fowls—sure death to mites and lice.

Price—delivered—One bottle, 75c.; Three bottles, \$2. Order today. Address nearest office. Circular free.

LECECIL MFG. CO.
Box 35, Germantown Phila., Penna. Box 35, Quincy Illinois

Dr. Hess Instant Louse Killer

Kills lice on poultry and stock. Guaranteed. See your poultry supply dealer.

Dr. Hess & Clark Ashland, Ohio

Everlay Brown Leghorns

Eggs half price. Special bargains in stock. America's greatest winning-laying strain.

H. V. TORMOHLN Box 2 PORTLAND, IND.

Horticulture for Poultry Keepers

Conducted by Thos. F. Rigg, Iowa Falls, Iowa.

MY PREDICTION that we were going to have a dry, hot summer was anything but correct. We have had an exceedingly wet and cool season so far. Once 2½ inches of rain fell in 24 hours. A week later 4½ inches of rain fell in 24 hours. Farm crops have been greatly damaged. The corn crop will be cut at least one-fifth. We will not have any apples, plums or cherries. The trees were loaded, but the severe rains and cool weather caused all fruit to fall. The gooseberries and currants were a full crop. Gardens here have also suffered. Peas all went down, the continued wet weather rotting the vines even when they were brushed. Potato tops are immense and I think the crop will be heavy. So it goes. But we have an abundance of moisture stored up. The apple and other fruit trees never looked so green and robust at this time of year. We ought to have a big crop next year, for conditions for the setting of fruit buds are ideal.

The bees have been unable to work for days, and the nectar in the clovers and flowers has been destroyed by the rains.

* * *

What kind of a cross would an Ancona male make on a Houdan hen? Do you think the eggs would have white shells and what about the size and number of eggs? If I ever try this cross I would use the Mottled Houdan. What do you think of the White Houdan?

How large a limb of an apple or peach tree can you bud or graft? I am interested to know about this budding and grafting.

Is the McIntosh apple red and sweet?

Ohio. J. M. Leidigh.

Why cross the Ancona on the Houdan? You would not have a fowl superior to either of the breeds so used. You would not get a better layer than the Ancona and surely would get fowls inferior to the Houdan as a market fowl. Eggs from such a cross would be white shelled and no doubt larger than those produced by the Ancona. The White Houdan is a beautiful and useful fowl. I prefer the Mottled Houdan.

In bud working a tree, quite small limbs should be selected. You can insert scions into a large limb. Of course the limb which is to take the scions should not be exceedingly large. I like a limb about an inch in diameter to work upon. If the limb is much larger it will be best to put in two to four scions, cutting out all but two when growth starts. The McIntosh is a beautiful red apple. It is not a sweet apple.

* * *

A. M. Hart writes from Ohio that all White Peachblow potatoes in his vicinity blighted badly this season. The season here has been favorable for blight, but I have headed it off by the use of Sulfocide as a spray.

Dr. L. M. Herrington, Pennsylvania, writes:

I have long been interested in your columns in A. P. J. What has pleased me most is your absolute truthfulness. What a tragedy to let a bureau—hunting for railroad fares—induce many hundreds of people to exhaust their resources to reach a certain state and be unable to reach God's country again. In other words, to deceive people into their ruin!

* * *

What do you think of the eastern shore of Maryland, particularly around Berlin, Md., as a country place to live, in regard to climate, etc?

Would it be possible for a person to raise vegetables and fruit enough on say 10 or 20 acres for home use and gradually build up a little poultry business, providing it proved profitable? What do you think of that section as a market for poultry or nearness to same? What would you think a reasonable price for land in that section?

I would have about \$25 a month income, with more later on, and am country bred and have had experience with a garden and poultry and very fond of the work. I was thinking more of a modest living at first, at least, than any big profits.

Pennsylvania. J. A.

There is some good land on the eastern shore of Maryland. It is a pleasant place to live. Nearness to markets, to the seashore and the delightful climate are all valuable assets. It is a splendid section for truck farming and fruit growing. There are some very profitable farms, both general and trucking, around Berlin. Here is located the big and profitable Harrison peach and apple orchards. Good land can be bought in the vicinity of Berlin for \$50 to \$100 an acre. Yes, it is possible for a person to handle 20 acres of ground as you mention. Do not invest in land there or elsewhere until you have made a thoro investigation and personal inspection.

* * *

I would like your opinion as to what to do to save tomato plants from dying. They start withering at the bottom as soon as the tomatoes get to be a fair size. My plants have been doing this way for several years. I have watered them well. I have a large planting this year and if possible would like to save them.

Missouri. Wm. H. White.

Spray the tomato vines with Sulfocide. Keep the vines well up off the ground so that the air circulation beneath them will be good. Of course, after blight once hits a plant no spray material will save it. Do not plant the same ground to tomatoes year after year.

* * *

Our mulberry trees came thru the cold weather and rains all right, and are bearing a great crop of fruit. The birds are certainly enjoying the fruit.

* * *

I have always had a great desire to go to Florida and I see you speak well of some parts of that state. I notice you recommend the



This 45c Can of BUGBEAR will

- keep red mites off 12 hen roosts all summer.
- keep 100 hens free from lice all summer.
- prevent hen manure from soaking into and sticking to 6 roosting platforms.
- drive all lice and mites away from 24 setting hens.
- make a water-proof and decay-proof paint for the bottoms of 6 outdoor brooders.
- prevent rats and mice from gnawing through wood grain bins and floors.
- positively cure Scaly Leg.
- go farther than 2 gallons of the best liquid lice paint.
- never evaporate, harden or lose its strength.

Sold by poultry supply dealers everywhere.

½-lb. can - \$.30
1-lb. can - .45
5-lb. pail - 2.00

We ship direct if no dealer near you.

Send for free booklet on BUGBEAR and its uses. We mail a large sample can upon receipt of 25c and name of your dealer. One application lasts all summer.

The Reilly Company
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PLANTS:
Indianapolis—Minneapolis
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Mills Creek Poultry Farm

offers reduced prices on WHITE WYANDOTTE EGGS and STOCK during July and Aug. Write your wants. MILLS CREEK POULTRY FARM, Eagleville, Ohio W. J. FORREST, Prop.

Barred Rocks

Winners at Dayton, Columbus and Springfield. Write for prices. LEIGH BICKETT, R. R. 9, Xenia, Ohio

Poultry Raisers! "Secrets of Success in Poultry Culture"

is a new book by an expert, giving original, economical methods of great value. Write for full descriptive circular and table of contents.

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Mention the American Poultry Journal when writing to advertisers.

SHOW BIRDS


Sunswick S. C. Buff Orpingtons

Well-grown Cockerels and Pullets for the early Fall Shows—all fine specimens. Also fine Breeding Birds from our 1918 pens. Write fully what you want. We'll give you letter personal attention.

SUNSWICK POULTRY FARM Box J, South Plainfield, N. J.

POORMAN'S 200 EGG STRAINS

THE WORLD'S BEST LAYERS



TRAP NESTED 300 EGG STRAIN

"Lady Alfavata"—301 Eggs

STOCK

from my Improved Laying Strains of White and Barred Plymouth Rocks, White and Buff Orpingtons, Rose and Single Comb Reds, White Wyandottes and 1 S. C. W. Leghorns and your careful attention will mean your success.

MY 18 YEARS

of practical poultry experience has been incorporated into my bred-to-lay strains in such a manner that brings forth unsolicited hundreds of repeat orders from customers of many years' standing. My catalog contains descriptions of my plant by representatives of the leading poultry publications, reports from many of my customers, and also my methods of breeding, care and management. It is fully illustrated and very instructive and will prove to you that my prices on females at \$2.50 and up and on males at \$3.00 and up are very reasonable.

Start right by writing for my instructive catalog today. It has helped others and will undoubtedly help you.

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Shoemaker's Poultry Book and Almanac for 1918

Send for it NOW!



The book has about 200 pages, with many colored plates of fowls true to life. Tells all about chickens, their cost, their care, and diseases and remedies.

It also tells all about Incubators, their prices and operation. All about poultry houses and how to build them. It's an encyclopedia of chickdom. You need it. Only 15 cents. Your money back if not satisfied.



The Globe

EGGS AT HALF PRICE NOW

Send for circular—it contains prices that will interest you and everyone else, and it's free for the asking. There are thousands of the best breeders for the coming season hatched during August and September.

C. C. SHOEMAKER, Box 605, FREEPORT, ILL.

Origin and History of All Breeds of Poultry

Illustrated with reproductions of paintings of 198 Birds in Natural Colors.

This book tells where the breeds originated, how to mate to get best results, etc. Should be in every poultryman's library. A work of art. Price \$1.00.

AMERICAN POULTRY JOURNAL PUB. CO.
623 Plymouth Court Chicago, Illinois

More Haven district for vegetable growing. That is my hobby. I love to grow lettuce, beans, potatoes, strawberries, raspberries, blackberries, and gooseberries. Can you tell me what the land brings per acre and how much money it would take to start at More Haven? Where is it located? How far from Jacksonville? How would it be for poultry raising in More Haven? Would want to raise Light Brahmas.

Ohio.

D. Love.

The More Haven tract of land is situated about 350 miles southwest of Jacksonville. The land was once a lake bottom. It is new land, very light, and when properly fertilized produces great crops of potatoes and other vegetables. Last winter this land was selling at \$40 to \$100 per acre. Of course, you could not raise raspberries, blackberries or gooseberries in Florida. Conditions there are not favorable for the commercial raising of poultry.

It does not require much capital to get started in farming in that section. The land is very easily worked. You need not put up expensive buildings at the start as the climate is genial and such buildings are not needed. Labor is plentiful and cheap in Florida.

* * *

In answer to C. K. Moorran, Colorado: Wheat land in northern South Dakota is selling at \$25 to \$75 per acre. Unimproved wild land can be bought at first named price. The corn lands in Yankton County, of which you speak, are equal in producing power to the best lands in Iowa and Illinois and superior to much land in those states. This Yankton County, (S. D.) land is worth from \$150 to \$300 an acre. The hardy sorts of apples can be successfully raised in most parts of South Dakota.

* * *

I am in poor health and physicians advise me to go to Arizona or New Mexico to live. Which would be the better place to go to raise fruit and poultry and do general farming? Would I have to irrigate the land? What would be the prospect of being able to secure work, such as carpentering, during the fall and winter? Where could I get any other information on the subject?

New Hampshire. Ralph E. Kelley.

There are many large and profitable apple orchards in New Mexico. They are quite widely scattered, owing to the fact that the fruit lands are in comparatively small pockets or tracts. I advise you to look over New Mexico in preference to Arizona if you are to engage in fruit growing. Of course, you will have to irrigate in order to produce crops in either of these states. Write the State Auditor for full information.

* * *

I take great pleasure in reading your writings, especially your stand against the land sharks, as in my business as a painter and decorator I am thoroly acquainted with their tricks of fixing up to sell.

I am writing to ask if you can give me any information in regard to the land and markets at Wilmington, N. C. I am at present employed here at a weekly wage of \$30. My object is to get south, away from these severe winters. I can get employment there and at Jacksonville, Florida, in the shipyards, and at the same wage.

I would not want over ten to twenty acres, the same to be devoted to small fruits and poultry. Would want to work along until I got the place on a basis that it would pay me the same wages as I make now. The work would be nothing new to me, as I was raised on a truck and fruit farm and kept as high as 900 S. C. White Leghorns at one time. I am not looking for any snap or "get rich quick" game. All I want is a home out of the city once more, where I can average \$75 to \$100 a month over expenses and not be continually catering to some would-be boss. There are only my wife and self in the family and we are living in furnished rooms which cost \$7 per week, yet we have managed to save from

"SUNLIGHT"
POULTRY FARM S-C-W LEGHORNS

250 Cockerels

S. C. Wh. Leghorns

3 to 5 months old \$1.25 and up.

HENS One and two year old \$1.00 and \$1.25 each.
Catalog free

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COOPS

Special Sale

Size	Doz.
No. 2 22x12x18	\$4.00
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LEG BANDS

Celluloid and aluminum; sure clinch, 12-15c; 25-25c, 50-35c, 100-60c; state breed. Spiral celluloid, 12-15c, 25-25c, 50-45c, 100-75c; 10 colors. Stevens' "Evergreen"; Oat Sprouter, all metal; sizes. "Savachic" Fountain. Circular for other bands and supplies

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Quality Bred-to-Lay

S. C. W. Leghorns

exclusively. Tell us what you want and get summer prices on all breeding stock. Our catalog is free. Get one.

The Elliott Poultry Farm
Route 7, Box 87, Mansfield, Ohio

Longfield R. C. Reds

Our Summer Sale of surplus breeders ends Sept. 1st. They are now selling at

1/2 PRICE 1/2

An Opportunity — Will You Miss It?
Write for Sale List.

Longfield Poultry Farm Box 321 Bluffton, Ind.



Blatchford's Milk Mash

will mature your backward or late hatched pullets. Grows, matures or fattens.

Blatchford Calf Meal Company
2 1/2 lbs. at 8 weeks! Waukegan Dept. A Illinois

Special Sale of Poultry Supplies

Incubators, Brooders, "Ready Built" Poultry Houses, feed and water dishes, lice killer, disinfectants and supplies of all kinds. Write for regular catalogue and Special Sale Bargain List No. 11.

CYCLE HATCHER CO.
Elmira New York

Result Producing Stock We Have It

Leading varieties Poultry, Pheasants, Dogs, Cavies, Belgian Hares, New Zealand Red, Flemish Giant, Jack Rabbits. All kinds pet stock.

Circular 2c. Write your wants.

BELTO FARMS JAMESTOWN, N. Y.

The Ideal Aluminum Leg Bands

are the acknowledged leaders. 12 for 15c; 25-25c; 50-35c; 100-65c; 250-\$1.50; 500-\$2.75; 1,000-\$5.25. Sample Band Mailed for 2c Stamp.

FRANK MYERS, Mfr. FREEPORT, ILL.

\$10 to \$15 a week from my wages and live comfortably.

Last year we lived in Clarksburg, W. Va., and had about one acre of ground, raised our own garden stuff and bought 100 pullets and hens from May 3 to July 15 and then sold out the first week in January with a profit of \$87.50 over cost of stock and feed, which cost \$4.25 per hundred pounds. My wife is very earnest in regard to poultry and is now taking a course in the American School of Poultry Husbandry, in order to better succeed.

Chas. J. Brodhead.
The land in the vicinity of Wilmington, N. C., is a sandy loam. Here trucking is carried on to a considerable extent. Growers there have a good home market. They cannot successfully compete with the growers in Maryland and Virginia, however. I know just how you feel about getting a home of your own, where you and your wife can be the managers. But I want to caution you to go slowly in this matter. To make an income—net income—equal to the wage you are receiving is a pretty difficult job on 10 to 20 acres of truck land. Why would it not be better to invest your savings in a 160 or 80-acre farm in Virginia, where the climate is mild and pleasant, and where you could raise poultry, fruit, milk and general crops at a profit and where life can be lived at its best? I simply offer this advice because of my interest in your welfare, and because I believe you and your wife are abundantly able to successfully handle such a proposition.

* * *

For years nothing has bothered our black currants. Worms or fungus have not touched them. This season the cat birds are taking the crop. A flock of these birds are feeding on them constantly.

* * *

Would like some advice as to the kind of fruit trees to plant in this climate. I want to put in some cherries, peaches and plums, as well as apples. Our latest frost comes usually between May 1st and 15th, and the earliest in September or October. The altitude is 4,200 feet and this part of New Mexico is very dry, without much irrigation. I would want trees that can stand a good deal of drought, and not bloom before the late killing frosts. New Mexico. C. M. Bueler.

I advise you to plant Delicious and Senator apples. Both of these varieties are late blooming. My Delicious trees bloom ten days later than other winter sorts. The Senator blooms just a few days before Delicious. Try a few Golden Delicious. It, too, is a late bloomer.

* * *

Further reports from the Council Bluffs, Iowa, fruit district are to the effect that all fruits were severely damaged by rain and hail. The apple crop is about ruined. Grapes will not be more than half a crop except in some few sections. The Nebraska apple crop will be exceedingly short. The strawberry crop was practically a failure in the midwest. I have a little less than half a crop and am getting 28 cents a quart box for them now.

* * *

I am in receipt of the following letter from T. M. Simpson, Sullivan, Maine: "I notice your advertisement (in an old AMERICAN POULTRY JOURNAL) of Houdans and White Wyandottes. If you get this letter, would like to know if you have Houdans for sale?"

This shows that an advertisement properly presented in the AMERICAN POULTRY JOURNAL bears results for many years. It is more than fifteen years

Mahogany Russian Orloffs English Redcaps

Foundation Stock personally imported from three best breeders in Europe. A limited amount of young exhibition stock for sale. Exhibition specimens only. Highest bank references.

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E. A. FRANK, Prop. City Office: Broad St. Farm: Kissingbower Road, AUGUSTA, GA.

MIDNIGHT, AUGUST 31

ends positively the greatest bargain sale of the world-famous "ARISTOCRAT" Barred Rocks. Write today for free particulars of this truly Greatest Money Saving Sale. Save Big Money. (Write today.) Watch the date.

W. D. HOLTERMAN, Fancier, Box A, Ft. Wayne, Ind., U.S.A.

LOOK! Baby Chicks, \$10 per 100 up

By PARCEL POST, 97% Live Delivery Guaranteed



- August chicks make February layers and finest broilers. Per 100 Odds and ends.....\$10.00
- S. C. White and S. C. Brown Leghorns..... 12.00
- Barred and White Rocks, R. C. and S. C. Reds, Black Minorcas, Buff Orpingtons, White Wyandottes..... 14.00
- Anconas..... 12.00
- White Orpingtons, Light Brahmas, Buff Rocks, Buff Leghorns..... 16.00
- Tom Barron's Strain White Leghorns, with free feed for one month with each order..... 20.00
- Silver Laced and Columbian Wyandottes, exhibition grade..... 25.00
- Black Orpingtons, White Campines, Speckled Sussex, Buttercups..... 20.00
- Pound size chicks, and excellent breeds, Price right.

Catalog free.

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Guaranteed genuine leather pocketbook.

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Premier Partridge Wyandottes

DISTINCTIVELY INDIVIDUAL and Rouen Ducks \$10

Winners of Highest Honors the world over. During July and August we will sell mated pens consisting of one male and four females for \$15. Trios for \$10. Rufus Red Belgian Hares of quality. Write for prices.

SHEFFIELD FARM H. B. HARK, Mgr. GLENDALE, OHIO

SACRIFICE SALE!

On account of shortage of labor must reduce flock. Will sell 500 choice one and two year old breeding hens for \$1.75 each, \$20 per dozen, \$160 per 100. These hens are from our breeding yards and already have been culled closely. Cocks and cockerels \$2.50 and up; worth double. Eight-week-old pullets \$1.25 each, \$14 per dozen, \$100 per 100. Also older pullets. Our pen was first in North American Laying Contest in May.

FOURCHE MOUNTAIN POULTRY FARM Route 11 CUMMINS RATCLIFFE, Owner Little Rock, Ark.

Sandy's White Orpingtons

THEY'RE A REASON why Sandy's White Orpingtons are so popular with their owners. They lay eggs, and lots of 'em.

- 100 utility hens, 1 and 2-year.....\$2.50
- 200 March and April hatched pullets.....\$2.50 to \$5
- 50 trapped hens, 1-year..... 5.00
- 50 exhibition hens.....\$10 to \$100
- 200 March and April hatched cockerels, \$2.50 to \$5.00
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Send for new illustrated catalog. R. E. SANDY, Box 45, STUART'S DRAFT, VA.

"GOLDEN ROD" BUFF ORPINGTONS

are bred for laying and exhibition qualities, and their twelve years of winning at the National Shows and Egg Laying Contests proves that they are bred right. Write your wants, and for convincing evidence that they are bred right—just what you want.

R. M. SEWARD, R. 1, LEWISTOWN, ILL.

JACOBS' S. C. WHITE ORPINGTONS

A nice bunch of youngsters growing for the fall and winter shows. Write your wants. FRANK W. JACOBS 2027 W. Nichol Ave., ANDERSON, IND.

"Whatglen"
Single Comb
Black Minorcas

have no superiors in the show room or for utility purposes. Our pens are now mated and are the best we have ever owned.

**Stock for Sale
Eggs for Hatching**

from our best matings at most reasonable prices. Write for our free catalog, the finest ever issued in the interests of Black Minorcas.

WHATGLEN FARM
FRANK McGRANN, Prop., Box A, Lancaster, Pa.

HIGHEST SCORE EVER WON
100

Envelopes, 3 1/2 x 6 1/2 inches, an extra strong, thick, smooth, slick, white writing face, and 100 Letterheads, 8 1/2 x 11 inches, heavy, hard, smooth, slick, pure white writing paper, all artistically printed and illustrated with latest new Standard cuts of your breed for only \$1.00. Express charges paid by me. Better printing for the price was never done. No order less than \$1.00 filled. Name your Express office. Cards, tags and egg labels same price as above.

Address, J. R. HUDSON, Hardin Springs, Ky. We have saw samples of Mr. Hudson's printing. It is very nice; he is perfectly honest.—EDITOR.

The "Best Yet"
Aluminum Leg Band

cannot come off. Five sizes, pigeon to turkey. State bred. 12, 15c; 25, 25c; 50, 40c; 100, 75c. Celluloid Leg Bands—Red, Green, Amber, Pink, Black, White, Yellow, Light Blue, Dark Blue. Pigeon and Baby Chick sizes—12, 10c; 25, 20c; 50, 35c; 100, 50c. Poultry sizes, 12, 15c; 25, 30c; 50, 50c; 100, 80c. Circular free.




Aluminum Marker Works, Dept. J, Beaver Falls, Pa.



Colored Big Double Number Poultry and Pigeon Bands. New coil Baby Chick Bands—not numbered. 12 colors. Try the modern way, you will like them. Very efficient. SAMPLES FREE.

ARTHUR P. SPILLER Box A Beverly, Mass.

WOOLERY FARM
American Bred-to-Lay White Orpingtons
MATING LIST FREE
WOOLERY FARM, Box A, Bloomington, Indiana

BUFF ORPINGTONS
CATALOG FREE.
F. A. KAUP GLEN ELLYN, ILL.

BANTAMS America's Finest Bantams. 40 varieties. Game and Ornamental. Shipped on approval. Winners at the largest shows. Stock for sale. Prices reasonable. Cat. 2c. Choice Golden, Silver and Ringneck Pheasants. Pit Games and Fancy Dogs. F. C. WILBERT & CO., Grand Rapids, Mich.



Light Brahmas Stock after
Dark Cornish October 1
JOHN BLANCHARD COLUMBUS, WIS.
S. C. W. LEGHORNS LIGHT BRAHMAS
ROUEN DUCKS

Eggs and Stock of above varieties.
C. C. NYE, R. R. 1, Box A, HARRISTOWN, ILL.

Brown and White Leghorns
200 to 266 egg records. Cocks \$5.00—\$7.50; hens \$3.00 each. Catalog.
W. W. KALP Box 70 POTTSTOWN, PA.

White Orpingtons
Bred from Madison Square winners. Breeders at bargain prices. Write your wants.
Harry Dieken Manville, Illinois

since I was an advertiser in this JOURNAL. I am still getting letters like the above.

If Mr. Simpson will consult the advertising pages of the JOURNAL today he will find the announcements of several reliable Houdan breeders. I have neither stock nor eggs for sale.

* * *

I have a few trees on my back lot at Duncellen, N. J. On one fall pippin apple tree, the ends of the small limbs die off, about six inches to a foot from the end of the limb. This year there seems to be more of them dying than usual. The tree is fifteen years old and bears fine apples. I cannot see anything on the limbs, though I have examined it under the microscope. Can you advise me on this matter thru the A. P. J. or suggest to whom I should apply for advice?
New Jersey. C. C. Dunham.

Looks to me as tho the terminal parts of the branches of this tree have been killed by aphid. The injury may have been done last season, the twigs being so weakened that they could not survive the winter, but did contain enough sap to start growth. Send a few of the twigs to your state horticultural authorities at once. This season we have had an excess of moisture here. Then out came the sun and the thermometer went up to 98 degrees in the shade. The ends of the twigs of my Wealthy apple trees were cooked—turned brown. I cut off the injured parts at once, so no great harm has been done the trees. Had more than 300 quarts of gooseberries thus cooked and new growth of bushes killed back from two to four inches.

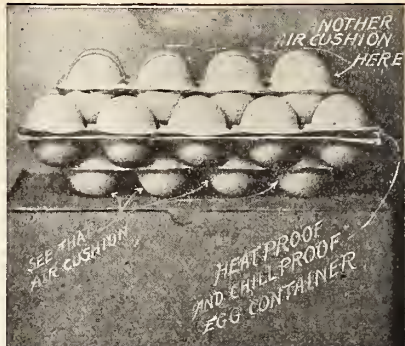
EGG AND "EGG SUBSTITUTES."
A. F. ROLF, Poultry Specialist, Baton Rouge, La.

The egg is the most widely used food known to the human race. As produced by nature, the egg is a perfect source of nutrition, with no waste or harmful constituents, and is a food of very appetizing and delicate flavor.

With the rather recent increase in egg prices, there have been some so-called "egg substitutes" appearing on the market. Practically all of the materials sold under that guise consist of baking powder, mixed with a little starchy material or powdered milk, and some kind of a powerful yellow dye. These preparations do not contain substitutes for the nutritive elements of the egg, and are not entitled, therefore, to be called "egg substitutes." Their action is simply to give cakes and pastries the apparent texture and color given by eggs—that is, to make the foods appear to be what they are not, or, in present-day language, the action is pure camouflage.

Some of these imitation substitutes are advertised under misleading statements which hope to create a false impression of their value, such as, "Half the eggs in any recipe may be replaced by the use of one teaspoonful of 'substitute' for each egg omitted, without impairing the quality of the finished article." The use of the same amount of baking powder would give the same texture, and the use of grated carrots in proper amounts would give the same color, but in neither case would the nutritive value be as great as when the designated number of eggs is used. It can safely be said that up to date no real substitute for eggs has been found.

A fresh-laid egg with a good sound shell, including water, shows the following analysis: 13.2 percent protein, 11.4 percent shell and 0.8 percent other ash, 8.9 percent fat, and 65.7 percent water. Fresh eggs may be substituted for meat to good advantage. Eggs contain the flavor and value of animal protein without the toxic animal wastes found in meat. Chemical analysis shows that eggs and moderately lean meat, pound for pound, have nearly equal food values. On this basis alone, the value of one dozen eggs would be equal to that of one and a half pounds of meat, since one dozen average eggs weigh one and a half pounds. However, chemical analysis misses the facts that eggs are a more commendable food dietetically; that two eggs weighing four ounces will satisfy the average person who would require eight ounces of meat for the same portion of a meal, so that they will go



Arminger's Safety Hatching-Egg Carrier
HEAT PROOF SHOCK PROOF
CHILL PROOF FOOL PROOF
Send 30 cents for sample
ELMER L. ARMINGER, 216 S. Water St., CHICAGO, ILL.

Stop Hatching Weak Chicks
With Cheap Incubators

Remember, it is not how many you hatch that counts, but how many you raise. A Queen costs but little more, and the extra chicks that live and grow soon pay the difference.



Queen Incubators
Hatch Chicks That Live and Grow

Built of genuine California Redwood. Redwood does not absorb the odor from the hatching eggs. Cheaper woods, and pasteboard lining in iron and tin machines, retain the odors to weaken and kill the hatching chicks. The Queen is accurately regulated—taking care of temperature variation of 70 degrees without danger. Not cheap, but cheap in the long run. Catalog free.
Queen Incubator Co. Lincoln, Nebr.

GENSCH'S Single Comb White Orpingtons
Sensational Winners at Chicago Coliseum,
Grand Breeders — Half Price
A good chance to get the best cheap.
F. M. GENSCH - OMRO, WIS.

Glenco Black Orpingtons
winners at Chicago Coliseum, Kansas City, Omaha and Des Moines. This year's breeders at less than half price. I want the room for chicks.
Dr. G. H. Humphrey Woodbine, Iowa

Golden Wyandottes
Eggs and Chicks shipped to reach you safely. Eggs, \$2 per 15, \$3 per 30, \$4 per 50, \$8 per 100. Chicks, prepaid, \$19 for 20, \$11 for 50, \$6 for 25. Circular free.
J. S. PENNINGTON, Box A, PLAINFIELD, ILLINOIS

S. C. Black and Buff Orpingtons
winners at all the leading midwest shows, Chicago, Des Moines, Omaha, Kansas City, St. Joseph, Dubuque, Cedar Rapids, Davenport and St. Paul.
Stock and Eggs for sale.
O. M. BROWN Box G SLATER, IOWA

WHITE ORPINGTONS
Winners at Indianapolis, Indiana State Fair and the Chicago Coliseum
WILLIAM N. OTTO 4815 Central Ave. INDIANAPOLIS, IND.

Columbian Wyandottes
Some grand bargains in hens and cocks at sacrifice prices. H. A. D. LEGGETT & CO., 24 N. Nash Place, Burlington, Vermont.

Single Comb Brown Leghorns
Chicago, Indianapolis, Columbus and Milwaukee winners. Eggs half price. Write for mating list.
Herbert F. Moeller Box 137 B La Porte, Ind.

farther, pound for pound, in serving food; and that eggs are an article used in general cookery for which no substitute has been found. These facts, when fully considered, show the intelligent buyer that one dozen eggs have a value equal to at least two pounds of lean meat. Until the price exceeds that point, eggs may be very economically used in the diet.

The food value of the egg can be conserved, for long periods, with little or no deterioration. This requires, first, the production of good eggs, and second, their proper preservation. Infertile eggs are better for market purposes than fertile eggs for the reason that they will not spoil so quickly. Eggs should be produced from a flock in which no male bird is present. Clean nests should be provided, and the eggs gathered regularly at least once a day. They should be stored in a cool, dry place and marketed frequently. Cold storage provides the best method of preservation, although this method is available only for the larger packers. For home preservation of eggs, the waterglass method is very simple and efficient. By this method, eggs produced during the season of plenty may be preserved, in the home, until the season of scarcity. Eggs may be preserved by this method, for from six to eight months, at a cost of about two cents per dozen. Detailed directions for this method of egg preservation may be obtained, free of charge, by writing to the Live Stock Extension Service, Baton Rouge, La.

If you want to help the country to get better and cheaper eggs, get a flock of hens of your own. Almost any back-yard will support enough hens to utilize the vegetable and table wastes, converting them into the best food in the world—eggs.

Have You a Chicken in France?

Miss Lucy Hewitt of Chicago intends to "rechickenize" France. She sells chicken buttons for 10 cents apiece and on each button is the password, "I have a chicken in France." Every button is the price of an incubator egg and every incubator holds 1,000 eggs. Thru the persistent efforts of Miss Hewitt incubators, chickens and children have been assembled on a farm in the south of France and under the direction of experienced poultrymen the children, 600 in number, look out for the incubators and care for the chickens as they make their debut. Thirteen poultry farms have been established since Easter by Miss Hewitt. For \$400 four incubators can be obtained, the wooden barracks provided by the French government, and the salary is paid for a former soldier who oversees the installation of the machinery.—Chicago Daily News.

Arkansas Fifth Laying Contest.

The fifth contest will be open to Arkansas breeders only. The contest is a sort of registry of merit test for poultry and we wish to have Arkansas breeders to have the benefit of the work. The competitive feature of any contest should really be a secondary consideration. Cash prizes will be offered at the close of the contest to both individuals and pens; also certificate of production for all pens, and certificates of merit for all 200-egg hens. This

will make interest in the contest even more keen than at present.

The entry fee of \$5 per pen will be used to help pay the cash prizes offered.

We are also planning on making extensive improvements on the poultry plant so as to be able to give the birds the best possible conditions. The yards will be divided so that half of each yard can be kept in green crops to be used to supplement the sprouted oats used at present. The houses will also receive attention.

It is also our plans to be able to provide expert care for the birds during the contest, so that conditions will not be lacking in order that the birds may do their very best.

The contest pens in the fifth contest will not be mated, so that breeders can be assured that their stock will not be scattered over the state unbeknown to them. Any desire to mate pens must come thru the owner of such pen.

We are planning on making this fifth contest the best possible and respectfully ask the hearty co-operation of all Arkansas poultry breeders.—H. B. Dvorachek, Professor of Animal Husbandry, Fayetteville, Ark.

Fernwood Leghorns
 Make egg records. Win prizes. Get my folder.
 W. O. Benson, 712-16 W. 103rd Street, Chicago, Ill.

"In our estimation, The Blue Hen Mammoth cannot be beat as a hatcher. We are taking off hatches every Tuesday that are astonishing. For instance, our hatch today was 1300 chicks from 1600 eggs set (80%) Wonderful, you will agree. We would like to double deck for next season."
 Lockport, N. Y. McARTHUR BROTHERS



Turn 10,000 Eggs in 10 Seconds One Man Can Handle 50,000 Eggs

WHY UNCLE SAM USES BLUE HEN MAMMOTH

This letter from the Government Poultry Farm, Panama Canal Zone, will tell you why Uncle Sam uses Blue Hen Mammoths.

"The hatches in the Blue Hen continue to outclass those of the Candee, and we have received three 100% hatches. Ninety percent hatches and over are quite often made, and an average for the month of May of 76.6% of the eggs set in the Blue Hen against 44.2% for the Candee."

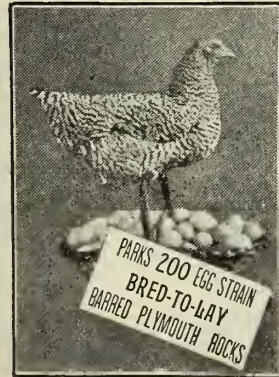
Blue Hen Mammoths more than pay for themselves the first season. Only one-tenth of usual time needed to operate. Turn all the eggs in a few seconds, test them in half usual time, and practically eliminate cooling. Secure 2½ times usual capacity in same space. Save Time—Save Work—Save Money.

Prepare now if you want to "cash in" big next Spring and Summer. Blue Hen Mammoths are a "sure thing." Hatch as high as 90% without taking up much of your time. Reap big profits when crying demand comes for Day-Old Chicks. Write today for fine new catalog.

Let us send you our new catalog telling all about the Blue Hen Mammoth. Read it over and learn about the finest incubator on the market—as hundreds of users call it. If you send a sketch of your present or proposed incubator cellar, our Special Service Department will send you some helpful suggestions. Write immediately for the Blue Hen Mammoth catalog.

WATSON MFG. CO., 2776 Ann St., LANCASTER, PA.

Annual Surplus Stock Sale



Parks' Bred-to-Lay Barred Plymouth Rocks

Edward Brown, one of the world's greatest authorities on poultry subjects, says: "Breed from the high normal layers in your flock, and not the phenomenal layers." That's the kind Parks' Strain is—High normal layers. They prove it everywhere, in the hands of my customers and in the laying contests.

A Grand Selection of Pullets, Cockerels, Hens and Cocks

They are all listed and quoted at very attractive prices in our free surplus stock circular.

BETTER ACT QUICKLY. We never have had enough for our early demand. Take advantage of the normal conditions of express service. Just as soon as grain and winter coal starts moving railroads will again be jammed.

SURE, WE'RE GOING TO WIN THIS WAR. Uncle Sammy has too many resources up his sleeve that KAISER BILL underestimated.

YES SIR-EE. The hen, too, is going to play her patriotic part, and especially the LAYING HENS. What other country can boast of a strain like the Parks' Strain with careful selection, trapnesting and pedigreering for eggs since 1889. **WOULD YOU WONDER** they so easily out-layed the 2500 birds in Missouri laying contest, from 37 states and 8 foreign countries, and made the remarkable winter month record of 134 eggs in Jan. (6 birds). **NO,** we don't make the broadest laying claims, but just remember in all these 28 years they have layed their way into universal popularity while hundreds with greater phenomenal laying claims have come and gone.

Catalog giving history of strain, and valuable information, a dime. Circular free.

J. W. PARKS Box J ALTOONA, PA.

It Is Your Duty to Yourself and Your Country to SAVE FOOD

Uncle Sam expects every man,
woman and child who can to

Raise Poultry

Single Comb White Leghorns

Take Less Feed and Lay More Eggs

Save the Feed
Produce More Eggs
Help Win the War

Catalog on request

STOCK FOR SALE Oak Dale Farms

Farms:
Austin, Minn.
Le Roy, Minn.

Business Address
Austin, Minn.

SABRINA FARM WHITE Wyandottes

are bred primarily for heavy egg production. We believe that our breeding stock should not only be vigorous, lay large hatchable eggs, and produce heavy laying offspring, but should also be real standard high quality birds that can hold their own in the show room. We have recently purchased the entire flock of

Owen Farms White Wyandottes

Let us quote you prices on fine, early hatched cockerels to head your breeding pens next year or for showing this winter.

*Every order or inquiry has
my personal attention.*

ARTHUR H. SHAW, Prop.
Office—502 Grove Street
WELLESLEY - - MASSACHUSETTS

Popularly
The Test
of Merit

Pape's
Single
Comb
Black
Minorcas



require but little yard room and inexpensive quarters. They are prolific producers of glorious large white eggs, a most delicious table fowl and win Championship show room honors.

Am offering Superb quality in partly matured chix, very promising cockerels, layers, breeders, and pens at introductory prices. Our 1918 hatched and yearling show stock for fairs is especially fine. Every consumer should become a producer today. What can we do for you?

CHARLES G. PAPE Box B 74. FORT WAYNE, IND.

OAT SPROUTER \$2.46

For \$2.46, including heater, you can make the best oat sprouter on earth. Plans for building 10c.

I. PUTNAM Route 7805 ELMIRA, N. Y.

Summer Sale of Hens
at bargain prices. You can't overlook this sale. THE WINNING KIND. : : : BUFF ORPINGTONS.

I. W. ROGERS Box A LAMONT, IOWA

Readers Open Forum

Potatoes and Chickens.

HAVE been greatly interested from time to time in experiences related in the American Poultry Journal in regard to truck growing in connection with poultry raising, especially am I interested in growing potatoes and chickens, since I have had most interesting experiences with this combination. A year ago last spring we planted two patches of potatoes, one of which was in the garden where the chicks could not get at them. As my time is limited, this patch was more or less eaten up by bugs and overrun with weeds and grass. The other patch of potatoes, one-third of an acre, was planted near one of the coops where I placed a small colony brooder with 350 chicks. At planting time the hens were shut out of the patch, but the chicks allowed out, and they certainly took care of the tender young weeds as they came up and the potato bugs, as I never saw a "hard shell" all summer.

I cultivated the potatoes in the one-third of an acre patch five times with horse and five-shovel cultivator, which took me two hours each time. I went over the patch twice, the first time with a hoe, and it took about three hours to get all the weeds out. When the vines about covered the ground I spent another hour pulling what weeds were left. The chickens had been shut out just before this, as they began scratching and wallowing under the vines and picking potatoes when they found them.

The ground for these potatoes had been well covered with poultry droppings brought direct from the dropping boards and all plowed in early. The potatoes were planted with a hand planter. We had an early freeze last September which froze the vines to the ground and I am sure this cut the crop about 20 bushels. I did not dig them for quite a while after the frost and then had a man to help me. We started in about the middle of the forenoon and dug them with potato forks, always digging backward, throwing the two rows together and four rows of vines together. We had them all dug and picked up by night, and had 86 heaping potato crates of potatoes. They were all absolutely smooth, large and white and well ripened, with very few small potatoes. They were Carmon's potatoes. The patch was right along the road and many said they were the finest looking vines they ever saw and when they were dug and lying in the clean rows, people said the sight was the finest they had ever seen in a field of potatoes.

I am planning each year to have a good flock of chicks to help handle the "hard shell" bugs and the weeds, and believe that it is possible in this way to have a good crop at a lessened cost of production. In planting my last year's crop I used small seed, many of the potatoes being too small to cut once in the center, and yet from these I gained the reputation of growing the finest quality potatoes in the country about here. We have a fine sand soil and the poultry has made it rich with droppings.

Michigan.

J. L. Spangler.

A Genuine Fancier's Fowl.

What constitutes a genuine fancier's fowl? Without a doubt the first point the fancier looks for is beauty, but beauty means more than the unthinking would have us believe,

since beauty is dependent upon health, on proper development and upon physical vigor, as well as many other qualities. In my mind, there is no more beautiful bird nor one giving greater satisfaction to the owner than a flock of well bred White Leghorns. I am always attracted by the breed even when seen in the distance because of the white plumage and stately appearance.

It has been said that the S. C. White Leghorn approaches the ideal in poultry more closely than any other variety, and this appears to be true since an ideal bird satisfies the buying public and rewards the owner. This ideal bird, the White Leghorn, has attracted more fanciers than any other one variety of poultry. How many like myself have wanted to own and breed the S. C. White Leghorn, and after engaging in this fascinating occupation, have become more and more interested in the work of breeding more and better Leghorns!

Ohio.

Elton Stauffer.

True Quality in R. I. Reds.

It is a very difficult task to state the reasons for one's satisfaction in such terms as to produce the same feeling of satisfaction in the one who reads. Were it possible to do so, each reader would immediately purchase a flock of R. C. R. I. Reds.

In any breed there are several qualifications necessary to make it a breed of real worth. It is because the R. C. Reds fulfill these qualifications that I keep them. For the sake of emphasis let me state these qualifications in the beginning. They are, eggs, meat, beauty, disposition, mentality, vitality and ability to reproduce themselves.

The average owner expects his fowls to give a good return in eggs. No matter what breed he has, he is disappointed if they do not lay eggs and plenty of them. With half a show the R. C. Reds will not disappoint their owner in this respect. Glance over the contest records of the past and see if they have not been holding their own with the best. You will also notice that they have been doing it on as little feed as any of them. We feed 2½ pounds of scratch and 2 pounds of mash per 15 hens per day. And they give a return in eggs. Last year 31 hens gave the following report: January, 540; February, 542; March, 604; April, 607; May, 601; June, 526; July, 476; August, 280; September, 210; October, 81; November, 24; December, 15. The reason for the small records in the latter months was that we kept killing them off to make room for the young ones. We bought them for layers and they have not disappointed us. With the best of attention they would have done better. They seem to know that their business is to lay eggs.

Meat is also no small item. A canary bird is not very desirable even tho it may produce a fair number of eggs. A Red cockerel will produce six to seven pounds of the finest flavored meat in so many months. In a flock of 32 cockerels on a town lot we averaged ¾ pound per month, on an average of 9 pounds of feed per month, not counting the lawn clippings. And where such meat? A beautiful bird, alive and a beautiful bird on the platter. With heavy drum sticks, a full breast, a well meated back within and without, and a neck far from poor picking, they make a feast fit for the most fastidious.

SHIP YOUR

EGGS WHITE OR BROWN EGGS

net, no commission; returns day of arrival.
All reasonable drafts honored, to

ALEX MERSEL

191 Duane St., New York

References

Atlantic National Bank
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All Com. Agencies

United States Food Administration
License No. G-07408

Some folks occasionally say that they do not care for the looks of their chickens, just so they produce eggs and meat. No one entirely disregards the appearances of his chickens. The R. C. Red can do his share of the work and look well while at it. Nothing is a more pleasing sight to the eyes of those who appreciate beauty than a flock of Reds. With their rich, strong liquid red that has a snap and life to its color, they add a brilliancy and beauty to any surroundings. The city back yard takes on new life and beauty with them present. To the green fields of the farm they add the needed color to make the place a perfect harmony, while at the same time their color is a great protection to them.

Their shape is also a thing to admire. Their long, lithe bodies move with a grace that denotes their royalty. They have a shape all their own. They do not have the leggy appearance of some breeds; sit well on their legs but are not a pinched up bunch of feathers as some others. An equal mingling of curves and straight lines which appeals to the eye of the artist. Good combs that are never spoiled with frost bite, an eye full of fiery vitality, a boldness of bearing that would do honor to a Caesar, a clean red face that adds materially to their beauty.

No one should consider purchasing a flock of chickens without first learning their disposition. This is a large contribution to your pleasure in working with them and to their success for you. Personally I have no patience with a fussy, nervous bird. We cannot agree. Study the disposition of the large and successful breeders and of the birds they breed, and see if they are not generally well mated. The R. C. Reds are wiry but not wild, docile but not lazy. Very peaceful and easily contented. If paid attention, they become the greatest of pets. Cool and cautious at all times.

Mentality is a quality of supreme importance, tho seldom considered. Low mentality is almost as bad a defect as low vitality. I have had birds vigorous and active but with low mentality, hence less productive. One who knows nothing of the mentality of his birds is not well acquainted with them. It is an attractive quality to those who appreciate its worth. The Reds have it in a marked degree.

Vitality is of the greatest consideration. It is very seldom you see a R. C. Red with his head under his wing warming the roost. They are tireless workers from dawn till dark. When foraging, they seem to be engaged in a life and death struggle. They possess a constitution and body that is capable of a large amount of work. They are not very susceptible to the changes of the weather. In this is perhaps their greatest advantage as egg producers. Zero does not stop their musical choruses. They do not lose one single moment with frozen combs as the single comb varieties sometimes do. Not every person is so situated as to have pens that are frost proof. The cold weather does not affect their laying in the least; besides, the warm summer months hold no terrors for them. A sick Red is the exception. Their strong vitality saves one from a thousand worries and cares, both as youngsters and older birds.

The back-lotter, farmer and general chicken man desires a chicken that can reproduce itself without the double mating of some breeds. Generally he does not have the time or room for it. Double mating can be practiced with good results, but it is not necessary to keep a uniform flock in type and color. Use a cock bird of good type, good luster to surface plumage, medium to medium dark with a strong under-color not showing much contrast, with as little contrast in hackle, saddle and shoulders as possible, free from smut in back and free from white or black in hackle and saddle; on females of as uniform color and shape as it is possible to use, and you should have young-

sters of uniform type and color. Never use females of all colors and shapes and expect to get uniform offspring. It can't be done.

A little smut in male does not bar him if used with caution. Never use one with white in hackle or saddle and with weak under-color. Off sizes and colors are more rare than in some of the other popular varieties. Begin with a strain that possesses good blood lines and stick to it, and you will soon learn what to expect from your birds. And you will have an added pleasure and profit in caring for them.

It is because the R. C. R. I. Reds fulfill the above qualifications so nobly and respond to every attention given them so readily that I keep them. Apply ordinary common sense and attention to the R. C. Reds and they will reward you richly for every act in giving you as fine a looking flock and as practical a business fowl as any other variety or breed. The R. C. Red is his own best argument. He needs no eulogy; he speaks for himself. Try him and be convinced.

West Virginia. Chas. Hickman.

Anconas for Large Eggs and Many of Them.

By H. M. Long.

EGGs that weigh 28 ounces to the dozen—4 more than the average—and handsome birds that always command attention explain why I am an Ancona enthusiast. I do not call myself a fancier; I realize there is much for me to learn. My birds are my recreation, but I make it my business to see that they work, stay on the job and do not

owe me anything when the account is balanced at the end of the year.

When a boy I kept chickens—just chickens. There were almost every kind in the yard. Sometimes they laid, but often it was the opposite.

Several years ago it became possible for me to start another flock. This time I was determined my stock would be full-blooded at least, even if I did not have birds I would feel justified in entering in a show.

The local show was held in early January. I attended, inspected the exhibits and subscribed for three magazines. These I began to study to decide what breed I wanted. It was not until April that I reached the conclusion I wanted Anconas. There were several factors in determining this:

1. The Anconas are strikingly handsome birds.

2. They belong to the Mediterranean class, which means usually a maximum of eggs for a minimum of food.

3. They do not require the floor or ground space heavier breeds do.

4. They mature early.

5. Eggs are white and it is my experience they are next in size to Minorcas', which make up in increased amount of food required to produce eggs of equal value.

In April I ordered chicks from one of the leading Ancona breeders, and late in May the little fellows arrived. The fifty were nursed very carefully. A few found existence too much of a struggle and passed out, but of those that lived 23 were pullets, and some of the cockerels appeared to me to have class.

Nearly all that year it was everything going out and nothing coming in.

The Anconas began early in the fall to pro-



Feed That Makes 'Em Lay Double the Food Value of Meat Scraps

Realizing the importance of the right feed to keep up egg-production we experimented on this new product until we are convinced that it is right. We know that a valuable poultry food has hitherto been overlooked. Here, in the new

Chick Cheese

we offer a food rich in nutriment and fat—all clean, egg-producing nourishment. It is made of the rinds and cuttings of the best cheese in the world—full cream Wisconsin Cheese. We grind this and press it into shape and pack it into neat, 60-lb. boxes. Send for some now.

Price 5 cents per pound, f. o. b. Chicago

J. L. Kraft and Bros. Co.
357 River St. Chicago, Ill.



U R FISHEL HOPE, IND

BUY NOW

Save at least one-third by buying what you need now
Exhibition Birds—Selected Breeders—Utility Fowls
 You want the best possible in poultry—so buy
U. R. Fishel's White Plymouth Rocks
 Winners at Six World's Expositions, Twelve State Fairs, Chicago, Cincinnati, Memphis, New Orleans, etc.
 Write me your wants, please. I can give you special value.
U. R. FISHEL Box A HOPE, INDIANA



EVIDENCE OF THE QUALITY OF BARRED ROCKS BRED BY J. W. PARKS, ALTOONA, PA., BOX J.

(11) Silver cups and ribbon winnings on eggs, utility pens, laying contests and exhibition classes. (12) Over 21 lbs. of favorable reports from customers over the world. (13) Getting on the outside of 274 eggs in 365 days. (14) First honors silver cup won by Parks Strain pen at Missouri Laying Contest.

duce white eggs. We had more than we could use and sales in the immediate vicinity began. I had three or four Reds to use as broodies later and when I reported 632 eggs for March there was a marked demand for Ancona eggs for hatching purposes. April was not quite so good, the 600-mark being just missed. But for the year, molt and all and minus several birds that answered the dinner bell early in the year, the flock made a total of more than 3,800 eggs. In the fall I was away for several weeks and a boy looked after the feeding for me, and not any too successfully.

We have had some odd experiences with our Anconas. Woman agents have come to the house to canvass, caught a glimpse of the birds, asked my wife to show them, and then the ones who came to sell changed things and carried away eggs we were sure would hatch strong chicks.

I had one dissatisfied customer—a woman.

She placed 20 eggs—all I had at the time—in an incubator without another egg of any description as a check. Three weeks later she brought the eggs back. They did not hatch. I broke the shells—a chick in every one. Something went wrong with that incubator. I gave the woman another 20 eggs. I had just broken up the pen and when a couple of days later she wanted more eggs I did not have them. She was not destined to have Anconas that year. She placed the basket on the cellar stairs and her father kicked it to the bottom. And with 40 eggs she did not get a chick. But it wasn't the fault of the Anconas.

I never tried to see what I could do in the course of a year, but in 1915 the first pullet egg was laid July 28. And the pullets did not molt.

There is a beauty about Anconas I cannot find in other breeds. I admire a good specimen regardless of breed, but the black coat

mottled with white appeals to me, and I find it as difficult to get near perfect specimens as it is for the Barred Rock men to secure the barring that is the mark of good strain.

I do not find Anconas wild. It is true they are as easily frightened as Leghorns and some other breeds. Little ones hop on my knee, get on my shoulders and even on my hat when I take green stuff to them.

Ancona eggs are a delight. I get the largest eggs in a block where there are a dozen flocks. Twenty-eight-ounce eggs are common with me.

Uniformity is a good point in eggs that go to the market. One spring when I was carrying a dozen to one of the men at the office our grocer became curious while I was waiting for a car. I displayed the eggs in the carton. They were weighed, and that grocer wanted to buy all the eggs I could furnish and pay current retail price.

"I can do it and sell them and make 5 cents a dozen," he said.

When we compared the stock in the store and even after we had picked out a dozen of the largest eggs in a good-sized box on the counter, the weight of the Ancona eggs could not be duplicated.

I have found Ancona chicks hardy, not difficult to raise to maturity. This last summer I lost a number—not from disease, but because a certain black cat managed to get in the house in spite of wire roof on the yard. I don't know yet how he did it. No; it wasn't rats. I got out of bred one bright moonlight night in time to see the cat trotting across the yard with a squawking chick in its mouth.

For several years I have had Anconas. It will be years, I hope, before I have my last one. I am satisfied, which is something not all poultry raisers can say. My birds have paid their way; they have done more—they have left many dollars as reminders of the busy little black hens mottled with white that produce the big white eggs that are eggs. And now that local merchants are threatening to sell eggs by the pound, I say:

"Go to it." The Anconas will get all the best of it."

We Make

- Runways
- Trap Nests
- Brood Coops
- Colony Coops
- Setting Coops
- Portable Henneries
- Fireless Brooders
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Trap Nest

3 years—36 issues—of American Poultry Journal for \$1



Associations and Shows

Secretaries are Requested to Send in News Items of Interest About Their Shows for This Department

SHOW DATES.

- Aug. 20-23—Independence Fair, Independence, Mo., A. P. A. Show; W. H. Johnson, Sec'y.
- Aug. 27-31—Pennyroyal Fair, Hopkinsville, Ky., A. P. A. Show; D. T. Heimlich, Judge; John W. Richards, Sec'y.
- Sept. 9-14—South Dakota State Fair, Huron, S. D.; A. P. A. Show; E. C. Branch, Judge; C. N. McIlwaine, Sec'y.
- Sept. 30-Oct. 4—Interstate Fair Association, "Trenton Fair," Trenton, N. J.; A. P. A. Show; Cosh, Hobbs and Chapman, Judges; Harvey E. Rogers, 1520 Nottingham Way, Supt.
- Sept. 2-6—Connecticut Fair Association, Inc., Hartford, Conn.; A. P. A. Show; H. C. Parsons, Sec'y.
- Sept. 24-28—Connecticut State Agricultural Society, Berlin, Conn.; A. P. A. Show; Paul P. Ives, Judge; Leland W. Gwarkin, Sec'y.
- Sept. 24-27—Lane County Poultry Association, Eugene, Ore.; A. P. A. Show; B. F. Keeney, Judge; L. R. Kerns, Sec'y., 174 Washington St. N.
- Sept. 25—Guilford Agricultural Society, Guilford, Conn.; A. P. A. Show; R. D. F. Bristol, Sec'y.
- Oct. 1-4—Hamilton Poultry & Pet Stock Association, Hamilton, Ohio; A. P. A. Show; W. W. Zike, Judge; Fred J. Jones, Sec'y.
- Oct. 1-5—Lancaster Fair Association, Lancaster, Pa.; A. P. A. Show; J. F. Seldomridge, Fair Sec'y.; D. G. Witmyer, Lettitz, Pa., Supt. Poultry Dept. Address all communication pertaining to poultry to the Supt.
- Oct. 3-6—South Louisiana Fair Association, Donaldsville, La.; A. P. A. Show; A. F. Rolf, Judge; R. S. Vickers, Sec'y.
- Oct. 7-12—Virginia State Fair, Richmond, Va.; A. P. A. Show; C. T. Riddick, Sec'y, Box 258.
- Oct. 21-26—North Carolina State Fair, Raleigh, N. C.; A. P. A. Show; Jos. E. Pogue, Sec'y.
- Oct. 21-26—Lowndes County Fair Association, Georgia-Florida Fair, Valdosta, Ga.; A. P. A. Show; J. M. Ashley, Sec'y.
- Oct. 28-Nov. 2—Southeast Alabama Fair Association, Dothan, Ala.; A. P. A. Show; S. E. Gellerstedt, Sec'y, Box 154.
- Oct. 30-Nov. 4—State Fair of Louisiana, Shreveport, La.; A. P. A. Show; C. P. Van Winkle, Judge of Poultry; A. T. Modlin, Judge of Pigeons; W. R. Hirsch, Sec'y.

Ohio State Fair.

Poultry representation at the Ohio State Fair the last week in August in the number of exhibits, variety and quality is expected to surpass that of any previous exposition here. Interest in poultry in Ohio has been developed rapidly and production the past year, it is declared, has been on an unusually large scale. This has been stimulated by the fancy prices which birds command and to the insistent and patriotic appeals for more poultry and eggs as substitutes for meat.

Because of the fact that the war has created a peculiar and enormous demand for poultry and eggs, the management of the Ohio State Fair this year has given extraordinary attention to the poultry department in an endeavor to make it more attractive and instructive than ever before. There is certain to be an extensive exhibit in view of the fact that each year has brought a larger display of birds at the fair. The entries last year were so numerous that it was necessary for officials of the fair to borrow pens from Ohio State University.

J. L. Carlisle, of Greenfield, is the member of the state board of agriculture in charge of the poultry department, and the superintendent of exhibits will be W. E. Limes, of Linden Heights. These judges have been announced: L. Rawnsley, Willoughby, O.; D. D. Whitaker, Cuyahoga Falls, O.; Walter C. Young, Dayton, O.; H. A. Pickett, Georgetown, Ky., and Charles V. Keeler, Winamac, Ind.

Prizes offered in the poultry department this year total \$2,900. E. V. Walborn, manager of the fair, states that entries will close at 6 p. m., August 12. Birds must be in position, ready for judging, not later than 8 a. m., Monday, August 26. Fowls will be judged by comparison and not with use of a score card.

No fowl shall be awarded first premium that is unworthy of a score of 90 points.

One of the poultry features of the fair that will attract wide attention this year comes under the caption of boys' and girls' club work contests, in which there is a special event for poultry clubs. Club members may exhibit a trio of birds, a cockerel and two pullets. The express charges incident to bringing the exhibits to the fair will be borne by the fair management, which also will pay the expenses of demonstration teams that will participate in a contest. These teams are each to be composed of three club members, representing a county or district. The demonstrations are to be given in feeding, killing and preparation for market, caponizing, judging of utility poultry, and the like.

Poultry is claiming the attention of thousands of boys and girls thruout Ohio, many of

whom are earning nice sums of money in the business. These contests are planned with the chief object of keeping present interest alive and encouraging other youths to get into the poultry game.

Wisconsin State Fair.

From present indications the poultry department of the Wisconsin State Fair will by far surpass any of the previous exhibits. Special efforts are being made to make this show a record-breaker and to this end they are offering over \$3,000 in cash premiums. The poultry exhibit will be held in the new building that was completed in 1917. Send for premium book and entry blanks to Oliver E. Remy, State Fair, West Allis, Wis.

Poultry premiums at the Oklahoma Free State Fair, Muskogee, to be held September 30-October 5, have been doubled over those of former years. This year's premium list in the poultry department equals those of the largest fairs of the United States, and classification has been provided for all breeds.

The premium list in the poultry department of the Erie Exposition, Erie, Pa., compares favorably with that of the larger state fairs and this department promises to be of unusual

WISCONSIN STATE FAIR

MILWAUKEE SEPTEMBER 9-14

**\$3,243.75 Offered in Premiums
in Poultry Department**

New Poultry Building Completed in 1917

Send for Premium Book and Entry Blanks to

<p>J. G. HALPIN State Fair West Allis, Wis.</p>	<p>←or→</p>	<p>OLIVER E. REMEY State Fair West Allis, Wis.</p>
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NOTICE THIS

The Ohio State Fair has not only greatly increased the amount of premiums offered in the Poultry Department, but it has cut the entry fee one-half, making it **Twenty-five Cents**. Entries close August 12. Write for premium list and entry blanks. Address

THE OHIO STATE FAIR

Columbus, Ohio August 26, 27, 28, 29, 30, 1918

The Big Centennial Illinois State Fair

Springfield, Ills., August 9th to 26th

Largest	Poultry Department	Government
Cash Prizes	Silver Centennial Medals	Live Poultry Exhib.

School for the purpose of demonstrating the culling of the non-producing hen from the flocks in Illinois, open daily under the direct supervision of the U. S. Department of Agriculture. Enter a few of your birds; come, and learn this valuable lesson, so that you can impart it all over your county. Best of Judges. Best of Fairs.

Write for catalog to either

A. D. SMITH, Quincy, Ill.	or	B. M. DAVISON, Springfield, Ill.
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COLISEUM

Poultry & Pet Stock Show, Chicago

TENTH ANNUAL EXHIBITION

December 3, 4, 5, 6, 7 and 8, 1918

THE one show west of New York that for nine consecutive years has met every obligation in full and in cash, without the sale of one dollar of its capital stock.

THE COLISEUM SHOW

has introduced more new features that work to the interest of the fanciers than all other shows in this country combined. It is the one exhibition that caters to all classes of breeders, and helps in the right way to promote the interest of all fanciers, large and small.

A WINNING AT THE COLISEUM

is without question the most important win that can be made in this country, no matter what part of this country you may be located. A winning at this great show will put you on the map and insure you good prices for your stock.

THE COLISEUM SHOW

has never sold concession space to a faker. Only legitimate concessions are allowed, and we pride ourself on the fact that we are the only national show in the world that absolutely guarantees its concessionaires to its patrons.

THE COLISEUM SHOW

is the greatest sale show in America, and the only show that we know of where a legitimate sale of \$5,000 was made by one exhibitor. Coming as we do on the same dates as the Great International Stock Show, we put our exhibitors in touch with the greatest buying public in the world, as more than 100,000 stockmen from all parts of the world come to Chicago on this date.

The Light Brahma Club, the International Plymouth Rock Club, the International Turkey Club, the National Bantam Club and the American Rouen Duck Club will hold their meetings with us this year, with other important clubs now voting and quite likely to decide in favor of the COLISEUM.

YES, THE COLISEUM SHOW

will pay cash prizes in 1918. And in addition to our regular cash list we will pay more cash specials than ever in the history of the show. This is no time to retrench on expense. The breeders need all the encouragement they can get, for God knows they have been hit hard enough. In addition to our cash prizes

THERE WILL BE SIX \$50 TROPHIES

for best display in six important breeds. These trophies are without question the most valuable prizes ever offered at any show and are offered for the best ten entries in a breed, instead of variety, as formerly.

THE COLISEUM PREMIUM LIST

will be mailed earlier this year than formerly. All exhibitors at the 1917 show will receive the list without request; others are requested to write the Secretary, so their names may be added to the mailing list.

The Lexington Hotel, Chicago, has been selected as headquarters. This hotel is located at 22nd St. and Michigan Blvd. Street cars stopping in front of the Coliseum stop in front of the Lexington; or exhibitors may walk, as the distance is only six squares.

A BIG NEW FEATURE

will be added this year—one that has been requested by the exhibitors and one that will be appreciated by every exhibitor, as it gives to the exhibition and the public something they have always needed. Don't fail to send for list, and please remember

ALL ENTRIES CLOSE NOVEMBER 15

Chicago and suburban residents may get information in regard to concessions from James W. Bell, care American Poultry Journal, 523 Plymouth Court; but for premium list address the Secretary, 25 West Washington St., Indianapolis, Ind., until October 15th; after October 15th, Lexington Hotel, Chicago, Ill.

THEO. HEWES, Secretary.

size and importance. This show takes place during the week of August 19 to 24, inclusive. For full particulars address the manager, C. R. Cummins, Erie, Pa.

The Kankakee Inter-State Fair will be held August 26-31, 1918. The premiums in all departments are most attractive and especially in the poultry department. For premium list address the secretary, Len Small, Kankakee, Ill.

KANKAKEE FAIR INCREASES PREMIUMS.

Week of August 26 to 31—War Work Important.

The Kankakee Inter-State Fair, which this year will be held in the week of August 26-31, has for a number of years put on a high-class livestock and horse show. Its Percheron exhibits have been large, and its cattle, sheep and swine shows excellent and complete, while the fancy horse show has been of the very highest quality.

This success has been due largely to the policy of that association in offering as large premiums as it could afford, and paying all premiums in cash to the winners. For this year it is at work to enlarge its premium offerings, and improve and revise its classification. Many important changes will be made in the premium list—changes that will be appreciated by exhibitors.

The management of the Kankakee Fair feels that in conducting its exposition it is rendering patriotic services of a high order. It has long done its utmost to encourage the raising of better crops, the breeding of pure-bred livestock, and the making of better foodstuffs. Now that the nation is at war, the importance of work such as this is doubly important, and naturally this fair proposes to do much valuable work along these lines. It is planned to make this a wartime fair.

Coliseum Gets National Pet Stock Meeting.

The Great National Pet Stock Club, representing every state in the Union, has voted to hold its annual meeting with the Coliseum show December 3 to 8. This meeting will bring out the very best there is in pet stock, and will undoubtedly be one of the greatest shows ever held by this progressive club. There will be many special features, including everything in the fur-bearing line, and now, that the secret of tanning these furs has been discovered, it is making of the domestic animal one of our most valuable assets. All pet-stock breeders that exhibited at the Coliseum in 1917 know that this is the greatest sales show in the world and prices ranged higher than at any other show ever held in this country. If you did not exhibit in 1917, do not fail to send in your name at once and secure a copy. Remember that classes will be made and cash prizes paid on every kind of fur-bearing pets.—Theo. Hewes, secretary, Indianapolis, Ind.

A FEW REMARKS BY THEO. HEWES.

NOW that it has been decided to hold the annual meeting of the American Poultry Association in Chicago, we are glad to report to the readers of the American Poultry Journal that President Richards has acted upon our suggestion and arranged for headquarters at the Lexington Hotel, 22nd St. and Michigan Blvd. Practically all of the second floor of this hotel has been assigned to the poultrymen for this week at a very reasonable rate, and we would suggest that members who are intending to visit Chicago at that time make their reservations or at least advise the hotel what day or days they expect to be in attendance.

As we understand it, this year all frills and foolish entertainments are to be eliminated, and it is to be a strictly business meeting where important matters pertaining to the association and some plan looking toward better conditions for the commercial breeder during the period of the war are to have full consideration. While this meeting has been wished on Chicago, the members there making no effort to secure it, it is without question the logical place, and especially at this particular time and we hope that every member residing in the Mid-West district will make it his or her business to attend.

There are many things of importance that should have attention at that time and there are quite a few of the auxiliary associations

that are affiliated with the American Poultry Association which will hold their conventions at the same time. A good attendance is desired in order that proper legislative work may be straightened out many of the kinks that get into these auxiliaries during the twelve months intervening from one meeting to another.

Last year at Milwaukee about all that was done in the way of progressive work was to appoint committees. About 150 people were named on these committees and it was clearly evident at the time that they would not accomplish much, as the best committee that was ever appointed was a committee of three, where one man died and another got sick and the third man did the business. If we imagine that we can sit down and offhand name large committees with the expectation that these people are going to give a lot of valuable time to the association without any compensation whatever, we are simply making fools of ourselves. For now is the one time in the history of this country when every man must do something in order to keep his own head above water, and he cannot do justice to himself and his family and give this valuable time to someone else, unless he receives some sort of compensation for his time and energy.

* * *

The frost that visited Indiana on June 22nd was one of the most severe that we have any record of in this state. Just one week prior to the heavy frost was the hottest day that we have had in Indiana for twelve months, in fact, the hottest day except one during the entire season of 1917. The change in the weather came without rain or without storms; in fact, during the entire week preceding the big frost each night seemed to grow colder, and while the sun shone brightly during most of the day, it seemed to be lacking in heat, until finally the mercury dropped on Saturday night below freezing and thousands of acres of valuable farm products were injured and in many cases practically destroyed.

The frost waves seemed to travel in pockets and while the low land suffered the most in some instances, it reversed and crops in the valleys were not affected as much as they were on the ridges. Then again, a field of corn standing 2½ to 3 feet high would be seared as tho a fire had passed over it, while adjoining this corn field we sometimes find acres of tomatoes only about one-third as high as the corn that escaped with practically no damage. Then you would find a field all ap-

parently on the same level, a streak perhaps 100 yards wide would be free from frost, all of the foliage green, while on the other side perhaps twice as wide would be practically frozen to the ground.

Within the past few days, I have been over the greater part of Marion county and some of the edges of the adjoining counties, and while the general report is that the frost did not do as much damage as was first reported, my opinion is that it has done a great deal more damage than we first thought.

While it is true that the corn crop, if weather conditions are favorable, will come out providing the heart is not frosted, it will give the entire crop a setback of several weeks and it will never mature into the same quality that it would have under normal conditions. Viewing the situation now, four days after the freeze, I am convinced that the wisest thing for the farmers to do is to straddle the rows with a corn planter and replant the entire field. Should the frost remain off until the first of October, there is yet time to grow a corn crop and, even though we have an early frost, this corn will reach the stage where it can be placed in the silos for winter feed.

* * *

We have tried to get a line on poultry conditions in the state of Indiana and at this writing I believe the fanciers are as well provided with young and early hatched chicks as they were in 1917. Some are short of last year's productions, while many have more than formerly. May was one of the best months that we have ever seen, not alone in Indiana, but in any state we have lived in, there being no frosts and not a great amount of rainfall and early hatched chicks made rapid growth during this weather. The gape worm has affected some sections and where this pest has entrenched itself, there does not seem to be any remedy to cure it or even take it out of the soil and it will be necessary for breeders to discontinue trying to raise chicks on this ground; but where they have been moved onto new ground not contaminated, they have made wonderful growth and it is a common thing to see cockerels and pullets all of standard variety feathered out and even to hear the young males crowing. The trade in baby chicks and eggs for hatching has been better than in 1917. This demand has come from all sections of the country and it is especially gratifying to know that much of it has come from Canada, proving conclusively that regardless of their four

years in the war the Canadian fanciers have not given up and are still interested in the best there is in thoroughbred poultry.

The State Fair and Exposition are offering extra inducements this year for large entries and the Indiana State Board is making special classification that should call out the largest entry that we have had here for a number of years. Classification has been made in young and old pens in nearly all varieties, while in Barred Rocks and Brown Leghorns classes have been arranged for the light and dark matings. Breeders who are interested in this exhibition should send to Charles Kennedy, Sec., Indianapolis, Indiana, for premium list. The premiums here are very liberal on all breeds, with only a 25-cent entry fee on single birds and \$1 entry fee on pens. W. W. Zike and W. P. Overman will look after the interests of the poultrymen and no better selection could have been made.

United Exhibition Coop

The Best and Why



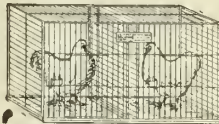
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450 Rooms

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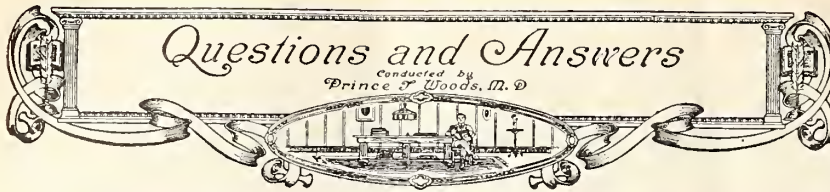
Please reserve for me, commencing August 12th,
..... rooms (with) bath at \$..... per day

Name.....

Address.....

Questions and Answers

Conducted by
Prince T. Woods, M. D.



Questions about poultry are answered in this department free for all readers of American Poultry Journal. Where answers are desired by mail, a stamp for reply is requested. Address all query letters to the managing editor, Dr. Prince T. Woods, Lock Box 4, Silver Lake, Mass.

Lice.

Q. I am a beginner and have three lots of chicks with hens. They started fine but now they are almost all feathered out, they drag their wings on the ground and stand around all hunched up. A few have diarrhoea. They all eat plenty, but seem to have stopped growing. Can you help me?

Hartford, Conn.

A. The chicks are probably infested with lice. Clean out the brood coops and either whitewash them inside and out, or paint with crude petroleum both inside and out. Let coops dry well before chicks occupy them. Apply a little carbolated petrolatum to heads of chicks. Dust the old hen thoroly with a good lice powder, working it well into the feathers down to the skin. You ought to be able to take the hen away from the chicks now. Give chicks a good green run, plenty of cool, clean water to drink, granulated charcoal, grit and fine crushed oyster shells, and feed liberally on wholesome food. See that they have shady shelters to protect them from the sun and from storms. If they have been running some time on the same ground, move them to new soil. Spade up the old run and plant to oats or rye.

Wintering Old Hens.

Q. I have about 80 hens which I bought last fall at \$2 each. They were two years old last spring. I fed them well but they did not lay much until February. Now they are beginning to drop off in egg production and a few are losing feathers. Would you advise me to summer them on free range and keep them over another winter? We intend to can a few of them.

Plympton, Mass.

A. We certainly would not carry any three-year-old hens thru next winter, unless perhaps a few exceptionally fine breeding birds. Evidently you have none such. Better begin canning the non-producers. Use what you need for the home table. Any you do not need for home use or for canning it will be well to fatten on whole corn and mash for two weeks and then sell for market purposes. They will bring a good price at this

time. For what the hens will bring per pound, when properly fattened, you should be able to buy, at a similar price per pound, good early hatched pullets around the last of September or first of October. Fill your poultry houses up with early hatched pullets of some one good Standardbred variety. Give them good green runs and liberal feeding when you first house them. Keep them well fed and you should have a first-class egg yield all winter at lowest production costs. You can get results with the early pullets, but we do not believe that you can make the three-year-olds pay their board next winter. Watch the ads for bargains in early pullets; some good opportunities for purchase are, or soon will be, available. Do not buy several varieties. Get all of one variety; it will be easier to make them do their best in egg production.

Mites.

Q. I have been having bad luck with sitting hens used to hatch a few summer chickens. The hens either leave the nests and refuse to sit, or they grow thin, get diarrhoea and die on the nests. What is wrong?

Manchester, N. H.

M. A. B.

A. The nests for sitters are probably infested with red mites. Burn all old nesting material. Clean out the nests and give them a good coat of crude petroleum both inside and outside, working it well into the cracks. Dry the nests well in the hot sun. In making new nests, put a piece of grass sod in bottom of nest, earth side up. On this build nest of clean bright soft hay. Dust all hens well with a good lice powder before placing them on the nest.

Trap-Nesting 500 Layers.

Q. On a small egg farm, say 500 Leghorn hens, would it be practical to trap-nest every day to increase the efficiency of the flock? Does the constant daily handling of the hens, necessitated by the trap nest, have a tendency to retard the laying qualities?

Westwood, N. J.

G. A.

A. Trap-nesting will not increase the efficiency of the present flock. To trap-nest 500

layers requires considerable outlay for nests and a great deal of labor. The handling of the hens, if properly done—gentleness is necessary, for rough handling immediately after laying may injure the bird—will not have any effect upon egg production. Better select a reasonable number of best quality specimens for prospective breeders, and trap-nest them. Choose the best layers in this select flock to breed from next spring. The birds which are kept and forced for market eggs need not be trap-nested.

Best Breed.

Q. What is the best breed for a beginner to keep? I want to get plenty of eggs for home use; do not intend to breed and raise chickens, as there is not room enough on our back lot.

Columbus, O.

M. E. T.

A. There is no best breed. Any one of the popular breeds of fowl should answer your purpose. R. I. Reds, Plymouth Rocks, Wyandottes, Langshans, Leghorns, Anconas, and many others will fill all your requirements. You do not need any male bird. Buy good, early hatched pullets of any one variety which pleases you and take good care of them. You will get a good egg yield if you feed them well. Do not buy several different kinds. Buy pullets of one variety only, the one which suits you best.

Loss of Feathers From Back.

Q. Please give remedy in A. P. J. Right on the back, close to the tail, the feathers have come off and also some of them from top edge of their wings. There are no mites on these hens and I do not know of any lice or mites on the place. All the hens seem to be perfectly healthy and laying well.

Winston-Salem, N. C.

P. M. L.

A. There is nothing wrong with your flock. Simply take the male birds away from the hens and let the hens have a good, well-shaded green range for rest of summer and fall. Loss of feathers on backs and tops of wings is due to the attentiveness of the male birds. As you are no longer needing eggs for hatching purposes, remove males from flock.

Torn Backs.

Q. A number of hens have badly torn backs. What is the cause?

Lexington, Ky.

E. C. C.

A. Sharp edges and points on toe nails of male birds, and possibly sharp spurs. Examine males and with a pocketknife and flat file blunt the edges and points of toe nails, also if the spurs are long and sharp, blunt these also. For hens so injured, cleanse the wound thoroly with warm water, dry the parts and apply a good ointment like germicide or unguentine. If the tear is extensive, freshen

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BRONZE TURKEYS

BIRD BROTHERS

BOX C

MEYERSDALE, PA.

the edges of the tear, trim off all ragged parts and draw the edges of cut together with a few stitches, using clean white silk. Remove the stitches in four or five days. Be sure that all dirt is removed from wound and that it is clean and healthy appearing before you attempt to close it up. Keep such hens in coops by themselves while wound is healing. It is better to bed them with straw than to permit them to roost on perches.

Slight Colds Among Young Chickens.

Q. Some of my half-grown chicks sneeze and seem to have slight colds. They are free from lice and kept in clean coops. Have about 50 chicks in a small colony coop. It is closed up well at night.

Lowell, Mass. H. D.
A. Rub a little camphorated petrolatum into nostrils and cleft in roof of mouth. You are crowding your small colony coop and closing it up too tightly at night. Divide the flock into two groups of 25 chicks each and house separately. See that a part of front of coop is kept open at night, using only fine mesh wire netting over opening.

Langshans as Layers and Mothers.

Q. I notice you keep Black Langshans. Do they make good layers and good mothers? Can you recommend this breed for a beginner in back-lot poultry keeping? I have a good-sized back lot, always have a good garden and have room to grow a few chickens and to keep a fair-sized home flock. I like the looks of the Langshans. Is it easy to confine them?

Des Moines, Ia. C. R. T.
A. The Black Langshans are admirably suited for back-lot poultry keeping. They can be easily confined with a four-foot wire fence, provided you keep them well fed, contented and do not permit them to get the habit of going outside the run. If they once get the habit of going over a fence they will either walk up it or fly over, and can only be kept in by wire over top of run. We find them exceptionally fine mothers, good sitters and especially good to raise broods. They are gentle and easily handled if the attendant makes friends with them. Tho a heavy fowl, they are as nervous and active as Leghorns, but are easily kept tame. Ours stay with their broods long after they begin to lay again as a rule, sometimes keep with the chicks until the whole brood is well feathered out and often will begin roosting together if opportunity is given. This year we used Langshans exclusively for hatching and rearing. The hen mothers are very good foragers and are absolutely fearless in protecting their brood, and will attack hawks or dogs which come prowling around. As layers we have found them about on a par with our heavy laying White Rocks.

Wants to Start With Reds.

Q. (1) I am interested in poultry and take A. P. J. at the news stand. Have a small place just out of the city on the car line. I want to make a start with good poultry, something I can get results with and have the fun of showing good chickens. The Rose Comb Rhode Island Reds look good to me. Would you advise starting with this breed?

A. (1) You will find the R. C. Reds well suited for your purpose. They are fine producers, make good table poultry, and breeding them for exhibition is sufficiently interesting to suit any fancier in the making.

Q. (2) How would you start? With eggs? Baby chicks? Or a dozen good breeders? I would like to get started this fall.

A. (2) If you start with eggs or chicks you will find it best to make an early beginning in the spring. For a start this fall, you will find bargain offerings of breeding stock now advertised. Better get the best small flock of mated stock that your money will buy. Say half early pullets and half good vigorous yearling hens and the best male bird you can get. Put it up to the breeder to mate the birds for you.

Q. (3) Would you advise me to wait until the fall shows before buying breeding stock?

Buffalo, N. Y. H. E.
A. (3) Better buy the stock now. Buy breeding stock, not exhibition stock, and ask to have the birds properly mated to give good results in producing exhibition quality. You will not be exhibiting this fall, but next year you will have the pleasure of being able to show stock of your own raising. Before you buy your birds, be sure to get ready a suitable house and run to keep them in. Consult the advertising columns for offerings of breeders of R. C. Rhode Island Reds.

Heavy Laying Leghorns.

Q. I am interested in Leghorns—the S. C. White variety—and would like to establish a strain of heavy layers. I want chickens that are good to look at and some of the pictures

of the record layers look like frights. Isn't it possible to have a hen good to look at and able to lay lots of eggs at the same time? What is the best way to go about starting a strain?

New Rochelle, N. Y. D. S.
A. It takes years of careful breeding to establish a strain. Standard beauty can readily be combined with heavy laying. Never could understand why the egg record faddists so generally find their freak layers among the unattractive specimens. We have seen some alleged record layers that look like no other fowl on earth and remind one of the ruin of a misspent life. If you start right you can combine eggs and beauty. Build the foundation of your flock with good Standardbred breeding stock selected from good average layers. Phenomenal layers seldom reproduce their like. Good average layers will usually beget good layers. Select a breeder known to produce good Standard quality stock and who can show records of excellent egg production. Get from him good average layers or pullets out of such. Insist on good Standard type and quality. Secure of the same breeder a related male of good Standard type and quality, preferably one from a heavy laying dam and grandam. Breed this stock in-and-in, always breeding from the best average layers that show excellence in Standard quality.

Heavy Laying Light Brahmas.

Q. I like the appearance of Light Brahmas but am told that they are heavy feeders and not very good layers. Is this true? I have not kept poultry for a long time, but a number of years ago used to read about a heavy laying strain of Light Brahmas. Do you know the record of any of the Brahmas kept in Massachusetts about 20 years ago or more? Would you advise me to try Light Brahmas on a town lot?

Albany, N. Y. B. H.
A. Reliable breeders are still advertising Light Brahmas that lay and pay. You will find them good layers and fine fowl for the town lot, if you buy stock from a good laying strain. Probably you refer to the Hartnest Farm Light Brahmas and their famous hen No. 61, with a record of 233 eggs. This farm lost heavily by fire and went out of business about 18 years ago. There are plenty of good laying Brahmas today. Some specimens are heavy feeders, but if one seeks heavy pro-


ducers in any breed he must look for them among the good feeders. Like dairy cows, the big producers are good eaters; it is not possible to get something from nothing. Brahmas of a good reliable productive strain can be depended upon to deliver as good value for the feed they consume as will any other heavy breed—in fact some of the heavy fowl will give the lightweights a good run for the money.

Curing Clover Rowen.

Q. I am going to have a good second crop of clover on land where I used to keep chickens. What is the best way to cut and cure it for winter use of poultry?

Worcester, Mass. C. L.
A. Choose a day that promises to be bright and fair, with a warm, gentle breeze. Cut early in the forenoon, before the dew is dry. Spread well and let lie until the middle of afternoon. Then when it has just wilted, rake into small heaps or cocks; let lie to "sweat" in cocks until next morning. When sun is well up, open the cocks and turn over a few times to dry it. Put under cover before the dew falls. If it shows any tendency to heat, dry by spreading and turning while under cover. Do not shake up sufficiently to break off the leaves. If dried too much the clover loses much of its quality as a winter feed. Before feeding cut into short lengths with a clover cutter. We do not know of any better winter feed than good, well-cured clover rowen. We prefer it to alfalfa.

SAVE FEED MONEY

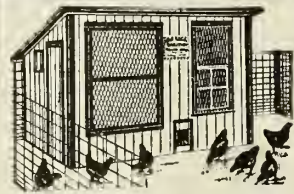


Conserve now by using IDEAL Economy Dry Feed Hopper—stops waste, keeps out rain, rats and birds. Weight of fowl on step opens door inward when feeding; automatically closes on leaving. Roll bottom prevents fowl from hooking out or wasting feed. Constructed of galvanized iron, designed for feeding whole or cracked grain, dry mash, grit, oyster shells, etc. It saves work, can't clog or get out of order. See your dealer today; write for information and literature.

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A \$6.60 Potter Outfit

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Sanitary, portable, inexpensive. You start right when you install Potter outfits—roosts, nests, drop-boards coops, hoppers, etc. Get rid of makeshift, unsanitary disease-breeding fixtures and make a bigger success of your flock.

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From pens headed by other winning males, at New York, Boston, Oxford and Syracuse, 1917-18.

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Don't expect to make your hens pay and permit lice to worry and annoy them. The lice will get the profit and often the hens and chicks, too. A few cents invested in Death to Lice will bring dollars in profit. Just the thing for layers, sitters, and exhibition stock. Will not injure eggs, chicks or hens or soil plumage. Get a 5 oz., 10c box at dealers to try (or send us direct if he can't supply you). Other sizes 25c, 50c and \$1.00. Lambert's Latest copy of "POCKET BOOK OF POINTERS," a valuable book for poultry raisers. Mailed for 2c stamp.

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S. C. W. Leghorns W. Wyandottes
S. C. R. I. Reds Buff Orpingtons
\$5.04 PER PULLET in 5 winter months
that's the prize-winning record for value of eggs laid by our pen of 6 Leghorns at Leavenworth in the severest winter known. Our champion pullet No. 1104 laid 28 eggs in coldest January in 38 years; our pen of five Leghorns laid 105 eggs same month. Merely another proof that our perfected *Empire* 200-Egg Strain leads in every competition. OTHER RECORDS: 294 eggs in 359 days laid in last N. A. Egg Contest of all breeds. First Prize Leghorns N. A. Contest, 6 hens laid 1133 eggs; Reds 1st prize, 6 hens laid 1043 eggs; Wyandottes, Missouri Egg-Laying Contest, 10 hens laid 2005 eggs. Most profitable poultry known—cockerels, pullets and hens from champion pens. Write today for book, "Story of the 200-Egg Hen." Price, 10c, refunded on first order. PENNSYLVANIA POULTRY FARM, Egg, A LANCASTER, PA.

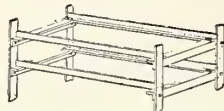
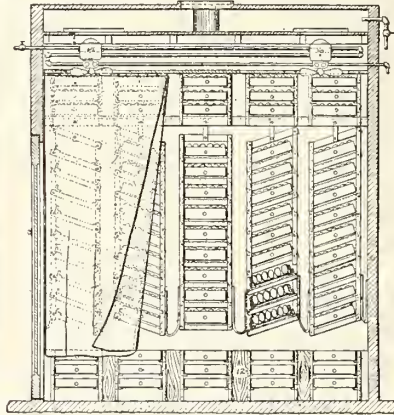
KNOWN FROM COAST TO COAST
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ROUTE 36, BOX A

Mention the American Poultry Journal when writing to advertisers.

Recent Inventions for Poultrymen

By Lester B. Sargent, Patent Attorney, Washington, D.C.

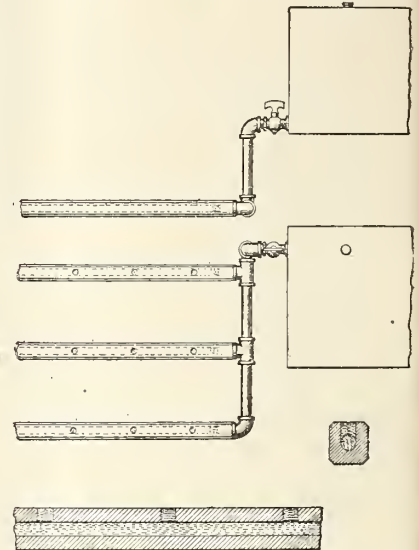
AN INCUBATOR of large dimensions and adapted to contain thousands of eggs in separate trays arranged in tiers is the subject of patent 1,262,860, recently granted to Samuel B. Smith, of Cleveland, Ohio. The incubator is of a combined hot water and hot air type. Hot water pipes are provided at the upper end of the chamber and the heated air caused by these pipes is continuously circulated thru the chamber and above and below the various tiers of egg trays by fans arranged close to the heating pipes. The hot air is circulated in a column with such speed as to keep the temperature substantially uniform. The egg trays are provided with open mesh bottoms, upon which the smaller ends of the eggs rest in close and solid formation. Each tray of eggs occupies the



Mammoth Incubator, patented by Samuel B. Smith, Cleveland, Ohio, and assigned to the Buckeye Incubator Company, of Springfield, Ohio. Patent No. 1,262,860.

upper rack for the first three days and is then transferred to a place in the upper end of the tilting racks on a lower plane. During the next fifteen days the trays in the tilting rack are shifted from higher to lower planes and tilted at frequent intervals to stand in oppositely inclined positions. When the eggs in the lowermost trays in the tilting racks are about ready to hatch, each tray is transferred to a stationary rack at the bottom of the incubator chamber where the chicks may be removed as occasion requires. Each tilting rack comprises perpendicular corner bars pivotally united by a series of cross bars carrying connecting angle irons extending from front to rear at each side and upon which the trays are adapted to be slidably supported. The links are pivotally connected at the center of the uppermost cross bars of each tilting rack, thus permitting an entire series of trays to be placed in an inclined position by merely raising or lowering one side of the rack by hand. The fans are mounted on trap-doors forming the ceiling of the central corridor.

An antivermin poultry perch having adjustable plugs has been patented by George B. Allison, of Willis, Michigan. An elevated supply tank is provided,



Antivermin Poultry Perch having adjustable plugs, patented by George B. Allison, Michigan. Patent No. 1,263,015.

from which the insecticide is automatically fed to the various hollow poultry perches. The conduit leading into the channel of each perch is provided with an adjustable dripping plug by which the quantity of insecticide supplied to the perch can be regulated readily. This plug is of tapered form, threaded exteriorly, and provided with longitudinal grooves for the flow of a small quantity of the insecticide. It may be applied to ordinary perches by grooving them out and then covering with a strip of wood thru which the insecticide may seep. Or specially prepared perches may be used, already channeled from the flow of insecticide thruout their length, the insecticide being of a character suitable to exterminate any vermin the poultry may have acquired, and adapted to keep the poultry house in a wholesome state. Patent No. 1,263,015.



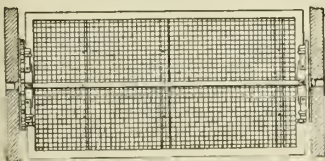
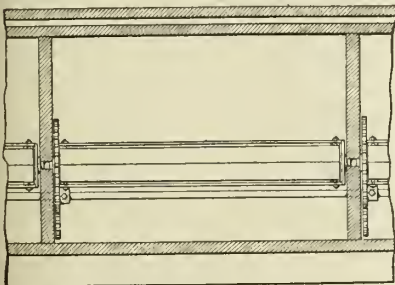
Egg Grader, invented by Oliver C. White, Gardena, California. Patent No. 1,259,181.



California Fresh Extras showing graded eggs and egg grader.

An egg grader, invented by Oliver C. White, of Gardena, California, grades eggs by weight. It comprises a balanced beam, formed of sheet metal, a pair of standards, means pivotally connecting the beam to the standards, a threaded rod mounted under the beam and extending both ways from the center, an adjusting weight on this rod, and an egg receptacle at one end of the beam, which is counterbalanced by a weight at the other end of the beam, sufficient to overbalance one egg. In short, the device grades the eggs by weight. The device weighs eggs of any and all grades, having a weight capacity of from 18 to 29 ounces to the dozen, graduating by the one-twelfth ounce. Patent No. 1,259,181.

An insecticide poultry perch devised by Warren E. Wallter, of Charles City, Iowa, has as its novel feature an absorbent covering moved on an apertured pipe thru which the insecticide flows. A trough-shaped metallic strip secured to the bottom of the covering, longitudinally of the perch, prevents the insecticide from dropping from the perch. Patent No. 1,262,880.



Incubator, patented by Howard L. Davis, Plumstead, N. J., and assigned to Harold L. Watson, Lancaster, Pa. Patent No. 1,259,726.

An incubator devised by Howard L. Davis, of Plumstead, N. J., and assigned

to Harold L. Watson, of Lancaster, Pa., has removable egg supporting trays in each compartment, which are connected by a series of gears with a shaft extending longitudinally thru the compartments. The operation of this shaft causes the trays to turn, simultaneously, or selectively, as desired, to shift the position of the eggs in the tray, thereby permitting the proper positioning and adjustment of the eggs during the period of incubation. Patent No. 1,259,726.

CLOVER FOR CHICKENS.

S. B. WENGER, South English, Iowa.

ONE of the greatest questions of today is economy. Not for the sake of accumulating finances, but from the standpoint of food production and conservation to keep the wolf from the door of the human family at large. That actual starvation is facing the world is without question. How to meet the food emergency and lessen the awful horrors of starvation of the nations of the earth which will follow the world's greatest war tragedies is the question that confronts every individual.

We have come to a time when it is not only our duty to obey the war emergency food regulations but to aid in every conceivable way to add to the food supply. One of the ways in which nearly every family can help is in using up the waste matter by raising poultry for food. There is nothing else that will produce as much for the table as to use up the scraps and waste matter in feeding chickens. They will come nearer thriving and producing from waste and from their own findings than anything else that furnishes food for the human family.

In order to aid in this matter it is highly important that we study the feed problem to carry them thru the winter months and have them producing eggs during that period economically. One of the best poultry feeds for the winter season is clover and alfalfa put up in the form of hay. A half ton or even a few bales of good clover hay packed away in the shed or poultry house will furnish feed and scratch litter. They will eat off all the leaves and heads and save much expensive grains and other feeds, and will produce more winter eggs than when fed altogether on grain. This summer, while the hay supply is abundant, is the time to prepare the winter's supply of clover. It may be common red clover, sweet clover, alsyke, white clover or alfalfa. Much of this could be gathered along the roadside right-of-ways or waste lands, which is going to waste. This would enable people in very limited circumstances, having only a limited number of chickens, to feed them with very little expense and greatly increase food production. One dozen eggs will weigh one and one-half pounds and is probably the equal of that much meat. You will not only be furnishing your own table, but you may be saving the life of some less fortunate person than yourself. Do not fail to put up some clover for your chickens. It should be cut while green and well dried, without having been rained on, and put into dry quarters. Regular feeding will be almost the equal of sprouted grain.

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LAY WINTER EGGS**

For eighteen years Ferris White Leghorns have been bred to lay more eggs at all seasons than ordinary hens, and to lay particularly well in winter when eggs are highest. We do not breed from hens that are not good winter layers. We can't afford to, for with one of the largest poultry farms in the country we must have winter eggs to make it pay.

Thousands of poultry keepers in all parts of the country are having unusual success with Ferris stock; hundreds of customers in Canada also, and we have made successful shipments to Scotland, Japan, Australia, Nicaragua, Alaska, Philippine Islands, Bermuda, Cuba and Mexico. We guarantee safe arrival anywhere.

ALL STOCK IS SHIPPED ON APPROVAL. You can return within three days any birds not satisfactory and money will be refunded. (We will ship C. O. D. if you want to see the birds before paying for them. Send only \$1.50 for a pen of five, and 20 cents each for larger numbers to guarantee express charges.) We insure all stock for 30 days. Any birds that die or get out of condition will be replaced free of charge. Their breeding value is also guaranteed. Any male that does not produce fertile eggs, any hen that does not lay hatchable, good-shaped eggs replaced free.

Special Aug. and Sept. Prices

We have three grades of laying stock. Stock from our heaviest laying strain with trapnest records of 230 to 264 eggs will cost as follows.

EARLY HATCHED COCKERELS
\$9.00 each, \$8.10 each for 10 or more. Yearling hens or early pullets \$4.50 each—1 male, 2 females, \$18.00; 1 male, 4 females, \$27.00; 1 male, 8 females, \$40.50; 1 male, 12 fem., \$54.00; 7 males, 100 fem., \$385.20.

STOCK FROM 200 TO 230-EGG STRAIN—the kind we recommend for breeding and laying where large flocks are required: Early hatched cockerels \$6.30 each, \$5.40 each for 10 or more. Early pullets or yearling hens \$3.15 each; 4 females, 1 male, \$18.90; 12 females, 1 male, \$42.30; 100 females, 7 males, \$294.30; 100 females without males, \$256.50.

UTILITY STOCK FOR LAYING AND BREEDING. Not bred from trapnested stock, but from stock that we can guarantee to be better than the average. Cockerels \$4.50 each, \$3.60 each for 10 or more. Hens \$2.25 each, \$180.00 per 100. Pullets \$2.70 each, \$225.00 per 100. Four hens, 1 ckl., \$13.50; 12 hens, 1 ckl., \$28.80.

WINNERS FOR ANY SHOW. We can furnish cocks and cockerels hatched directly from our Chicago Coliseum winners at \$30.00 to \$100.00. Hens and pullets at \$15.00 to \$50.00. These birds will win at any fair. They have splendid low tails, good heads, wonderful shape in every section, and pure white plumage. We have hundreds of early hatched cockerels and pullets to select from and will guarantee them to please you. Remember that for several years Ferris Leghorns have been leading winners at the Chicago show, winning in 1915, 3 firsts and numerous other prizes, including silver cup for best display and silver cup for best five cockerels. In 1916 we won all specials, all 1st and 2d prizes; last Dec. we won 3 first and 16 other prizes, so no matter where you wish to show, we have the birds that will win for you.



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Send for your copy today. Describes fully the stock, eggs and chicks quoted a b o v e. Contains photos showing 35 acres of White Leghorns; describes our methods of feed and care; how we improve laying qualities; list of winnings at 20 big shows; many letters from customers; prices of exhibition, breeding and laying stock, eggs for hatching and day-old chicks. Even if you are not now in the market for stock, we will be glad to send you a copy. Mail postal now while you have the matter in mind.

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Poultry farm and gentleman's country home, up-to-date and most complete equipped poultry farm, doing a world-wide business. Stocked with the best and most famous flock of White Leghorns in the United States; nine acres, two modern houses, one a bungalow; barn with basement, garage, six main poultry houses, forty-two colony houses, well painted and in good condition, located on one of the most beautiful lakes in Central New York, State road; business nets \$5,000 a season, price \$20,000. It's a wonder, send for descriptive circulars.

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CHAMPIONS OF NEW ENGLAND and equal to the best, anywhere. Consistent heavy winners at Boston and the largest shows the past five seasons.

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5000 Selected White

Leghorn Pullets Utility Stock 90c each; 300 ckl. selected from 5000 cockerels, \$1.00 each.

White Leghorns and Light Brahmas
From best in America
Pullets, \$5.00 Cockerels, \$5.00

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999 QUESTIONS AND ANSWERS



124 pages. No matter what question arises, this book gives the answer in a few words. Questions for the fancier; about feeding, correct rearing of chicks, what and how to build, diseases, incubation, breeding turkeys, ducks, geese, etc. Paper, 50c; cloth, 75c. American Poultry Journal Pub. Co. 523 Plymouth Court, Chicago, Illinois

THE STOCK YARDS VETERINARY LABORATORY, 105 Laboratory Bldg., Kansas City, Mo., is distributing, free of charge, a booklet written by its experts on the care and management of poultry, with special articles showing you how to increase your egg production. Write for one.

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Booking orders for show birds. Breeders half price. DEYOE'S Station 1 DODGEVILLE, WIS.



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Arlington Reds

Single comb Rhode Island Reds only. Second display New York State Fair, 1917; Third display Madison Sq. Garden, 1918. John E. Mack, - Box B, Arlington, Dutchess Co., N. Y.

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United States Fuel Administration

Washington, D. C., June 27, 1918.

Mr. Herbert H. Knapp, President International Baby Chick Association, Tiro, Ohio.

My dear Mr. Knapp: I beg to acknowledge your letter of June 13, addressed to Mr. Meyers.

The situation for the coming winter and spring in connection with chestnut anthracite coal for use in brooders and incubators is as follows: Because of the domestic requirements of the northeastern section of this country, comprising the New England states, New York, eastern Pennsylvania, New Jersey, Maryland and Delaware, and the absolute necessity of taking care of the actual needs of that section of the country with anthracite coal, because on account of transportation conditions, it is only possible to give that section bituminous coal in sufficient quantities to enable the essential war industries to continue in full operation, it has been necessary to materially reduce the amount of anthracite coal normally shipped into the state of Ohio, Indiana, Michigan, Illinois, Wisconsin, Minnesota, and North and South Dakota, and to eliminate entirely the other states west of the Mississippi and south of the Ohio and Potomac rivers excepting Virginia. It is realized in connection with the poultry proposition that this to a certain extent is going to cause some hardship, but in a state like Tennessee screened coke can be secured if an earnest effort is made sufficiently early in the season to do so. In so far as Missouri is concerned, or even Nebraska, they can secure western anthracite coal either from Colorado or Arkansas, or use screened coke, and action should be taken to protect their requirements of next winter and spring just as soon as possible and to get in the modest amount usually required

by each of the individuals so that they may have it on hand when necessity requires. It is suggested that prompt advice be given to the poultry raisers of the middle states mentioned where the amount of anthracite coal normally moving to those states is going to be reduced that they should undertake during the summer months to get such anthracite coal as is required for incubator and brooder use and to put it away in order to protect their requirements next winter and spring.

The situation is going to be such next winter that the administration cannot undertake to do what we did last winter because of the fact that specific allotments of tonnage have been made not only to states, but within a very short time will be made to communities as well, and if a certain community next February or March has received what it should have received under the allotment given to it, it will not be possible to get an additional car or two even to take care of incubators and brooders. It is the belief of the administration that this information should be given as much publicity as possible and that the poultry journals should be advised to this effect, and that the Candee Incubator Company and others who circulate literature among their patrons should also give the advice indicated above.

If every poultry raiser will undertake during the summer and early fall to get the fuel which he requires for next winter and spring's use, and in cases where anthracite coal has been eliminated from the states mentioned to secure either one of the western anthracites or screen coke, we are certain that little or no difficulty will be experienced by the growers as a whole in being able to raise their full quota of chickens next spring.

Very truly yours,
U. S. FUEL ADMINISTRATION.
By A. S. Leary,
Director Anthracite Distribution.

American Laying Contest.

By T. E. Quisenberry, Leavenworth, Kansas.

If I had ever had any doubt about a good Standardbred hen, containing exhibition qualities, being able to lay a profitable number of eggs, that doubt would now be dispelled. In Orpingtons, Plymouth Rocks, Reds, Wyandottes, Leghorns, Sussex and practically every variety in this contest, there are females among the highest layers which are also high scoring birds. Most of the birds in our present contest come from Madison Square Garden, Boston, Chicago and Kansas City winners at other of America's best shows and best advertised exhibition strains. Many predicted that practically all of these birds would make a disgraceful showing because they were largely Standardbred exhibition birds. Their record has been a creditable one in practically every case. Nearly all of these varieties have individuals going well over 200 eggs, judging from present indications. Our best record has been 218 eggs in eight months, by a yearling White Rock hen.

Why should not a Standardbred bird lay? Or why should not both Standard qualities and egg-laying ability be combined in the same fowl? The body of both are about the same. The head and tail is where the main difference is between a Standardbred bird and what is ordinarily known as a utility bird. In a Standard bird there is a neatness and carriage to tail and head that is produced by careful selection and breeding. In the ordinary layer no attention is given to head and

tail points or to disqualifications in many cases, just so the bird will lay a large number of eggs. But the body in both cases is practically the same. So is it not reasonable to believe that these minor head and tail points can be bred into a good layer? It can be and is being done.

One yearling White Plymouth Rock hen has laid 218 eggs in eight months. This is our best record to date. Another White Leghorn pullet has a record of 204 eggs for the same time. These are our two best records. The forepart of June was said, by the weather man, to be the hottest weather known for many years. In spite of all we could do we lost eight hens one day from overheating and a like number on the following day. The egg yield was cut down some by the excessive heat and by having to feed a ration composed largely of corn because of government regulations.

The best pen record in the yearling hen contest is a pen of White Rocks from Illinois with a record of 655 eggs.

The five best pen records to date in the Leghorn contest are as follows:

Pen No. 110—Pennsylvania848 eggs
Pen No. 70—Washington799 eggs
Pen No. 132—Kansas774 eggs
Pen No. 90—Maryland770 eggs
Pen No. 104—Illinois761 eggs

The following table gives a complete summary of what the exhibition pullets accomplished during the month of June. Each of the following varieties is represented by 15 pullets:

Variety—	June Leader Eggs	Best Pen for June Eggs	Av. Pul. 8 Mos.	High Layer, 8 Mos. Eggs	High Pen, 8 Mos. Eggs
Black Leghorns	25	95	122.7	155	743
Brown Leghorns	28	83	111.0	152	617
Buff Leghorns	26	101	137.3	176	749
White Leghorns	26	115	133.9	179	721
Anconas	24	94	91.9	153	669
White Rocks	23	88	114.7	154	620
Buff Rocks	19	60	94.9	141	507
Brown Rocks	22	83	120.2	136	696
White Orpingtons	29	94	123.1	172	737
S. C. Reds	28	103	122.3	162	662
R. C. Reds	24	109	118.5	150	699
R. I. Whites	25	100	115.4	179	729
Silver Wyandottes	20	65	108.6	178	573
Columbian Wyandottes	22	92	78.0	140	489
White Wyandottes	24	88	130.3	153	748
R. L. Sussex	26	92	120.1	162	739
Sp. Sussex	25	71	93.8	158	473



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Seasonable Hints for Pacific Coast Breeders.

By Susan Swaysgood.

ALL accounts from both Coast and interior poultry centers tell a story of shortage. Not only did eggs hatch poorly, but the chicks did not live, nor thrive as usual. This may be partly due to a late, changeable spring, but it is more likely to be want of stamina in the parent birds, owing to change of feed and in many cases an unwise selection of feeds. But no matter what is the cause, the fact remains that the crop of laying pullets for fall and winter laying is very far below normal, and that at a time when we really need an abnormally large crop. Our boys will be coming home, in fact some are here now, but later they will be coming in large numbers; and what are we going to say to them or to the doctors who order the wounded convalescents eggs and chicken?

Nothing we can say will increase the production of either, but we need not be confined to saying, let's all buckle in and do some fall hatching. Fall hatched chicks are easy to raise, the broilers or fryers come ready at a time when prices are about the limit, and if the pullets are from good stock they will be ready to lay in January or February at latest, just when the hens that have laid all winter are needing a rest. But you need to set about it now—not wait until the time chicks should be out.

If the hens are in yards free from males, the only difference that need be made in their treatment is to furnish a little less forcing feed in the form of mash and beef scrap and to make them exercise for what grain feed they get. If there are males in the yards during July or August, until you put them in for breeding purposes, then you are not a good poultryman or woman; because you are not furnishing strictly fresh eggs to the market. All eggs that contain germs of fertility during these hot days commence to deteriorate almost as quick as they are laid. Every slight movement, every exposure to an increase of heat, such as carrying to town in a buggy or auto, starting the living germ into activity, the next cooling they get the germ dies and we have a deteriorated egg.

So I am judging that careful poultrymen are running their yards on the "no male plan," so that the hens are being rested and are free from annoyance. The males should be well dusted to keep them free from lice, and well fed to keep them up in good life. A little fresh meat of some kind once or twice a week is a great help to male birds; we must not forget that some males are so chivalrous that when with hens they almost starve themselves, so they need extra care when separated. Instead of throwing them into a dirty hen-house with a handful of feed and water that is left to stagnate, because the males are not needed just then, they should be well looked after, so that when they are put in the yards there will be no doubt about the fertility of the eggs.

The best time to mate up the yards for fall hatching is when both hens and males are in good condition, about the middle of August. If the weather is very hot the yards should be well sprinkled every day about mid-day and every evening, and the eggs should be gathered twice a day and stored in a cool place. It is not wise to keep them too long before starting to incubate, not over one week if it can be helped, and less time is better. I always like to get chicks out in a growing moon, especially fall hatched chicks, and this year the growing moon comes in on the fifth and lasts till the twentieth. So it will be seen there is quite a margin to choose from, allowing ten days for the eggs to get fertile after mating, if there are hens enough to supply an incubator or two full of eggs in four or five days there is time to get chicks out in the September growing moon. If fed right and cared for they keep on growing and are not near so much trouble as spring hatched chicks, because all the nice fall weather they can be outdoors enjoying the sunshine, and the green feed is not so watery as it is in the spring months. In fact, nearly everything is in favor of the fall hatched chicks. I have seen 1,600 Leghorn chicks wintered in a tent. They were hatched about the middle of September and brooded right in the tent in lamp brooders; when they were 8 weeks old the brooders

were removed and a load of straw dumped into the tent, covering one-half, then a set of perches was arranged over the remaining half, and in January the cockerels were sorted out and sold and the pullets left in, and by the middle of January 50 per cent of them were laying. The 1,600 were raised with a mortality of 7 per cent and without a sign of roup or cold of any kind.

That was before the day of open-front houses too, but it was conclusive proof to me that fresh air, administered rightly, was the best antidote for chickens of all ages.

Chicks raised in the open are more healthy than those raised in heated, closed houses, and in nearly all parts of our country, especially on the Western coast, September and October are ideal months for chicks to be in the open.

Now it is not at all probable, no matter how or at what angle we look at the poultry business from, that eggs will be cheap for a long time to come. I never predict very large prices for eggs, because there is a limit to what people will pay for what they call luxuries, and unfortunately for the poultry business the people are not educated to a proper value of eggs and poultry as necessary foods. As long as these articles of food are deemed luxuries, of course economical people fight shy of big prices; but even so, there is not a doubt in my mind but that eggs, even pullet eggs, will bring the producer 50 cents a dozen clear next January and along until eggs are plentiful in spring.

If this is so, and common sense tells us it is so, would it not pay to go to some trouble in getting out one or two fall hatches. Chicks hatched up to the middle of October would make good, but after the hens get into heavy molt it would not be profitable to use their eggs for hatching. The time to do anything is now, there is no other time; the eternal now is all the time we can be sure of, and that is the time to do things—tomorrow may be late. Crop reports are like everything else—unreliable in general—because they are judged without taking the freaks of the elements into consideration, but after the season's work is done in the poultry yards and returns are in, it is a fairly safe thing to accept reports as being accurate, or nearly so. Then the next safest plan is to act on the reports and try to gain some benefit from it. This can only be done by acting promptly; there is not a whole year to think about it. The best way to hatch fall chicks is to hatch them as quick as possible and think afterward.

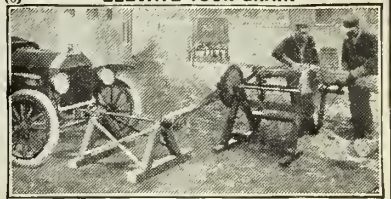
The National War Emergency Poultry Federation.

The first annual meeting of the new organization known as The National War Emergency Poultry Federation was held in Chicago, July 15-18, 1918. The first day was given over entirely to the work of the advisory council. The second day and the forepart of the third day were devoted to lectures and discussions of problems that are vital to the poultry industry. The real business meeting of the federation began at 2 p. m., Wednesday the 18th, at which time permanent officers were elected and a resolutions committee appointed. This committee, consisting of James E. Rice, W. R. Graham, Grant M. Curtis, U. R. Fishel and W. T. Seibels, reported the following resolutions:

"Whereas, The National War Emergency Poultry Federation, made up of a number of national and state associations and other

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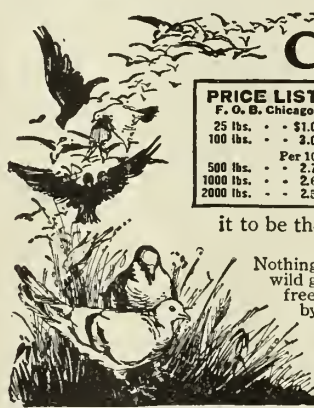
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allied organizations, being in annual meeting assembled, and

"Whereas, This federation has been formed for certain specific purposes—first and foremost to help win the war, to which we pledge our full support—and

"Whereas, Permanent organization being now completed and a general statement of policy having been announced,

"We Hereby Resolve, That we affirm and endorse the twenty general statements of aims and objects of this federation as are hereto attached, and that in furtherance of the same we particularize and specially recommend as follows:

"(a) That if, in the judgment of our executive committee which is duly authorized under our by-laws, it seemed wise to open an office in the city of Washington, D. C., and station a representative there, that this be done forthwith.

"(b) That in order to give aid and encouragement to all branches of our industry in all sections of the country under existing war conditions we recommend—

"1. That a nation-wide publicity or educational campaign be undertaken looking to an increased consumption of poultry and eggs, same to be conducted under the auspices of this federation working in close co-operation with federal and state authorities and departments, and with other associations, organizations, educational institutions, the press, other agencies and individuals which in the judgment of our officials and representatives may seem wise and proper.

"2. That at the earliest practicable date plans be formulated and executed for a comprehensive survey of our national and state poultry resources and liabilities, to include a cumulative study of cost of production and distribution, the same to be worked out in co-operation with federal and state governments, educational institutions and other organizations, agencies and individuals, thus to determine and promote the best methods of production, conservation and distribution of our products for the benefit of our members and the general public.

"3. That we heartily endorse the principle of co-operation in all branches of our industry, and hereby pledge ourselves to stimulate co-operative methods and to help co-ordinate and to support all worthy co-operative movements among the members of this federation.

"4. That it is a first duty of every person in our industry to strive for higher efficiency in the conduct of his business, both to stimulate a larger production and assure a freer general consumption of our products, and also to discover and eliminate all possible waste in production and distribution.

"5. That it is our conviction if any branch of our industry suffers all branches are adversely affected, and that if we are to prosper as a whole we must individually and severally pledge our united support to such a program as we conceive to be set forth herein for the common good of all.

"Resolved further, That we thank the representatives of our national and state governments who have attended this meeting and given us valuable counsel in helping to improve our industry.

"Resolved further, That our secretary be requested to transmit a copy of these resolutions to Hon. David S. Houston, of the Department of Agriculture at Washington, together with a written statement to assure him of our full co-operation with his department looking to the welfare of our industry and service to our common country.

"Resolved further, That a copy of these resolutions together with a written statement be likewise sent to Hon. Herbert C. Hoover, U. S. Food Administrator, and assure him of our full co-operation with his department looking to the welfare of our industry and service to our common country.

"Respectfully submitted,
James E. Rice,
W. R. Graham,
Grant M. Curtis,
U. R. Fishel,
W. T. Seibels.

"Chicago, Ill., July 18, 1918."

We do not feel that we are at this time in position to make any comment, except to state that we are convinced that the men behind this organization are making a sincere and earnest effort to bring together into one federation all the different branches of the poultry industry and make it what it should be, one of the largest and most influential industries in the country.

A. P. A. MEETING.

What we consider to be the most important meeting of the American Poultry Association ever held will be held in Chicago the 12th to 15th of this month. Every member of this grand old association should make an extra effort to attend this meeting.

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Home and the Table
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For right is right, since God is God,
 And right the day must win;
 To doubt would be disloyalty,
 To falter would be sin.
 —F. W. Faber.

* * *

A VERY great aid which mothers can render in helping to win the war is that of keeping the family in health. We cannot afford now to have sick or ailing members in the household.

The most frequent causes of illness in childhood are improper food and lack of sleep, fresh air and sunshine. Everywhere teachers complain of the many children who are unable to keep up with their classes on account of a lack of sufficient sleep and this is a condition for which parents are wholly to blame. Every growing child requires at least eight hours sleep in a well ventilated room or sleeping porch, while young children need more than this, according to their age. Nothing can take the place of good, sound, undisturbed slumber in childhood. Fresh air and sunshine are free to those who will seek them and the mother should see to it that her children have a few hours play and recreation in the sun and air.

When we come to the question of proper food for growing children, we should consider that no matter how great the cost for good wholesome food, it is cheaper in the end than would be the case were the children fed insufficient food or food of poor quality at less cost.

The future of any people depends upon the health and proper development of its children and in no way can we be of greater service to our country at this time than by looking to the welfare of the coming men and women.

The Children's Bureau of the U. S. Department of Labor, at Washington, has lately issued a number of bulletins on "How Mothers Can Help in Children's Year," which should prove of great value to the mothers of growing children. The following paragraphs are taken from one of these bulletins which treats on the question of the child's food.

* * *

The family must be fed, whatever foods cost, and the wise mother will study how to get the greatest return on her investment by the careful selection of foods. The cheapest foods are by no means necessarily the most economical. Half-decayed fruits and vegetables are sold very cheap from the wagons or markets, but may be very expensive to the family if illness results, and it is only too true that cheap milk may cost the life of a baby. It is plain that unless food is in good condition it is not cheap at any price. But even when the quality of food is above reproach, it must be selected wisely and adapted to the needs of the family. To do this it is a good plan to divide the money that may be spent for food in some such way as the following:

(a) "Spend from one-quarter to one-third of the total food money for bread, cereals, macaroni and rice." Bread and other cereal foods form the basis of the American family diet and should be freely used for children.

(b) "Buy at least from one-third to one-half a quart of milk a day for each member of the family." This amount of milk for the family will ordinarily permit each child to have one and one-half pints a day.

(c) "Spend as much for fruit and vegetables together as for milk."

Children should begin to have a little vegetable food in the first year, and after the second year well-cooked vegetables should form a usual part of their diet.

It has been found that many families spend an entirely undue amount of their food allowance for meat, which is the most expensive article of food on the market. Especially in summer the proportion of meat in the diet of young children may be reduced by using milk, and milk products, eggs and vegetables in its place. Fish and chicken are excellent food for children.

In order to keep track of these expenditures it is a good plan for the mother to keep an itemized account of her food costs for a while. In the country and villages where the family raises a great deal of its own food the problem of buying will not be so serious, but it is always necessary to see that the proper balance of the family meals is observed.

Having purchased the foodstuffs, still further economy can be effected by proper preparation and cooking. A fireless cooker will help greatly in the task of cooking in summer. Most cereals and many vegetables may be reheated so that at least enough for two days may safely be cooked at one time. Milk may be used in many kinds of good summer foods, such as vegetable soup and custards, or may be the basis of the children's suppers, either with bread or cereals.

Food should be kept as cold as possible and carefully screened against flies, mice and other marauders. When there is danger that foods will not keep until the meal for which they are needed, they should be cooked, scalded or sterilized, and then cooked as quickly as possible, even if they must again be warmed before being eaten.

* * *

CHERRY PUDDING.

Sift one cup barley flour and one cup wheat flour with two teaspoons baking powder, one-half teaspoon salt, one scant cup sugar. Add one egg and one cup of thin cream or milk. If the milk is used, add also one teaspoon chicken fat. Have two cups of pitted cherries in readiness and add just before pouring the batter into a mold to steam. This pudding will require about two and one-half hours to steam. Serve with juice from cherries, sweetened slightly, and boiled for five or ten minutes.

* * *

CHERRY VINEGAR.

By R. T. M.

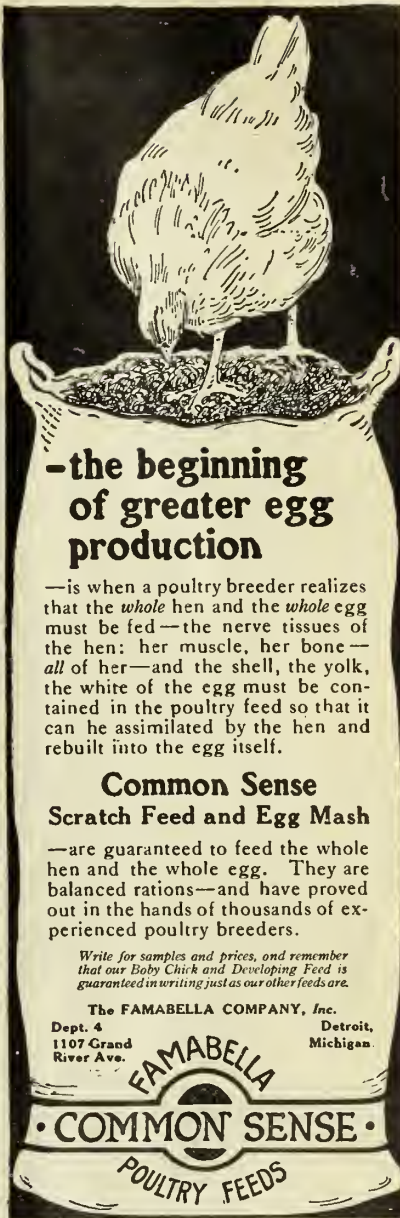
Stone and stem two pounds of cherries, add an equal quantity of sugar and of water, and a small bit of white ginger root, cut in small bits. Cook slowly until the cherries become soft and then strain, mashing the cherries thoroly.

* * *

FRUIT SYRUP FOR SUMMER DRINKS.

By R. T. M.

Practically all the fruits make delicious syrups for summer drinks. When canning fruit, there is often a small quantity of syrup left over from filling a jar which should be bottled for future use. For the smaller fruits such as raspberries, strawberries, blackberries and currants, add two pounds of sugar to two pounds of washed and prepared fruit. Mash the fruit thoroly and rub thru a fine sieve. Bring to the boiling point and allow to boil for five minutes. Put into air-tight jars or bottles and seal immediately. In using larger fruits such as peaches, pears and pineapples, the fruit should be peeled and mashed and the sugar added. Proceed as with smaller fruits.



-the beginning of greater egg production

—is when a poultry breeder realizes that the *whole* hen and the *whole* egg must be fed—the nerve tissues of the hen: her muscle, her bone—all of her—and the shell, the yolk, the white of the egg must be contained in the poultry feed so that it can be assimilated by the hen and rebuilt into the egg itself.

Common Sense Scratch Feed and Egg Mash

—are guaranteed to feed the whole hen and the whole egg. They are balanced rations—and have proved out in the hands of thousands of experienced poultry breeders.

Write for samples and prices, and remember that our Baby Chick and Developing Feed is guaranteed in writing just as our other feeds are.

The **FAMABELLA COMPANY, Inc.** Detroit, Michigan
 Dept. 4 1107 Grand River Ave.

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COMMON SENSE
 POULTRY FEEDS

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35 Varieties 35
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S. A. HUMMEL
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THE NORWICH AUTOMATIC FEEDER CO.
 Manufacturers
 Automatic Poultry Appliances
 Box 21, NEW LONDON, CONN.

CHICKEN SALAD.
By R. T. M.

There is nothing nicer for luncheon or dinner on a hot day than a good chicken salad. The chicken should be parboiled and seasoned with salt and pepper before removing the meat from the bones. Cut the meat in dice when cold and arrange an attractive bed of lettuce. Chop two hard boiled eggs which have been well chilled and add a tablespoonful of chopped walnut meats and a few chopped stuffed olives. A little chopped, crisp celery greatly improves the salad. Arrange the salad on the lettuce leaves, sprinkle with salt and pepper and add a mayonnaise dressing. Garnish with grated hard-boiled yolk of egg and small pickled beets.

* * *

CANNED CHICKEN.

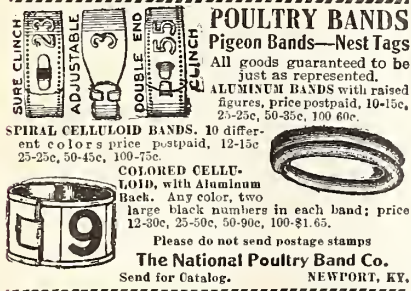
It is time now to can early hatched surplus cockerels. After the chicken is dressed and drawn, wash thoroly and cool. Cut up as usual and boil until tender, salting same to taste. Remove the meat from the bones and fill sterilized jars with the cooked meat and stock in which it was boiled. Have the jars full to the very top. Put the rubber and glass top in position and partly close, but do not clamp down until after the jars have been placed in hot water bath and processed for three hours from the time the water starts boiling. Seal and remove from the bath. When cool, store in a dark place.

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All goods guaranteed to be just as represented.
ALUMINUM BANDS with raised figures, price postpaid, 10-15c, 25-29c, 50-35c, 100 60c.

SPRAL CELLULOID BANDS, 10 different colors price postpaid, 12-15c 25-29c, 50-45c, 100-75c.

COLORED CELLULOID, with Aluminum Back. Any color, two large black numbers in each band; price 12-30c, 25-50c, 50-90c, 100-\$1.65.

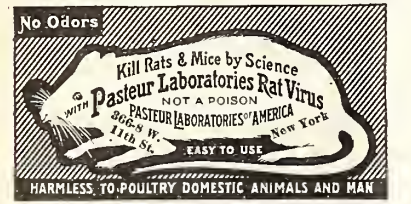
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PASTEUR LABORATORIES OF AMERICA
206 W. 17th St. New York
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Would you invest 25 cents for several dollars worth of knowledge on Squabs? We have a limited supply of Squab books on hand which we are practically giving away. Send for your copy of "Money in Squabs," price

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of all kinds and descriptions. It gives complete plans. How to make feed troughs, nest boxes, water troughs, roosts, dropping boards, brood coops, brooder houses, fattening coops, colony houses, winter and summer houses, etc. Price 50c.
AMERICAN POULTRY JOURNAL PUB. CO.
523 Plymouth Court Chicago, Illinois

OH! RATS!

We Can't Afford to Feed and Harbor Aliens Working to the Kaiser's Interests.

ONE evening about six weeks ago I called on a fellow-bachelor friend in West Toledo, and in the midst of some important poultry discussion we were interrupted by a large-sized racker in the partition or wall, which my friend explained was rats, and that they had been disturbing him at night for some time. This changed our subject to rats and the methods of getting rid of them. I mentioned to Joe that our mutual friend Mr. B— over the East Bridge had told me a couple of years ago about his house being overrun with mice and rats and that finally he "gassed" them by attaching a small hose to a gas jet, with the result that he cleared the premises, and continued to repeat the dose whenever one appeared, which was seldom. "Harry," shouted Joe, "that is another display of your excellent memory and I intend to play to lose on that idea. If success crowns my worthy efforts, in one week's time I shall be sitting on Mr. Hoover's right hand—if not on his hand, it will be a nicely upholstered piece of mahogany next to him. You just sit where you are, keep tab on the rat and watch me." I watched. He hurried down the hall returning shortly with a long rubber tube. There was a gas jet in the room close to the wall where the rats were holding forth. He next secured a hammer and a spike, drove the spike thru the wall near the base board, making a hole large enough to partly insert the tube. Removing the tip, the tube was attached to the gas fixture and all was set for the experiment. While waiting for Mr. and Mrs. Rat's return we discussed the chicken-rat business at some length, and it was casually mentioned that a hose attached to an auto exhaust pipe and the engine started should dislodge all pro-Germans and even the Huns in the trenches. Joe was confident that if this scheme worked O. K. we would have a chance to pay interest to the Huns for their limburger perfume attacks on the Allies at the front. When the rats arrived the gas was turned on, and from all the racket it seemed they could not get away fast enough.

Having arranged to do some work for a Mr. Miller near Erie, Mich., I went up there early next morning, so did not see Joe for a week. In the meantime I found both Mr. and Mrs. Miller much concerned over the loss of so many young chicks by the rat route. Mr. Miller was careless or forgetful about purchasing traps, but had just secured a lot of one-inch mesh wire netting, intending to fence in the biddies and chicks. Upon watching and investigating, we concluded that the rats, old and young, were harbored under a 12x14 wood shed, away from the barn, house and chicken house, but not more than 75 feet from either building. There was also a pile of logs and old fence posts close to this shed, where the

runs and nests seemed to be. I told Mr. Miller of the council of war held in Toledo by Joe and myself, and asked him to wait till I ran down to town, call a special session with Joe, obtain reports, and endeavor to plan a jitney surprise assault.

Joe's report was encouraging—not a rat for a week—and when I described the weather conditions out at Mr. Miller's place, he very solemnly declared that "the Kaiser was licked, good and plenty," and he himself and his Ford, and his two fox-terriers, and his two friends, Duncan and Chapman, who each owned a terrier, "would all be in at the finish." In fifteen minutes all preliminary arrangements were made with the reserve forces for a heavy assault on the enemy at three the next afternoon. I journeyed ahead to set the scenery, props, etc., and had Mrs. Miller phone her neighbors a complimentary for the matinee. Mr. Miller and I jacked up the shed from the ground and got the wire netting ready, after which we drove all the rats we could from the other buildings to their own apartments. At 3:30 o'clock the boys and dogs arrived, accompanied by 25 feet of hose. We backed Lizzie in near the shed, then circled the shed, wood pile and Lizzie with the wire netting, making a circle of nearly 200 feet. The audience, not large, was expectant but somewhat skeptical. I don't believe any of them had ever seen a terrier after rats, and these four were all experienced ratters. The opening scene was sudden and surprising. There was no "speechifying" or impressive ceremonies or frills of any description. What happened was that Joe's Bijo spied or smelled a rat and out of Lizzie streamed a streak of terriers. We had only just got the netting stretched when everything and everybody was in action. Four of us grabbed clubs, while Joe got the 25-foot gun ready for action. First round lasted ten minutes, and after a good drink of home-brewed buttermilk the engine was started and the end of the hose shoved in the burros. Joe's "Limburger perfume" supplied lots of action for the next twenty minutes. It really was the busiest twenty minutes I ever put in. When the rats were driven out in numbers, the neighboring women and children gradually fell back from the fence, but their retreat was orderly and their faces were to the foe, bound not to miss any of the scene. It was hot work. In the round-up we counted 83, old and young, and three had escaped when one of the dogs, in making a flying catch, tumbled into the netting, raising it from the ground. Joe thinks those three are still on a marathon. How many very young rats were suffocated in the burrows we can't begin to guess. Several old rats, we are sure, had young in the nests under the ground.

Mrs. Miller served us all a supper such as only country people can serve. Joe insists on calling it a banquet, an opera supper, a feed for the gods, and would like to learn if all farmers' wives can cook pies and other things like Mrs. Miller. A standing invitation was extended us to come out any time, and at strawberry and peach time in particular.

Net expense: Three gallons gasoline and

SPROUTED OATS—WINTER EGGS

The Vapor-Bath Sprouts produced by the Close-To-Nature machines possess an efficiency for prolific egg-production not found in sprouts grown the old way or in many so-called grain sprouters. A sweet, succulent, tender, edible, palatable sprout is grown in the Close-To-Nature Vapor-Bath machines.



Sprouted Oats From One Bushel Of Grain

CLOSE-TO-NATURE GRAIN SPROUTERS

The **DOUBLE-QUICK**, the **ALL-METAL SECTIONAL**, the **LAMPLESS**, three kinds and all sizes from a few hens to 1,000,—made by the pioneers and largest manufacturers of Grain Sprouters. The Grain Sprouter or Perpetual Poultry Silo runs up the egg yield and cuts down the feed bill. Turns high-priced grain into low-priced feed. The Close-To-Nature Vapor-Bath machines sprout in 20 to 30 hours and force growths of 1 to 2 inches daily, thus producing the best of easily-digested, highly-efficient, egg-producing feed. Circular free.

CLOSE-TO-NATURE COMPANY 38 Front Street COLFAX, IOWA

Keeler's White Wyandottes—5 firsts Chicago

Egg records 200 to 273. Eggs and stock now half price. 2000 chicks growing, ready Aug. 15. Summer sales list and 64 page art catalog free.
CHAS. V. KEELER, R. F. D. 11, WINAMAC, IND.

two hours lost time from work; which is offset by making some jolly good friends and all the fun we had, which none of us would have missed had we lost a week's time from work. Mr. Miller expressed himself thusly: "Ain't had so much fun since hog killin' time," and Joe solemnly echoes, "Amen! them's our sentiments."

Chapman and Joe are both enthusiastic Ford owners and both insisted on a charcoal display on the machine on our home trip which read:

"The Ford in wartime."
 "We 'gassed' the enemy with a Ford."
 "We can't a-Ford to feed and harbor aliens, working to the Kaiser's interest."
 "Huns lose 83."
 "No prisoners taken."
 "Maneuver successfully carried out by five American citizens assisted by four fox terriers."

Benton Harbor, Mich. H. C.

Order Your Fertilizer Now.

The U. S. Department of Agriculture is urging farmers to make known their fertilizer needs for the fall planting at the earliest possible date. It points out that this will enable dealers to combine their orders into full capacity carload lots.

This step is made necessary by the difficulties in handling freight at this time. The railway systems of the country are taxed to the utmost to move the tremendous volume of supplies for our troops. Many farmers who ordered their spring fertilizers late did not receive them until after planting time. Some failed to get them at all. Prompt action will tend to avoid disappointment this fall and enable every farmer to start his crop right.

The intelligent use of fertilizers is one way by which the farmer can increase crop production and at the same time make the labor expended produce more than formerly. There was never a time when the use of fertilizers was so profitable as now with crop prices high and labor scarce.

The railroads of this country are now being operated by the United States Government. Co-operate with your Government by ordering your fertilizer early. It will relieve the car shortage.

IMPORTANT.

The annual meeting of the American Poultry Association will be held in Chicago the 12th to 15th of this month. This we consider the most important meeting ever held by this association. It is the patriotic duty of every member to attend. The very life of the Standardbred poultry industry is at stake. The American Poultry Association members can save it. This is the opportunity for the members to show their loyalty to the American Poultry Association and the Standardbred poultry industry. Come, and let us council together.

ILLUSTRATED BREEDERS CARDS

Rates for Illustrated Breeders' Cards: With small sized illustration (to be furnished by us), 40 words 1 month \$3.00, each additional word 7c; 40 words 3 months \$8.00, each additional word 20c; 40 words 6 months \$15.00, each additional word 37c; 40 words 12 months \$25.00; each additional word 62½c. Numbers and initials count as words. Terms: Cash with order. Minimum charge, 40 words. Copy for advertisement, plainly written, should reach this office by the 15th of month preceding date of issue. In answering these ads, please mention American Poultry Journal.



BABY CHICKS FOR JULY—Barred Plymouth Rocks, White Rocks, Buff Orpingtons, White Orpingtons, White Wyandottes, Single Comb Rhode Island Reds, Single Comb White Leghorns. Write for free circulars. Name breed wanted. Martin Michelson, 232 5th St., Aurora, Ill.; Chi. Phone 884J. 7



FIFTY VARIETIES OF FINE thoroughbred poultry. Cochins, Brahmas, Langshans, Rocks, Wyandottes, Houdans, Orpingtons, R. I. Reds, Leghorns, Polish, Hamburgs, Spanish, Ducks, Turkeys, Geese. Incubators and Brooders. Large illustrated catalog mailed for 4c. C. M. Atwood, Box A7, Dundee, Minn. 9-17-2yr



BARRED PLYMOUTH ROCKS—Cockerels (pullet-bred) of my very best 1917 hatchings, only \$10 each. My birds win everywhere. See last month's adv. You need one of these fine birds. Order today. John Peterson, Box 292, Randall, Ia. 3-18-1yr



WHITE ORPINGTONS—Superior quality. Bred for fourteen years for Purity of color, prolific utility and Exhibition. Winners strongest competition. 400 ribbons, cups, American Poultry Association and club medals. Grand matings for eggs. Catalog free. F. Bullington, Box A, Richmond, Va. 5-18-1yr



DEAD GAME FIGHTING FOWLS—Red, White and Blue. They are fully-fledged "honest-to-goodness" 100 percent American. Cocks defend themselves with dying breath and hens have pep and vitality to shell out winter eggs. Illustrated folder free. Alfred E. Graham, Cameron, N. C. 11-17-1yr



MARCH HATCHED S. C. W. Leghorn cockerels, pure bred Ferris strain, from trapnested 230 to 260-egg record hens, \$3.00 each. Well grown range raised birds. Order soon. Jos. Kupferschmid, Hoopston, Ill., R. R. 4, Box 35. 6-8



DARK CORNISH—Bargains in breeders to quick buyers. Cocks and hens of the highest breeding. No culls. Youngsters from superb matings after first of September. Satisfaction in every sale or money back. Write. T. D. Moore, R. 7, Hopkinsville, Ky. 12-17-1yr



PURE BRED WHITE Wyandottes, Rose and Single Comb Reds, Barred Rocks, breeding stock for sale. Eggs for hatching at very reasonable prices, quality considered. Special prices on eggs in large lots for filling incubators. N. E. Robart, R. 2, Caldonia, Mich. 6-18-1yr

SINGLE COMB WHITE LEGHORNS

SPECIAL ANNUAL HALF-PRICE SALE COMMENCING JUNE 1st

Yearling Cocks and Hens, Mated Trios, Pens and Yards
Also a Few of Our Breeding Yards—just as Mated
 A GENERAL CLEAN-UP EVERY YEAR—EVERYTHING at HALF-PRICE
 Write for free Illustrated Catalog and Mating List.

MRS. E. B. MARTIN RANCHO DEL MARTINO P. O. Box N, Downey, Cal.

WHITE HOUDANS

Special Sale of Breeding Hens at \$5.00 and \$10.00 each. Show Hens, \$15.00 each.

Order from this ad. Satisfaction guaranteed. STARKS FARM - STARKS, WIS.

CHIX FOR BROILERS -- ROASTERS

From our fast developing, quick maturing strains; make meat fast. Leghorns at 10c, Reds and Barred Rocks at 12c, White Wyandottes and White Rocks at 13c each. Pullets will lay in November. Orders filled promptly.

W. R. CURTISS CO. RANSOMVILLE, N. Y.

Orpingtons

BUFF WHITE BLACK

Profit by your own winnings. Byers' Orpingtons won for my customers 56 firsts at State Fairs last fall and 262 prizes past winter (including both Chicago shows). There's a reason. Drive a wedge through your competitors' line with a purchase from me. Big March cockerels and pullets, bred from \$300 Exhibition Matings, ready to win at State Fairs; engage them now. Regular \$50, \$100 and \$200 Exhibition Pens (4 yearling females and male) half price this month. Regular \$25, \$35 and \$50 yearling males now half price. These are genuine reductions and you really save as much as you spend, based on prices that will rule next fall. You can't wait and get these values. I deliver the quality to beginners and experienced breeders alike. Satisfaction guaranteed always. Liberty Bonds or War Savings Stamps accepted. C. S. BYERS, Hazelrigg, Indiana. (Active Orpington Specialist 18 Years).

STARKS' WHITE ROCKS

Winners at Madison Square Garden. SPECIAL SALE OF BREEDERS now on.

STARKS FARM Box 100 STARKS, WIS.

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UNDER this heading ads will be inserted for seven cents per word each month for less than three months, or **six cents per word each insertion for three months or longer.** Changes in copy allowed every three months. Numbers and initials count as words. All ads will be inserted under **classified headings.** No ads accepted at less than an average of 60 cents per insertion. Terms, cash with each ad. Count the words carefully to avoid delay in publishing. Write your copy plainly, as upon this the correctness of your ad largely depends. When placing your ads remember that advertisers using Classified Ads get better returns from AMERICAN POULTRY JOURNAL than from any other poultry journal—none excepted. On writing any of these advertisers, mention AMERICAN POULTRY JOURNAL. **All copy for Classified Ads must reach us by the 17th of month preceding the date of issue.**

ANCONAS.

SHEPPARD'S FAMOUS ANCONAS—The World's Best. See display ad page 724. Cecil Sheppard, Berea, Ohio. 11-16-19

FRITCHARD'S GENETIC ANCONAS—Bred with care. Frank P. Fritchard, Naturalist-Breeder, Fairmount, Ill., Route No. A2. 11-17-19

S. C. ANCONA cockerels from extra good laying strain; 8-12 weeks old. Edw. Ripplloh, Minster, O. 8-10

FOUR-MONTH ROSE Comb cockerels, \$1.75. C. W. Zelle, Appleton, Wis. 8-9

CARDELL'S PEEPERLESS ANCONAS—Cocks, \$5; 213 to 250-egg hens, \$2 and \$2.50; nice cockerels about October, \$5 and \$7. F. L. Cardell, Northfield, Vt. 8

LAYORBUST STRAIN ANCONA cockerels (three months). They will improve your flock. Not ordinary market culls. \$3. "BK" Poultry Yards, 660 High St., Youngstown, Ohio. 8

FOR SALE—A FEW select cockerels and pullets from my prize winning and heavy laying stock of S. C. Anconas. They look like winners. Correspondence solicited. T. H. Holmes, River Forest, Ill. 7-8

H. CECIL SHEPPARD STRAIN Ancona cockerels, 4 or 5 months old, \$1.50 and \$2. Peterson, 1117 Harvard St., Evanston, Ill. 8

BANTAMS.

BANTAM SPECIALIST—Buff, Black, Partridge Cochins, Light and Dark Brahmans. I ship on approval. Circular free. Geo. C. Salmon, Port Dickinson, N. Y., Route 4. 1-17-19

WANTED—ALL KINDS of Bantams and a few pairs of white doves. State age, price, etc. Adams Bird Store, 121 Mulberry St., Newark, N. J. 6-8

BLACK-TAILED JAPANESE Bantams—Exhibition and breeding stock. G. Z. Darby, Norwalk, Ohio. 8

BUFF COCHIN BANTAMS—Excellent stock, \$1 a piece. Order from this ad. D. Dunlea, Stockton, Ill. 8

BRAHMAS.

LIGHT BRAHMAS—Stock and eggs reasonable. Contents of breeding pens at bargain prices after June 15th. All stock trap-nested and pedigreed. Putnam & Sons, Harvard, Illinois. 6-8

"MAMMOTH" LIGHT BRAHMAS—Winners everywhere, including Chicago. Bargains in breeders. Eggs at half price now. George Layman, Greenville, Ill. 6-8

LIGHT BRAHMAS—At Cleveland we won 1st and 2d cock, 1st hen, 1st cockerel, 1st pullet. Young and old stock for sale ranging in price from \$5 to \$10 each from my breeding pens. Geo. C. Wright & Son, 2335 Riverside Road, Lakewood, O. 5-18-19

BUTTERCUPS.

GOLD COIN BUTTERCUPS—O. B. Disenroth, Lawrence, Mich. 1-18-19

DORKINGS

EGGS AT HALF PRICE remainder of season; \$2 per 13, \$3.50 per 26. From Westfall's champion Silver Gray Dorkings. No reserve. More first prizes, silver cups and specials at New York, Boston and Buffalo than all competitors combined. These are the chicks that grow two pounds at two months. A few choice birds for sale. No baby chicks. Watson Westfall, Sayre, Pa. 2-17-19

GAMES

SILVER DUCKWING—Young stock, \$5 and up. If you are not looking for well bred stock, don't write. Geo. B. Williams, Lisbon, Ohio. 8-10

HAMBURGS

PRIZE-WINNING SILVER Spangled Hamburgs. Stock for sale. Write for prices. Chriss King, Boscobel, Wis. 7-9

SILVER SPANGLED HAMBURGS. Black Diamond strain. Highest honors at Madison Square and leading shows of America. Eggs, \$3.00 and \$5.00 per 15. If you want the best and birds that can win in any competition, you should order stock or eggs from Will L. Clark, Sullivan, Ohio. 3-16-19

LAKENVELDERS

LAKENVELDERS—EVERLASTING layers. Supremely beautiful. State wants. Hermitage Farm, Millersburg, Ohio. 8-9

LAKENVELDERS—HANDSOME young fowls for sale. C. E. Patterson, Cardington, Ohio. 8-10

LANGSHANS.

WHITE LANGSHANS of quality—A bargain in breeding stock and eggs. Alonzo Tyner, Greenfield, Ind. 6-8

TRAPNESTED BLACK LANGSHANS—200 to 273-egg strain. Setting, \$2 up. Catalog. Lorenz Co., Perryville, Mo. 6-8

S. C. WHITE LEGHORNS

TOM BARRON WHITE Leghorn cockerels, 8 and 12 weeks old, \$1 and \$1.50 respectively. Robt. M. Stroud, Hastings, Ia. 7-9

SINGLE COMB WHITE Leghorn pullets, hens and cockerels. Catalog, stamp. Failing Poultry Farm, La Fargeville, N. Y. 7-9

FOR SALE—1,800 S. C. W. Leghorn hens, select stock. Must make room for young stock. Universal Poultry Farm, Monticello, Ill. 7-9

SINGLE COMB WHITE LEGHORNS—Several hundred yearling hens and April hatched pullets, reasonable. Satisfaction guaranteed. Miller Poultry Farm, Box T, Lancaster, Missouri. 7-9

EGGS, CHIX, STOCK reduced, from high-bred White Leghorns. Instructive circular. Dr. A. Prudhomme, Thurmont, Md. 6-8

12 WEEKS OLD BARRON Strain S. C. White Leghorns. Cockerels and pullets, \$1 each. W. L. Richter, Kenwood Ave., Elkhart, Ind. 8

SPECIAL THIRTY-DAY SALE—Barron White Leghorns, "The Big Kind." Pairs, \$2.50 up; trios, \$3.50 up; pens, \$5.50 up. Cockerels, hens, pullets. L. W. Ranker, Box A, Tiffin, Ohio. 8-9

FOR SALE—GET 'EM QUICK—500 pullets and cockerels, 8 to 10 weeks old, for the entire flock, \$1 each. Selected birds, \$1.25 each. S. C. White Leghorns, Tom Barron type, 100 hens from my breeding stock, \$2 each. Write us. M. E. Wisman, Evansport, Ohio. 8

MARCH HATCHED WHITE LEGHORN cockerels, \$2; two, \$3; dozen, \$15. You can't beat it. Tom many. \$5 next spring. Ohio Valley Hatchery, New Salisbury, Ind. 8

BARGAIN IN S. C. WHITE LEGHORNS—Young's and Ferris' strain. Breeding hens and March and April hatched cockerels and pullets at \$1.25 each, while they last. Order direct from this ad. Gottfried Koepsel, Mayville, Wis. 8

BUSINESS BRED S. C. White Leghorns. Chicks, eggs and stock. Catalog free. Slaty Ridge Poultry Farm, Box 12, Palmyra, Pa. 8-10

S. C. WHITE LEGHORNS—Large sized, 295-egg record. Eggs, \$2 per 15, \$7 per 100, \$12 per 200. Chicks, 20c each. Cockerels, \$3, \$5 and \$10 each. Prepaid. Mrs. E. R. Dees, Waltonville, Ill. 8

FERRIS 200-264-egg laying strain. Cockerels, 12 weeks old, \$1.50 each. F. B. Searcy, Kirksville, Mo. 8

PURE BARRON LEGHORN cockerels with pedigrees from 240 to 284. Large early hatched birds, full of life and vitality. We have several hundred to choose from and will guarantee to please you. Riverside Poultry Farm, Cambridge Springs, Pa. 8-10

YEARLING HENS FOR SALE—Single Comb White Leghorns, choice stock of the best laying strains. Circular. Harry F. Palmer, Middleport, N. Y. 8

ON ACCOUNT OF LABOR shortage I must sell flock of 700 S. C. White Leghorn yearling hens. Flock has been closely culled, and has made good record. Price, \$1.50 each. Henry Carter, St. Helen, Mich. 8-10

ENGLISH SINGLE COMB White Leghorns, 300-egg strain, bred from largest Leghorns in existence, with winter laying habit bred to the bone; healthy and full vitality. Order your pedigree cockerels now. Fred Havig, Route 2A, Osage, Iowa. 8

S. C. BROWN LEGHORNS

SINGLE COMB BROWN Leghorn pullets, hens and cockerels. Catalog, stamp. Failing Poultry Farm, La Fargeville, N. Y. 7-9

S. C. BUFF LEGHORNS

BUSINESS BEAUTY BUFF Leghorns from large eggs from mature, typical, robust, prolific hens. Both combs. Out-bred, pedigreed. Catalog. Joseph Benedict, Chevy Chase, Md. 1-18-19

233-EGG BUFF LEGHORNS—Early hatched, \$1.25. Dr. Hume, Anadarko, Okla. 8

BUSINESS BEAUTY—See Single Comb class. 1-18-19

ROSE COMB BUFF LEGHORNS—Stock and eggs. Catalog. Howard J. Fisk, Falconer, N. Y. 3-18-19

BLACK MINORCAS

ROSE COMB BLACK Minorcas. Exhibition and utility stock, and eggs for hatching at all times. Send for our large catalog. G. A. Clark, Seymour, Ind. 6-17-19

WINNERS AT PANAMA and official 200-egg strain, National egg-laying contest, Missouri, up to 272. H. A. Kultz, Burlington, Wis. 2-18-19

ROSE COMB BLACK Minorcas—Trapped; prize winners. Stock for sale. Geo. Konrad, Waukesha, Wis., R. 1. 6-8

SINGLE COMB BLACK MINORCAS—Cockerels, 4 months, \$1.50 each. Table Egg Farm, Lookout, Pa. 8-10

BUFF MINORCAS

BUFF MINORCAS—See display ad page 727. Walhalla Poultry Farm. 3-18-19

SINGLE COMB BUFF Minorcas—Good winter layers. 15 eggs for \$2. Fred P. Dietz, Mt. Vernon, Ind. 6-8

RHODE ISLAND WHITES

THE GREAT RHODE ISLAND White farm. Eggs reduced, \$1 per 15. Rose and Single Comb. Stock \$6 per trio; \$10 per pen. Catalog free. Henry Eichelmann, Waterloo, Ill. 6-8

RHODE ISLAND REDS.

PERRY'S SINGLE COMB Red on approval. Freed Perry, Ottawa, Ill. 8-10

PARTRIDGE PLYMOUTH ROCKS

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 740. 5-15-19

OWN-LAND FARM'S Partridge Rocks—Boston winners. Circular. South Hammond, New York. 8-10

WHITE PLYMOUTH ROCKS

NOBILITY WHITE ROCKS—Select yearling breeding stock; steady layers; champions at Ohio's three largest shows. Pierce & Cushion, Wellington, Ohio. 8

F. L. H. WHITE ROCKS are always good, but better this year than ever. Either utility or show birds, at reasonable prices. F. L. Hooper, Kendallville, Ind. 8

COLUMBIAN WYANDOTTES

COLUMBIAN WYANDOTTES—Madison Square Garden and Boston winners. Prices reasonable. Gilbert Poultry Farm, Whittier Road, Haverhill, Mass. 8

WHITE WYANDOTTES

WHITE WYANDOTTES—The one ideal, general purpose breed. Their popularity will never wane. Purchase price and all express charges refunded on unsatisfactory cockerels, pullets, cocks or hens purchased of me. J. F. Garrison, Mt. Vernon, Ill. 8

LAYMORE STRAIN trap-nested yearling hens, \$2.25; 4-month pullets, \$2.00; cockerels, \$1.50 up. C. Zelle, Appleton, Wis. 8-9

DR. MANCHESTER, Pekin, Illinois, imported his Royal White Wyandotte foundation stock direct. Only fine breeders. Eat less grain than Leghorns and lay as many eggs, commencing when seven months old. A meat meal for eight people. 8-10

OWN-LAND FARM'S White Wyandottes (Regal-Dorcas). Circular. South Hammond, New York. 8-10

FOR SALE—REGAL WHITE Wyandottes—Am in draft; must sell at once. Three high-class males, 19 extra females, 100 chicks, incubator, supplies, 5 pair mated Carneau pigeons, 2 pairs mated Homers, 5 pairs young birds, Boston Terrier pup. No trades. Priced right for quick sale. Please write at once. M. C. Frederick, Waukon, Iowa. 8

POLISH

THREE TO SIX DOLLARS pair. Six varieties Polish chicks. L. Leavitt, Smithfield, Ill. 8

SPANISH

WHITE FACED BLACK Spanish—Winners at some of the largest shows in the country. J. R. Galloway, Elwood, Indiana. 7-9

SEVERAL BREEDS

SOME FINE BLACK LANGSHAN and Rhode Island Red cockerels. March hatch. Mrs. Ray Marr, Chatsworth, Ill. 8

DUCKS

INDIAN RUNNER DUCKS—Good laying strain, great producers; special bargain. Write for prices. Outlook Farm, Warren, Mass. Mrs. W. H. Hough. 8-10

GEESE

WILD CANADIAN GEESSE—\$12 pair; all varieties. Ducks and geese for the fall fairs. Dawson Bros., Franksville, Wis. 6-8

AFRICAN GEESSE—Pure breed. Cheap if taken soon. Write for prices. Outlook Farm, Warren, Mass. Mrs. W. H. Hough. 8-10

TOULOUSE AND WHITE Chinas. Fuller, Route 36, Peoria, Ill. 8-10

TURKEYS

AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our ad on page 740. 2-1f

AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 740. 2-15-1f

PIGEONS

I OFFER GUARANTEED MATED Homers in any quantity at \$1 per pair. Beautiful White Homers, \$1.50 pair. Squab companies challenged to produce better stock at twice this price. Get my prices on Runts, Carneau, Maltese hens and save dollars. Squab Manual, 25c. Charles A. Gilbert, 2210 Almond St., Philadelphia, Pa. 7

WANTED—5,000 HOMER or common pigeons. Pay at least 25c pair. Live Rabbits wanted. Going Light, Canker Cure 25c. D. Gilbert, 1128 Palmer St., Philadelphia, Pa. 8

WANTED—RUNTS, MONDANES, Kings, Hennies and Crosses. Pearson, 15618 Damon Ave., Cleveland. 8-10

POULTRY SUPPLIES

EIGHT-FOOT EXHIBITION coops. Two and three dollars each. L. Leavitt, Smithfield, Ill. 8

RABBITS AND HARES

RAISE BELGIAN HARES for me—I furnish all grades of stock at from \$2.50 up, and buy all you raise at 30 to 60 cents per pound, live weight. My famous instruction booklet and full particulars, 10c. None free. Frank G. Cross, 6433 Ridge, St. Louis, Mo. 11-17-1f

CHECKERED AND FLEMISH—Write for prices. Ideal Rabbitry, Cape Girardeau, Mo. 7-9

BELGIAN HARES AND Mammoth Flemish Giants. Booklet on Hares, 10c. Canada's Rabbitry, 258 York, Denver, Colo. 7-9

IF YOU COMMENCE with good stock and raise Belgian Hares, you will be able to buy War Stamps and Liberty Bonds. Help your country. Write Adolph Chilner, Forest City, Ark. 8-10

MAGIC CITY RABBITRIES—Pedigreed Rufus Red Belgian Hares. Satisfaction guaranteed. 1219 E. Willard St., Muncie, Ind. 8

DOGS

PEDIGREED COLLIE PUPS. Males, \$10; females, \$5; London Hope at stud, fee \$10. Plummer McCullough, Mercer, Pa. 9-15-1f

REGISTERED SCOTCH COLLIE puppies. Leghorn pullets. Catalog, stamp. Failing Poultry Farm, La Fargeville, N. Y. 7-9

FOR SALE—Two 10-month-old female Alredales, also younger pups, all eligible to registry; good watch or rat dogs. Holland Bros., Mystic, Iowa. 7-9

BEAUTIFUL COLLIE pups, \$5 to \$11. Meadow Farm, Coulterville, Ill. 8

INCUBATORS AND BROODERS

FOR SALE—4,500 capacity Hall incubator; slightly used; good as new. Pabst Stock Farm, Oconomowoc, Wis. 8

FOR SALE—BARGAIN—One Candee Hot Water Incubator, good order, 5,000-egg capacity. Buy in time for fall custom hatching. Also feed mixer, 3-barrel capacity. Tanglewood Ranch, Rockville Centre, N. Y. 8-10

WANTED—BLUE HEN or Newton incubators. Poultry Farm, Lock Box 222, Zeeland, Mich. 8-10

POUND CHICKS

POUND PULLETS AND Cockerels, \$9 dozen; two-pound, \$12 dozen. All varieties. Wright Bros., Garden Prairie, Ill. 8-9

CANARIES

CANARIES—MALES AND FEMALES—Singers guaranteed. P. Bartlett, 3320 Iberville St., New Orleans, La. 8

MISCELLANEOUS

BROTHER, ACCIDENTALLY discovered pleasant root, chewed like gum, quickly overcomes tobacco habit and indigestion. Gladly send necessary particulars. John Stokes, Mohawk, Florida. 8

GUINEA PIGS

GUINEA PIG PENS—For sale cheap. K. O. Barton, Fort Plain, N. Y. 8

SILVER BLACK FOXES

CHOICE UNRELATED domesticated true Northeastern Canada Silver Black breeding foxes, in pairs. Reid Bros., Bothwell, Ontario, Canada. 8-1

OPPORTUNITY

WOULD YOU LIKE to become a partner in a new poultry corporation by investing few hundred dollars? Cashal guaranteed. Write Dr. Heck, 5429 S. Ashland Ave., Chicago. 8

ORNAMENTAL

IN VIEW OF THE FACT that I am now serving my country in the Army and have no time to give to the care or supervision of my birds, I have decided to dispose of my entire stock of ornamental land and water fowl. This most excellent stock of pure-blooded birds, that I have taken years to collect, is offered to you at extremely reasonable prices. My flock includes Pheasants, English Ring-Neck, Silver, Golden, Lady Amherst and Reeves; Ornamental Ducks: Redheads, Canvasbacks, Bluebills, Mandarins, Spoonbills, Pintails, Green-winged Teal, Blue-winged Teal, Cinnamon Teal, Wood Ducks, White English Calls, Mallards, Black Mallards, and Gray English Calls. We also have Canadian Wild Geese, Egyptian Geese, California Valley Quail, Bobtail Quail, and dozens of varieties of pigeons. All orders or inquiries will receive the prompt personal attention of my farm manager, Mr. B. E. Rogers, and all shipments will be made without delay. Complete bargain list with prices will be sent on request. Write today. Send 25 cents for our instruction booklet, "Management and Care of Pheasants and Other Ornamental Fowl." P. J. Sexton, Fair Oak Farms, Dept. A, Waukegan, Ill. 8

PET STOCK

BEAUTIFUL ANGORA CATS and kittens; make the best ratters, \$5 up. Stamp for reply. Bay View Farm, North Haven, Maine. 6-8

PATENT ATTORNEY

MEN OF IDEAS and inventive ability should write for new lists of "Needed Inventions," "Patent Buyers," and "How to Get Your Patent and Your Money." Randolph & Co., Patent Attorneys, Dept. 319, Washington, D. C. 10-17-1f

VALUABLE PATENTS SECURED—Protect your ideas. Send drawings for patentability search. New booklet free. Lester L. Sargent, 524 Tenth St., Washington, D. C. 9-17-1f

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POULTRYMEN WHO DESIRE "better quality," quick delivery, low prices, will appreciate Sullivan Printing Company "Service." Pleased customers every state. Latest engravings. Interesting samples free. Drawer 10, Sullivan, Indiana. 7-9

POULTRYMEN'S PRINTING Prepaid—Noteheads, envelopes, cards, tags, labels, 100 either, 55c; 250, \$1.00; 500, \$1.50; 1,000, \$2.50. Postcards, catalogs, circulars, linen letterheads, everything. Finest cuts furnished. Stamp brings elegant samples. Model Printing Company, Manchester, Iowa. 6-8

HAMMERMILL BOND envelopes, printed and sent postpaid. 250, \$1.15; 500, \$1.70; 1,000, \$2.30. Richardson Press, Bedford, Ind. 8

EXCHANGE

SADDLE AND DRIVING horses for sale; would exchange for purebred American breeds poultry. Louls A. Osborne, Sedalia, Mo. 8

FARMS FOR SALE

COMMERCIAL AND FANCY poultry farm in Southern state, completely equipped. Best markets. Capacity, 2,500 hens. Owner has other business. A Z, care American Poultry Journal. 7-9

GET TO PRODUCING human food. South Dakota offers the best opportunity—see Government crop reports—and the state will back you with cheap money. Get bulletins of Chas. McCaffree, Commissioner of Immigration, Capitol 12, Pierre, S. D. 8

25 ACRES NEAR big city, \$1,500; stock, tools, crops. In heart of fine farming section near world's best markets, between large city and famous coast resort, short distance to either, only 2 1/2 miles to advanced tillage and wood. Fruited to apples, pears, cherries, peaches, grapes, small fruits, cottage house, good condition, barn, etc. Aged owner retiring, includes for quick sale all stock and tools, with 2 acres growing potatoes, 1/4 acre beans, 1/2 acre strawberries, etc.; \$1,500 gets all, \$750 down, easy terms. All details page 21 Strout's Big Catalogue of this and other farm bargains, many with stock, tools, growing crops included; mailed free. E. A. Strout Farm Agency, Dept. 4002, 150 Nassau St., New York City. 8

FINE HARDWOOD LAND—10, 20, 40, 80-acre tracts. \$15 to \$30 per acre. Easy payments. Free insurance. Settlers pay no taxes for 5 years. Fine for clover, fruit, stock-raising. Big booklet free. Oldest and biggest company in the business. Swigart Land Company, 1-1259 First National Bank Bldg., Chicago. 8

TO RENT

TO RENT—WRITE Miss Servoss, Edison Park, Chicago, Ill. Has place outside limits for fancy chickens only. 8

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SILKIE CHICKENS EXCHANGED for motorcycle, bicycle. Enoch Bailey, Albion, Ill. 7-9

AUTOMOBILES

FORDS CAN BURN half coal oil, or cheap-est gasoline, using our 1918 carburetor; 34 miles per gallon guaranteed. Easy starting. Great power increase. Attach it yourself. Big profit selling for us. 30 days trial. Money back guarantee. Styles to fit any automobile. Air-Friction Carburetor Company, 378 Madison Street, Dayton, O. 7-18-1f

WANTED

LOOK! WANTED—Pound size and larger pullets in Silver and Golden Campines, Buttercups, Speckled Sussex, Anconas, Rocks, Reds, Minorcas, Orpingtons, Wyandottes, Leghorns. Yearling hens in Silver or Golden Campines, Buttercups, Speckled Sussex, White Campines, S. C. White Minorcas. Only healthy thorough stock wanted. In writing, state lowest price. Walker Lybarger, Gambier, Ohio. 7-9

POULTRY EXPERT DESIRES position. Wide experience exhibition, commercial; expert conditioner. Address "Expert," American Poultry Journal. 8

EXPERIENCED POULTRYMAN desires position at once. A-1 reference. Halverson, 4545 N. Monticello Ave., Chicago, Ill. 8

WANTED—EXPERIENCED POULTRYMAN for a large, up-to-date plant. Single man preferred. Write for full particulars to C. F. Applegate, Supt., Mt. Pleasant State Hospital, Mt. Pleasant, Iowa. 8

WANTED—BY ENGLISHMAN—Position on large commercial egg plant, where brains, initiative and willingness to work would be given full recognition. Leonard F. Field, 452 Ferry Park Ave., Detroit, Mich. 8

WANTED—EXPERIENCED single man to have charge of poultry business on a modern farm near Chicago. Address Box O, care of American Poultry Journal, Chicago, Ill. 8

WANTED—A POSITION on a poultry farm the year round. Have had some experience with poultry and am taking a course in the American School of Poultry Husbandry. For further information, write R. A. Myers, Highland, Kansas. 8

E. B. Thompson's Imperial Ringlet Barred Plymouth Rocks



win at the Imperial Show of all the world, Madison Sq. Garden, N. Y., January, 1918, a new record unequaled in all history, as follows:



EVERY FIRST PRIZE OFFERED

Cocks	- - - -	1st, 2d, 3d, 4th, 5th.
Cockerels	- - -	1st, 2d, 3d, 4th, 5th.
Pullets	- - - -	1st, 2d, 3d, 4th, 5th.
Hens	- - - -	1st, 2d, 3d, 5th.
Exhibition Pens	-	1st, 2d, 3d, 4th, 5th.



One of the Great Imperial "Ringlet" Males. Observe the Wonderful Shape, Color and Barring.

Sweepstakes Champion Male and Female; Color and Shape Specials Male and Female; Best Five Males; Best Five Females; Best Display, and every other Special Prize. This is the capstone to their unexampled record at New York for 30 victorious years. At the last four shows—1915, 1916, 1917, 1918, they have won 19 First Prizes out of 20 offered. Every bird bred on my farm. Supreme at Madison Square Garden is Supreme Everywhere.

BARGAIN SALE FOR 1918

My Special Sale List is now ready and offers the most extraordinary bargains in extreme high quality breeding and exhibition birds of First Prize Madison Square Garden blood. This is your opportunity to secure Madison Square Garden winners, and sons, brothers, sisters and daughters of these winners, birds of this richest First Prize Sweepstakes blood at prices far below their values.

This Special Sale List

is full of the rarest bargains ever offered in the history of Barred Rocks and it will be to your best interests to write me for copy at once and secure the birds you need at saving prices. A copy will be mailed immediately upon request.

BARGAINS IN EGGS

from the finest matings in the world—\$5.00 per setting now. This is only one-third of my regular price. 100 eggs \$35.00.

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VOL. 49, NO. 9

SEPTEMBER, 1918

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879.

Published Monthly by the American Poultry Journal Publishing Company, 523 Plymouth Court, Chicago, Illinois. Subscription Price, \$1 for 3 years; 60c for 1 year

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FUL-O-PEP POULTRY FEEDS have no equals—our customers' experiences prove it. *2-pound Broilers at a Feed Cost of Only 18c!*

Think of that! Have you ever raised 2-pound broilers at 2 months old on only 18c worth of feed? Or 3-pounders at 3 months old? No, but you can do it with FUL-O-PEP FEEDS. Hundreds of poultry raisers who never did it before are doing it right along now with FUL-O-PEP FEEDS. Just read this letter from E. J. Acree, Brazil, Indiana, breeder of Imperial Blue Barred Plymouth Rocks:

E. J. ACREE
Breeder of

IMPERIAL BLUE BARRED PLYMOUTH ROCKS Eggs in Season and Stock for Sale at All Times

QUAKER OATS CO. Brazil, Ind., July 26th, 1918.

Gentlemen—I have been feeding your "Ful-O-Pep" Growing Mash to my chicks this season and I find it is by far the best feed I have tried in the mash line. Chicks fed this mash have made almost phenomenal gains in size and weight. Cockerels three months of age weighed 3 lbs. to 3½ lbs. Cockerels in one flock put on 1½ lbs. in 31 days, and some of the growthiest ones in last hatch put on 1 lb. in 18 days. These are the best gains I ever had with a flock of youngsters at this season of year. Very respectfully, E. J. ACREE.

OATMEAL

The Big Successful Poultry Man's Secret of SUCCESS with Poultry

The Success of FUL-O-PEP Poultry Feeds is a result of the *same thing* which the big successful poultry men discovered years ago—the *use of OATMEAL*, which they always feed extensively. But we went *several steps further*. While the base or bulk of FUL-O-PEP FEEDS is OATMEAL, we added *beef scraps, bone meal, green food* and other *protein ingredients*, completing a line of feeds which even the big poultry men find produce *phenomenal results*.

No wonder we get hundreds of enthusiastic letters from amateurs and experts in all parts of the U. S. telling us how *They Produce a Pound a Month Per Bird*. You can do it—*anyone can do it* with these wonderful feeds. If your chicks do not put on 1 lb. of weight a month, you are losing money. Weigh them—know what they are doing. FUL-O-PEP FEEDS make the greatest growth at the least cost.

We have the same enthusiastic letters on egg production. They tell us they never had such egg results. The secret is simply this: Until we brought out FUL-O-PEP DRY MASH, most people fed scratch feeds for eggs—**SCRATCH GRAINS DON'T MAKE EGGS**. Don't forget that. To get eggs give your hens FUL-O-PEP DRY MASH—a feed scientifically made to make hens lay, and it does it. We guarantee it.

With FUL-O-PEP Poultry Feeds you have a line of feeds for every feed need.

FUL-O-PEP Growing Mash for all growing fowls.
FUL-O-PEP Dry Mash for pullets and laying hens.
FUL-O-PEP Chick Feed for young chicks.
FUL-O-PEP Scratch Grains for the evening meal.

Each sack contains easy to follow feeding directions, and if followed you can't fail to get surprising results. Write for a copy of our FUL-O-PEP Poultry Calendar—a poultry book that is different—practical—helpful. Experts say: "The best poultry book published." Ask your dealer for FUL-O-PEP Feeds, if he can't supply you, write us.



A FUL-O-PEP White Wyandotte Pullet, 3 months old—weight 3½ lbs.



A FUL-O-PEP White Leghorn Cockerel, 9 weeks old—weight 2½ lbs. Bred and owned by Chas. Erker, 2008 N. California Ave., Chicago, Ill.

TESTIMONIALS

The Quaker Oats Co.,
Chicago, Ills.

Gentlemen:—Owing to freight delay, our chicks were some three weeks old before we received your FUL-O-PEP DRY MASH and GROWING MASH, but can say that we have been quite fortunate with our chicks. Out of 100 hatched we have raised 96 and they are sure fine. Some of our neighbors asked us what we fed our chickens to make them grow so. They were growing so much faster than theirs. Can also say that our chickens were the first on the market from this locality and commanded the highest market price. As our chickens are a mixed lot, have had no photos taken of them. Wish you could see some of our pullets. A neighbor used some of the poultry feed which she liked very much, especially the Growing Mash. Yours truly,

R. S. ARMITAGE.

Ardmore, Ill., Feb. 11, 1918.
The Quaker Oats Co.,
Chicago, Ills.

Dear Sirs:—Have used some of your Mash which I bought at The Fair, and think it great. Please send me your poultry book and calendar and oblige, Yours truly

E. W. GOLDING,
Ardmore, Elmhurst, Ills.

Evanston, Ills., 2145 Maple Ave.,
June 4, 1918.

Gentlemen:—I am certainly pleased with the results of feeding your FUL-O-PEP MASH. My record of eggs received thus far this year, is far above the number I received up to this time last year, and I am confident that my gain this year is due to feeding FUL-O-PEP MASH.

Yours very truly,
ROBT. KOEN.

TESTIMONIALS

Duluth, Minn., Feb. 4, 1918.
The Quaker Oats Co.,
Chicago, Ills.

Dear Sirs:—Received your valuable book and calendar "FUL-O-PEP" and find by my experience in the poultry business that the facts it contains are true, so the poultry feeds you make must be all you claim for them. Yours very truly,
ODIN BOLMA.

Big Falls, Minn., June 17, 1918.
The Quaker Oats Company,
Chicago, Ills.

Dear Sirs:—We have now used your Scratch Feed—Dry Mash and Growing Mash—and I must say they are by far the best feeds I have ever used. I am always ready to speak a good word for your goods. Yours truly,

OLE C. JOHNSON.

Early, Iowa, April 19, 1918.
Quaker Oats Co., Chicago, Ills.

Gentlemen:—Have 150 baby chicks I am raising on FUL-O-PEP FEEDS, and I never saw a healthier bunch in my life. They are three weeks old and look more like they were six. Yours truly,

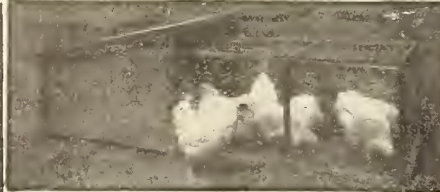
CHESTER L. MASON.

Beecher, Ills., March 14, 1918.
The Quaker Oats Company,
Chicago, Ills.

Dear Sirs:—FUL-O-PEP certainly has done my chickens good. I get more eggs now since I feed them with FUL-O-PEP than I ever did before. My chickens are so used to it, I think they can't go without it any more. Yours truly,
MRS. FRANK MOLDENHAUER.



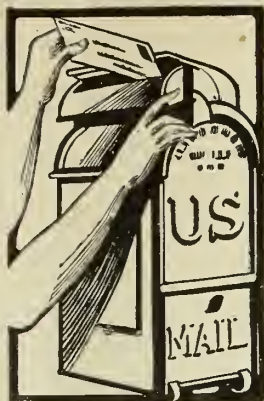
A group of 5-month-old White Wyandottes. These birds were raised exclusively on FUL-O-PEP POULTRY FEEDS. FUL-O-PEP GROWING MASH was kept before them constantly in self-feeders. Each evening they were fed FUL-O-PEP SCRATCH GRAINS.



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WINNERS FOR THE FALL AND WINTER SHOWS

until the other fellow has all the cream. Remember, you can't
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Come and bring your friends. Two bands will dispense music, and many other features
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Don't fail to see this collection of show birds before they leave for the Eastern shows.

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at the North Dakota Fair, 1918

1-2-3-4 Cocks.	Had 30 birds entered.
1-2-3 Hens.	Captured 31 ribbons—How's that.
1-2-3 Pens.	

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our mammoth, perfectly equipped farm is prepared to furnish you the best. Your inquiry
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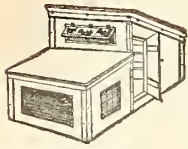
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White Quill White Rocks

Winners at Chicago Coliseum, Milwaukee Auditorium and Wisconsin State Fair. A choice lot of breeders at half price for immediate delivery. Eggs half price, from my exhibition bred-to-lay matings, \$2.50 and \$5 per 15, or \$4.50 and \$9 per 30. Six-Weeks-Old Chicks, \$1 and up.

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We have the quality.
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From the list of books below, you can select one covering any subject regarding poultry culture you may desire.

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The Marvelous Newtown Giant Stands Supreme Among Incubators

A strong statement—but we have *ample reason* to believe it to be *absolutely true*. Our faith is justified by the *consistently satisfactory performance of the machine itself under all conditions and in all parts of the world*.

The Newtown Giant is the only incubator for you if you require the machine which will positively "hatch the most chicks, the best chicks with least labor and at lowest cost." Below are a few reasons for acknowledged Newtown supremacy:—

Supreme in Efficiency

Actual performance in all climates, under all the varying conditions the world over, has demonstrated the Newtown to be the most efficient hatching machine.

Supreme in Construction

This applies to every part of the machine. The most exacting care and the very highest skill are used in manufacturing the Newtown.

Supreme in Durability

The Newtown is substantially built and will last a lifetime. Every part is carefully inspected and strongly put together. Each machine is completely assembled before shipment. This insures accurate fitting and perfect operation.

Supreme in Improvements

This has been the greatest factor in Newtown success. Only those features which stand the most severe tests are adopted. They include the Automatic Coal Feeder, Automatic Regulator at the Heater, Automatic Regulator of Heat, Ventilation and Moisture at each compartment, Automatic Eggs Turner, Automatic Temperature Indicator and Automatic Electric Alarm.

Supreme in Service

Nothing is left undone to insure that every Newtown user shall get the very best and greatest possible service from his machine. Everything is designed for convenience and service.

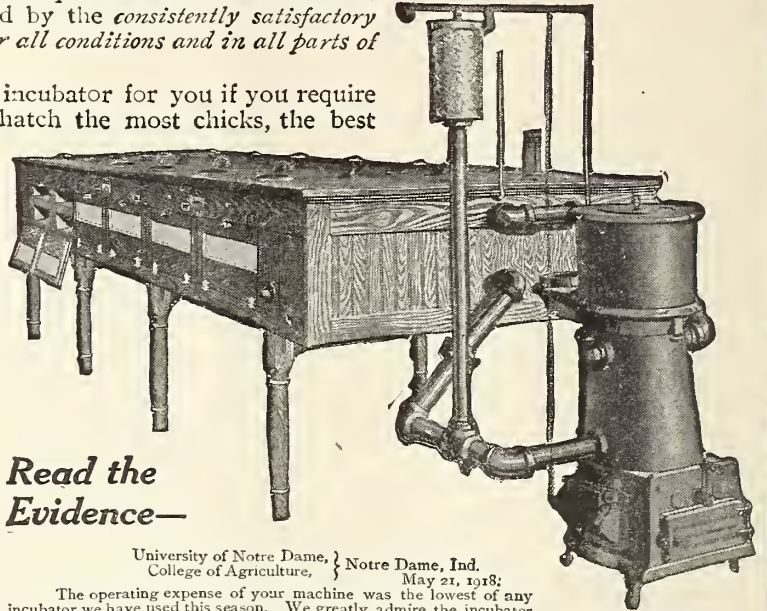
Supreme in Satisfaction

Every Newtown customer is a satisfied user. Ask the poultryman who owns one. A great many people who purchased Newtowns last year have already placed orders for increased capacity to be installed at once. This is the final test.

Supreme in Sales

Because they are supreme in Efficiency, Construction, Durability, Improvements, Service and Satisfaction, the sales of Newtown Giant Incubators are more than doubling each season.

Our new booklet—"Proof of Efficiency"—and complete catalog are yours for the asking. Every earnest poultryman should have them. Better write for them NOW!



Read the Evidence—

University of Notre Dame, } Notre Dame, Ind.
College of Agriculture, } May 21, 1918:

The operating expense of your machine was the lowest of any incubator we have used this season. We greatly admire the incubator in every detail.

W. A. JOHNS, Dean, College of Agriculture,

Zeeland, Mich., May 30, 1918.

Our 16,800 egg Double Deck Newtown Giant Incubator is doing good work, and I am ready now to recommend the Newtown Giant Incubator. I cannot give you record of our hatches just now but may be able to do so later on.

THE WYNGARDEN HATCHERY,
D. M. Wyngarden.

Odessa, New York, May 21, 1918.

I am so well pleased with the 3000 egg Newtown Giant Incubator that I feel I should write you about my success. The first time I filed it I had 2300 strong chicks from 3000 eggs. I am at present operating another mammoth machine of another kind, and find the Newtown much superior, especially in regard to uniformity of temperature, economy of fuel and ease of operation. The automatic egg-turning device is much appreciated after turning by hand. Would like to sell my other machine and buy another Newtown.

CAKLEMOOR FARM—Harvey J. Couch.

Bloomfield, Nebraska, June 10, '18

I have had a grand success with your machine. Have had 90% hatches each time. It is sure good—takes care of itself. I'm engaged in business and no trouble to run the machine besides.

C. F. STEFFENS.

Pittsfield, N. H., June 4, 1918.

Your machines have given the highest satisfaction, and should be glad to have you use my name at any time in advertising or as reference.

C. E. PRATT;

Brookhaven, L. I., N. Y., May 28, 1918.

I set my Newtown Giant Incubator with 1226 eggs and tested out 100, leaving 1026 eggs to hatch, and I took 852 chicks from the machine. A little better than 80%. That is what I call doing business. I have now two of your 11½ Brooder Stoves, and they are as good as the Incubator, and that cannot be beaten. I will recommend it above all others to all inquiring friends.

J. FRANK SMITH.

Wallingford, Conn., May 31, 1918.

Will say that we have just finished our hatching. We set 3675 eggs, hatching 2369 chicks, using one ton of coal.

THE GAYLORD FARM—H. L. Bushnell.

Criddersville, Ohio, May 22, 1918.

In regard to the 1200 egg Newtown Giant Incubator which I am now operating, will say that I am more than pleased with it, and would not exchange it for twice the capacity in lamp machines. Operating expenses are so low that we do not give that part of it a thought when hard coal is obtainable. About six cents a day pays for the fuel consumed. The machine hatches every egg that is hatchable—we have taken off as high as 130 chicks from a tray of 150 eggs set. Up to date we have hatched 4000 this season.

B. E. CRIDER.

Seven Valleys, Penna., May 21, '18

About the 6000 D. D. Newtown Incubator, wish to say the hatches were even better than we hoped for. While the winter was a severe one our February hatches, three of them, averaged better than 66%, and the average for all hatches this far, the first February 6th and the last May 17th—is some over 70% of good chicks from all eggs set. The way hatches are still coming we think the season average will be raised some, and the quality of the chicks is pretty well shown in the fact that at this writing we have orders for 9500 chicks for 1919. Reference to fuel consumption, we wish to say is but slightly more than it was with our 3000 egg incubator.

ZECH BROS.

NEWTOWN GIANT INCUBATOR CORPORATION
21 Warsaw Street, Harrisonburg, Virginia

AMERICAN POULTRY JOURNAL

Volume 49

Chicago, Ill., September, 1918

No. 9

Seasonable Suggestions for Fall Work

Getting Things Shipshape for Winter Quarters Means a Busy
Time for Poultrymen Big and Little

By Prince T. Woods

THE busy fall season for poultrymen, big and little, is again at hand and with it the necessity of getting things shipshape for winter quarters.

Summer ends September 22, and it has been a peculiar and interesting summer in many respects. It was ushered in, in many sections, with a severe freeze on the early morning of the first day. We have had dry spells, wet spells, alternating cold and heat, and streaks of dull, lifeless humidity. It has thus far been an exceedingly bug-infested season and we have had plagues of many sorts of bugs and plant lice—swarms of lice even attacking our white pine timber in hordes of millions. Yet in spite of all the drawbacks crops have done fairly well, chickens and live stock have done exceedingly well under unfavorable feed conditions, and, all in all, it was the best "old summer time" that 1918 handed out to us and those of us who are "back on the land" made the most of the summer we had.

Labor continues scarce and high in price and there is much work that must be done before cold weather. The fall harvest time will be exceedingly busy and short handed. The days are rapidly growing shorter and every available hour of daylight will have to be utilized to its utmost capacity.

Poultry houses need a thoro overhauling to put them in shape for winter quarters. Roofs must be mended to make them tight to keep out rain and snow water. Windows need cleaning, zinc tacks to hold in place any loosened panes of glass, and a good application of putty to make them weather-proof. Paint will not come amiss when one can apply same where most needed. The whole poultry house, inside and out, should be put in shipshape condition. Clean up, disinfect and sweeten with whitewash or with applications of crude petroleum. Wood floors and cement floors need to be cleaned and sprinkled with crude petroleum and, when dry, covered with a liberal application of sand or dry earth. Earth floors should be dug up for a depth of about 8 inches and the old earth carried out to be used on the land, new earth being used to replace the old. Small, earth-floor houses can be moved to new ground to save labor. Runs should be spaded or deeply plowed, spread with slaked lime, the latter harrowed or raked in, and then sow the runs to rye. Old, soiled litter and nesting material may be spread and plowed under on garden land, or should be burned. Give the poultry quarters a good sweetening generally—it pays.

Corn should be cut and allowed to cure in the shock before the stalks are injured by frost. The stover will then be in better shape for use as litter or for stock feeding. Properly cured corn stover, shredded, not only makes fine litter, but is good feed for fowls. Those who have no corn crop to harvest will do well to buy well cured corn on the ear and store it away for winter feeding. If one has no corn crib, ear corn may be sacked in grain bags and hung to the rafters in a shed or other outbuilding out of the reach of rats and mice. There is no better poultry feed than well ripened, well cured corn on the cob. Feed it on the cob, or have it ground, cob and all, to use in mash mixtures.

Those who are fortunate enough to have suitable storage

facilities, and sufficient cash, to lay in a stock of small grain and feeds will be wise to do so this fall. Oats are plentiful and as cheap as they are likely to be. Poultrymen who can and will club together to buy mill feeds can get same, when available, at wholesale dealers' prices in car lots. A considerable saving may be effected by buying thru local co-operative associations.

Potatoes are fairly plentiful and about as cheap as they may be expected to be. The small potatoes—too small to market—make excellent poultry food and will save grain. If well dried out and then stored in a good cellar these small spuds keep well. We bag them and hang them to floor timbers in cellar out of reach of rats. We feed them raw to poultry and cows and hogs, also feed them cooked for poultry and hogs. Cabbages, beets, mangels, stock carrots and unmarketable apples are all stored for winter feeding. Squashes and pumpkins also are used as grain savers. We aim to have an abundance of winter keeping vegetables and fruits stored away for use of the family and for all live stock.

Our yearling hens, the ones we intend to winter and those we have reserved for the family table, have all been on woodland range—orchard range is good where there is no woodland—where greens and insect life are abundant, all thru August and part of July. These birds will stay on range until well molted and will go into winter quarters before settled cold weather. Most of them have been laying uncommonly well all summer and may be counted on for a good supply of eggs until the early pullets are well established in laying. Those we intend to breed from next spring will be housed first and encouraged to let up on egg production until eggs are needed for the early broods. They will get an ample supply of hard grains, greens and vegetable food, but only a limited supply of concentrated mash.

The early pullets will go into winter houses soon after the middle of September and should all be housed by the last of October. They have been getting practically the same ration as laying hens for some time and are beginning to shape up in good style. Some will be laying by the latter part of September and most of them should be in full lay before Thanksgiving. The pullets need a little special attention. When first housed, they should have liberal yard room and an abundance of green food. One of the best ways to supply fall greens for pullets is to sow the runs to rye. Do not crowd these youngsters. See that they have abundant house and yard room and plenty of room on the roosts. Keep the houses open. Fall colds in young stock are commonly the result of crowding the houses, closing the houses too much at night and overcrowding on the roosts, as well as sleeping and crowding in bunches on the floor. When pullets begin to lay they should be pretty much all appetite and must be fed liberally on wholesome food in variety. They will stand heavy feeding on grains and concentrated mash if supplied with plenty of greens and fresh raw vegetables. They must have plenty of clean, fresh drinking water. There is practically no danger of overfeeding laying pullets and there is very grave danger of underfeeding them.

Later hatched pullets will not need to be housed as early, but should go into winter quarters before settled cold weather. They will require rather heavy feeding from now on to shape them up and mature them well before housing time. Do not crowd them. Keep them in small flocks and have them occupy open-front sleeping quarters. Utilize available range for the flocks until the heavy frosts kill the pasturage. Frozen green stuff does not make satisfactory food.

Most of the cockerels, except those intended for breeding, sales, or for the home table, should be marketed when they make small roaster size. A good many of our back-lot friends have canned their surplus chickens this season and will can more this fall. This is a good plan and the canned chicken will prove a very satisfactory meat supply during the coming winter.

It is a good plan to store away a liberal supply of dry earth or sand under cover for use on poultry house and brooder floors later on.

Contrary to popular belief, we are of the opinion that pullets or fowls kept exclusively for egg production are much better off if kept without any males in the flock. They certainly lay just as well, or better, as when running with males; the non-fertile eggs are preferable for storage and table purposes.

In many sections oyster shells for poultry feeding are not plentiful nor readily purchased. Crushed clam shells, mussel shells, or other sea shells, will serve in place of crushed oyster shells when the latter are not available, but we prefer oyster shells for providing our flocks with dependable egg-shell material and needed lime. It will be a wise plan to lay in a full supply for use the coming season.

For use in mashes, and for littering brooders for baby chicks, we prefer good cut clover made from well-cured clover

rowen. Next to this comes alfalfa. Supplies should be purchased early this fall, while the opportunity for prompt delivery is reasonably good.

Chestnut size hard coal for brooder and incubator use should be stocked at once. It may not be possible to get a supply in winter and early spring when needed for immediate use.

While conditioning birds for the fall and winter shows is practically a continuous performance from shell to showroom, there is much that may and should be done in the way of special care and grooming for show specimens. Be sure to do your utmost to help your local poultry exhibitions, get your birds into competition and help keep up the interest in Standardbred poultry.

Standardbred poultry means better poultry and greater uniformity, and there is great need of more and better poultry. Do your bit for the Standardbreds. More and better Standardbreds means more eggs, and our Yankee soldier boys yearn for more eggs. According to reports from the Y. M. C. A. huts "over there," the first call of the American soldier when he seeks "eats" at a Y. M. C. A. hut is for "fried eggs, fried on both sides." It is stated that Mrs. Stroud, a cook in a Y. M. C. A. hut in Liverpool, fried 1,236 eggs "on both sides" for American soldiers in one ten-hour day. The call for eggs is increasing "over there" and in every hut there is a demand for "fried eggs, both sides."

The American hen is no "slacker." If our boys want eggs, they must have them, and Bidly is going to be right on the job.

Winter as many layers as you can properly feed and care for, so that they will be productive. Keep up the egg supply so that there may be no unnecessary shortage of hen fruit that may be "fried on both sides" for our own boys "over there."

WINTER GREENS FOR POULTRY

Paper Read Before the Tulare Poultry Association,
February 4, 1918. *By Charles Weeks, Palo Alto, Cal.*

EVERY poultryman should have a poultry garden. This poultry garden is absolutely necessary in order to get maximum results in the poultry business, whether for eggs or meat. This garden requires careful planning and preparation so that a good variety of green feed can be had every month in the year. It is impossible for the poultryman to make much money with hens by buying only mill feeds and grains.

The dairyman cannot make a profit by buying all the feed his cows consume. He must grow alfalfa and other feeds for the silo.

The profit of the poultryman increases in direct proportion to the tonnage of greens produced and fed.

No poultryman has ever succeeded on a dry, barren place to any appreciable degree. The most successful have a large variety of green feed.

The very first piece of work on any poultry ranch is to lay out the poultry garden and plan the planting so that a good variety of crisp, tender greens can be had 365 days in the year. The next order of business is to see that these succulent greens find their way to the feed trough of the hens at least once each day and in sufficient quantities to have some left over at each feeding time.

The more variety the better. The best tonnage is produced from kale, mangel wurtzel (either red or yellow), alfalfa, cabbage, chard and green barley.

February is the time to start the hotbeds for kale plants and cabbage and mangels. These plants should be grown quickly and set out when not too old.

The soil and water conditions for a poultry garden are of first importance. The soil should be a rich sediment loam. Not too sandy, for then it will burn out in hot weather. Not adobe, for then it is hard to work and too cold in early spring.

A pumping plant is better for the poultry garden, for then you can turn on the water any time it is needed. Here in California water for irrigation is absolutely necessary.

Plow the sediment loam deep, and have seed bed in fine condition. Set out the early kale and cabbage in March or April. For kale, put in hills three feet each way. Cabbage can be set two feet each way. Use jersey kale or thousand-headed kale. A good giant cabbage is the Autumn King.

Mangels can be transplanted from beds if allowed to get larger than one's finger before transplanting. They need to be well watered until started. The most common way is to drill in rows about two feet apart and thin down to six or eight inches between each plant.

If the soil is rich and well watered, these will grow so fast that they cannot be cultivated except when the leaves are picked off. We make it a rule to run thru with the one-horse cultivator as fast as a crop of leaves are stripped off and follow with the hoe. This makes a complete cultivation every three or four weeks, and it is irrigated just before each cultivation.

It is well to irrigate kale and beets in trenches or furrows, as the tops grow so rank that it is impossible to get thru the patches. We pick the tops from the mangels every three or four weeks, just the same as kale; also, the under leaves of the cabbage are stripped off, leaving the heads quite bare.

I use a tremendous amount of poultry manure on my kale, mangels and cabbage. This forces a quick, tender growth when well watered. Kale that is not well watered grows blue and tough and is too bitter for the hens. I pile on poultry manure from two to six inches deep between the rows, then turn on the water, and the growth is so luxuriant that the sun hardly ever strikes the ground.

Every three or four weeks during the summer season we have a heavy crop of crisp, succulent, tender tops that are

sweet and nourishing, and are eaten with a relish by the hens.

During the summer months we feed kale, mangel tops and alfalfa. For winter greens we have the roots of the mangels, cabbage and green barley. Kale runs also well thru the winter, but does not grow much after the frosty nights.

Barley is cultivated into our alfalfa patch in September, so that we cut barley all winter where we cut alfalfa all summer. Thus we get twelve cuttings per year from the same ground. We pile on the poultry manure after each cutting of alfalfa during the summer and flood it well. This makes a quick, tender growth that is very sweet and relished by the fowls. It is astonishing what tonnage is produced in this way. Water, soil and plenty of manure will produce as high as 300 tons per acre in mangels and kale.

The secret in winter greens is to have the tonnage already grown when the frosty nights come.

The climate is such at Palo Alto that we have our beets and cabbage grow in the ground all winter and pull them as we need them.

If you were on my ranch at 1 o'clock on any day, you could see the red combs of 6,000 hens sticking their heads thru the opening to the long troughs on the outside of the pens and eating greens. Not one kind, but three or four kinds, well mixed. Today (the 4th of February) we feed heavily of shredded mangels, along with green barley and some alfalfa that grows protected up thru the barley, and on Saturdays a big head of cabbage to each pen, enough to last over Sunday.

We manage in this way to have greens every day in the fall and winter, and our egg yield during November, December, January and February runs close onto 50 percent. On some pens it is as high as 67 percent during the month of December, from late hatched pullets.

In colder places, mangels and cabbage could be pulled and put away in a shed. I have tried carrots, but they do not produce enough tonnage and are rather tedious to raise and gather. I am also trying Giant Marrow cabbage, which bids fair to make as good tonnage as kale and is of a fine sweet flavor, well liked by the hens.

Cabbage for winter feed should be planted out of the hot-beds about August or September, so that it will have a good growth before frosty nights.

With a large tonnage of mangels and cabbage on hand when frosty nights set in, with kale to fill in and barley already grown in the alfalfa patch, winter greens can be assured.

Bear in mind that if you have not the conditions for growing greens in large quantities, you might just as well stay out of the poultry business. If you are to succeed, be sure you have the correct conditions to start with. If you have these conditions, fertile, sediment loam soil, cheap irrigating water in large quantities, and any amount you want, and not too far from a good market, if you have these conditions, with a good climate thrown in, then you can go ahead and be assured of success.

With well bred hens, housed in small open-front houses, well cleaned, with green feed of several varieties before them all the time, and a variety of grains with rich, dry mash, where they can wait upon themselves, your profits are assured, and if you make less than \$2 per hen per year, you are not doing as well as can be done.

In a dairy country, where you have plenty of milk, it will add much to your profits to feed a quantity of thick cheese on top of the green feed each day. This will get the highest production of eggs possible.

Another feature that is adding to the success of poultry



ON THE BARRED PLYMOUTH ROCK FARM OF J. W. PARKS, ALTOONA, PA., BOX J.

(6) "Home, Sweet Home." (7) Our style of movable colony houses and portable fences for young stock. (8) Our fox terriers make life miserable for any stray rats. (9) Heavy egg breeding and winner of American Rock Club special at Youngstown, O. (10) Winning pen at Missouri contest.

is that of co-operation. A co-operative community, where feeds can be purchased in quantities and produce handled in a block, has many advantages, and so many that a poultryman cannot afford to be outside a community of this kind.

The Poultry Producers' Associations of both Central and Southern California is a movement that will standardize our products and put the business on a stable basis. Have patience with these organizations and stand by them to a man, for they are the greatest movement that has ever been launched for the good of both producer and consumer.

Disposing of the Cull Young Stock

How to Crate Fatten—A Good Ration—When to Market. First Prize Article
AMERICAN POULTRY JOURNAL Monthly Contest.
By Otto E. Hackman

IN EVERY flock, no matter how well bred, there are always a number of culls, in some flocks more than in others, and it becomes a problem to decide how best to dispose of them. With poultry feed at present prices no one can afford to hold onto inferior stock for any length of time. Every day the culls are kept increases their cost and decreases the profits on the good birds. Moreover, these culls will not bring as good a price per pound later on in the season as they will now.

Culling out all the cockerels that are in any way inferior for good breeding birds and putting them on a special fattening ration and later selling them as broilers or roasters seems to me to be the best procedure. A great advantage to be gained by disposing of all undesirable birds as soon as possible is that more time and better quarters can be devoted to the rest of the flock.

Either pen fattening or crate fattening may be resorted to, to get the birds in marketable condition. The latter method usually brings the best results. The birds are in this way under the full control of the feeder and he is in a position

Col. Harris Weinstock has a broad plan that will revolutionize marketing conditions and bring the producer closer to the consumer. Co-operation is the salvation of the poultryman.

There are three distinct results obtained by the liberal use of green feed for poultry:

1. Green feed keeps the flock healthy and saves in loss of hens.
2. Green feed saves grain and mill feeds, and also causes better assimilation of that eaten.
3. Green feed stimulates the production of eggs.

to regulate the amount and kind of food required to put on a given amount of weight. When the birds are accustomed to having unrestricted range, it may not be advisable to transfer them to confined quarters and a fattening ration too abruptly. Having been accustomed to unlimited range, they will not take kindly to close quarters and are apt to be easily put off their feed and to thus lose weight instead of gaining it.

The birds which show a tendency to be nervous and restless and which do not consume much food at a time should be kept in a separate pen in which they can move about freely. They will fatten better under such conditions. They should be gradually taken off of their accustomed feed and the fattening ration substituted, while birds which have been confined in runs can be put into crates at once and given the special ration from the start.

Crates for fattening poultry may be constructed of any material in the way of waste lumber which is usually lying around the farm. Care should be taken to have the crates large enough to comfortably accommodate ten or twelve birds each. Too much space should not be permitted, as this allows of the fowls moving about too freely, but on the other hand cramped quarters will result in crowding and sweating, and this is conducive to removing flesh rather than putting it on. Also, if the space is overcrowded the birds will fret and worry, and in such cases the birds get off their feed and make no gain.

The crates may be enclosed on all sides except the front, if desired, but it is preferable to have all the sides slatted, permitting a free circulation of air. In the front side of the coop the slats should be run up and down and be spaced about two inches apart. A trough should extend along the entire length of the coop in front, by means of which all the food should be fed, the birds eating by inserting their heads between the slats. A piece of board about a foot long and five or six inches wide should be nailed to each end of the coop, extending out in front about six inches. Notches should be cut in these boards and the trough fitted into the notches, giving it a good support. The trough can then be easily lifted out and cleaned when desired, for it is imperative that no food be allowed to remain in the trough and become sour. The bottom of the crate should also consist of slats, spaced one-half inch apart, so the droppings will fall thru, thus keeping the floor free from filth.

Two weeks is the length of time required to put broilers in prime market condition. A longer time than this is inadvisable because the birds usually get off their feed and refuse to eat enough to make any gain after having been stuffed for two weeks. They usually make considerable gain in weight the first two weeks, but afterward the gain is so little, if any at all, that it does not justify the time and expense necessary for it. Just as soon as the birds show a tendency to take less food or fail to make gain in weight, they should be marketed.

A good fattening ration consists of 4 parts cornmeal, 2 parts bran, 2 parts ground oats, 1 part middlings and 1 part beefscrap. A little bonemeal, charcoal and salt is beneficial if mixed with the mash. This should be mixed up by using either whole milk, skim-milk or buttermilk, if any of these



Barred Rock cockerel, on farm of M. E. Thomson, Dept. A, Austin, Minnesota.

can be obtained at a reasonable price. Otherwise, water must answer the purpose. The mixture should be a thin batter, just so it will run off a spoon, and should be fed twice a day only—but all they will eat up clean. If any remains it should be removed at once, lest the appetites of the birds become impaired.

Before beginning with the ration, the fowls should be confined in the crates the first day without giving any food at all, allowing only water to drink. When starting them on the ration after the first day's fast, give only a small amount at first, but gradually increase the amount till they take all they will consume. If the fowls become restless, darken the coops with a cloth.

Each poultryman must decide for himself whether it is more profitable to market his fowls dressed than to ship

them alive to market. In all probability, unless he is familiar with up-to-date methods of dressing poultry, he will be better off to ship them alive. But poultry that has been well fattened, dry picked and properly cooled will bring the highest prices in all markets. There is a certain bloom to a dry-picked, well iced bird which will not easily come off and which finds ready purchase among discriminating buyers.

Many poultrymen have the advantage of a nearby market where they can retail prime market poultry at top-notch prices. The best prices are usually obtained by selling to clubs, hotels and country road houses. In many sections the private family trade is excellent, but as crate fattened poultry must be sold when ready for market, the poultryman must have his market at the right time.

How to Keep Looking on the Bright Side

Our Flocks are Decreased—We Have Houses and Runs Empty but are Keeping the Business Going Without Loss, Helping to Feed Ourselves and Marketing the Surplus. Second Prize Article A. P. J. Monthly Contest. *By Mary Wayne Brown*

FOR a number of years before the war, which now seems a long time ago, we made our living raising Standardbred poultry. In those days grain was cheap and plentiful, and while prices were not always what they should be for poultry products, yet because there were several of us devoting our time and efforts to the undertaking, we managed to make a comfortable living. When I say, comfortable living, I do not mean that we lived luxuriously or even so well as many of our neighbors lived on salaries, but we were always sure of a good living and we learned to take our vacations as we could get them, a day now and then when the work and income would permit.

With the coming of high-priced grain we were forced to reduce our poultry work to "family size." When I say, family size, I do not mean a few birds in the backyard, but a flock of one hundred or more, just a good war-time flock. Last year we got the matter fairly well in hand, but this year we have it down to a science. We hatched about 125 chicks, and when we began eating them in July, we had 115. As soon as the cockerels were in the neighborhood of two or three pounds, we culled out all the cockerels which did not promise well—that is, off in shape or coloring—and canned them for winter use. There isn't any nicer meat than good canned young chicken and we have a nice little row of jars on a closet shelf that will be very handy to turn to next winter. As the flock develops, we cull out every bird that does not promise well and make a dinner of it.

The yearling stock is treated much in the same manner. We now have few yearlings on hand, having saved only the best for breeders the coming winter. We do not believe that it is wise to depend on pullets and cockerels for breeding purposes and always select the best birds from the pens of the previous season for use in the breeding yards. These birds are not forced in any way and by the first of the year are in the pink of condition to begin the business of reproducing themselves. When we had big flocks, we used to sometimes keep over birds of which we were not wholly sure of their worth, but now that we cannot have but a few we have only birds of true merit.

Early in the spring we began putting down eggs for home use and have enough on hand to last us the year round to putting-down time again; so that we are able to sell the eggs which we are now getting from last year's pullets, which helps considerably in paying the grain bill.

We have made every effort to have a large garden this year, and, in addition to supplying the home table with vegetables, we have grown a great amount of green stuff for the poultry. We are digging potatoes now, and will have enough small ones to last our flock for some time. Then there are the usual leaf vegetables, and later root vegetables, which will keep them going the greater part of the time until the grass begins to get green in the spring. By following out this method in keeping a small flock, even with grain at \$5

a bag, as it was so much of the time last fall and winter, we are suppling the home table with poultry and eggs at less cost than if we were buying same in the market and what amounts we may be able to get for stock and eggs in addition to this, we consider fair remuneration for the labor we are putting into it.

This is about the best plan that we have been able to work out under present-day conditions. Of course, our general living expenses are earned outside of the work with poultry, but we are in this way holding onto our flock of best birds and hope eventually to again take up the breeding of Standardbred poultry as a business. Altho our flocks are greatly decreased and we have houses and runs empty, yet we are able to keep the business going without loss, and incidentally helping to feed ourselves and market a surplus.

While eggs and poultry are fewer on farms and village lots than ever before, the prices paid for these in the market are not accordingly as high as one would suppose. This is a condition which cannot continue. I do not believe that the



S. C. Rhode Island Red cock, on farm of Gerld Thomson, Dept. A, Austin, Minn.

average person will forego the fresh egg in the family dietary, especially as people are as never before learning the value of eggs as food. Many eggs cannot be sold at an excessively high price such as may occur in seasons of scarcity, but the benefit to the poultryman will come not thru \$1 a dozen eggs once or twice a year, but thru higher prices for eggs in the so-called flush season. Under present conditions eggs should never go below 50 cents a dozen. They are exceptional value at that price and no one who has a knowledge of food values would consider them other than cheap at that price. We have seen them go somewhat below this figure within the last six months, but I do not believe that such will be the case next season.

There is no way by which we may know the actual decrease in the number of fowls in this country during the past year, but one has only to look about to realize that it is great. "One hundred fowls on every farm" will not replace the thousands on big poultry plants that have been slaughtered. The

problem which the established breeder has to face is that of carrying on until conditions begin to better. I believe this may be done by following the plan which I have outlined, since by such a plan there is no risk while continuing the business on a small scale. The careful breeder can also learn a great many things of value while handling a small flock which would be apt to be overlooked where a great many birds are kept. I am keeping my eyes open and endeavoring in every way to learn what I can out of the experience. Nothing ever happens but what we can learn valuable lessons therefrom if we are awake to the opportunity. Too many are going about bemoaning war-time conditions and thus blinding themselves to the right course to pursue. Let us bear in mind what the old philosopher said about earthquakes: "They're somewhat shaky at the time and rather disconcerting, but how would we have ever known there was such rich ore under us if the quake hadn't left this cleft in the earth?"

Fight Poultry Lice and Mites Now

Helpful Information Gleaned from Bulletins 533
and 801 of the U. S. Department of Agriculture

LICE and mites affecting poultry multiply very rapidly at this season of the year. Now is the time to fight them and to keep everlastingly at it until the birds are certain to go into winter quarters free from vermin.

Both lice and mites hatch, grow to adult breeding size and reproduce themselves, in hordes of these profit-killing, health-destroying, parasitic pests, in an incredibly short time. Bulletin No. 533, "The Chicken Mite: Its Life History and Habits," by H. P. Wood, and Farmers' Bulletin No. 801, "Mites and Lice on Poultry," by F. C. Bishop and H. P. Wood, of the Bureau of Entomology, U. S. Department of Agriculture, contain much useful information concerning lice and mites and their extermination. Herewith we present gleanings from these bulletins which we believe will prove of special interest and particularly helpful to our readers at this season.

POULTRY LICE.

Poultry lice are not fitted for sucking blood. They feed on portions of the feathers or on scales from the skin, and their presence in any considerable numbers is responsible for serious injury.

Chickens hatched after April 1 and brooded by hens experience a high mortality, much of which appears to be due directly or indirectly to lice. The lice often leave the hens and pass to the chickens before these become dry after emerging from the shell.

The first symptoms of lice infestation usually are droopiness, lowered wings, and ruffled feathers. Diarrhoea follows, and the chickens then often die in a few days, or, when older, sometimes fall a prey to various diseases. Fowls may lose weight and sometimes die as a result of lice or succumb to some of the common chicken maladies.

There are seven species of lice common to hens, spoken of as body lice, head lice and feather lice, according to usual places in which they are found. The different species intermingle to a considerable extent.

The eggs are deposited on the down of the feathers, either singly or in clusters, according to the species of lice. The eggs hatch in from four days to a week. The adult stage is reached in from 17 to 20 days after the eggs are deposited. The heat of the fowl's body is necessary for hatching the louse eggs, and the lice themselves die in a short time when off the fowl.

CONTROL OF POULTRY LICE.

There is no fundamental reason why a flock should not be entirely freed from lice and maintained in this condition. Reinfestation comes principally from stray fowls which gain access to the poultry yards and from purchased stock added to the flock.

Treatment of the entire flock during the late summer and

early fall is recommended. At this time of year weather conditions usually are favorable to dipping, most of the young fowls are well matured, and much of the superfluous stock has been disposed of, so that there are fewer birds to treat. It is better to have treatment precede molting. Poultry houses and runs should be disinfected and it is well to make a general clean-up at the time the flock is treated for lice. Care should be taken to avoid the escape of fowls from infested to uninfested pens.

The authors of the bulletin tested a number of materials for lice destruction and found nothing else so satisfactory as *sodium fluorid*. It is exceedingly poisonous to all species of chicken lice and it kills both adults and young, including the young which emerge from the eggs present at the time of treatment.

Sodium fluorid can be obtained in two forms, known as commercial and as chemically pure. Both are in dry state, the former being a dry powder and the latter consisting of small crystals somewhat lumpy. Commercial form is cheaper and is more convenient for application by the dusting method. The chemically pure form is preferable for the dipping method. Owing to limited demand the material is not ordinarily found in drug stores. Druggists can obtain it readily from manufacturing chemists. It is important that the name *sodium fluorid* be carefully stated to the druggist to avoid error.

In treating poultry with sodium fluorid, if proper methods are followed, a remarkable degree of control is obtained. One application of sodium fluorid to all fowls on given premises will completely destroy all lice present. It is essential to make sure that the treatment is thorough and that every fowl is treated. If one infested chicken escapes, it will in a short time reinfest the entire flock.

Application of sodium fluorid in dust form is comparatively slow of action. It takes four or five days for all the lice to disappear. "The pinch method" is recommended for dry dusting. When applying the material by this method it is placed on a table in an open vessel and the fowl is held by the legs or wings with one hand, while with the other hand a small pinch of sodium fluorid is placed among the feathers next to the skin about as follows: One pinch on the head, one on the neck, two on the back, one on the breast, one below the vent, one on the tail, one on each thigh, and one scattered on the under side of each wing when spread. It is advisable to hold the chicken over a large shallow pan, as in this way the small amount of material ordinarily lost is recovered.

The dipping method is recommended as much more quickly effective in killing the lice. Fowls and feathers are not injured. The first requisite is a warm, sunny day, so that the

fowls will dry quickly. Windy weather should be avoided. In dipping fowls, as described below, the feathers do not get thoroughly wet, and if the operation is finished an hour before sundown, the fowls will become dry before going to roost.

In using the dipping method, all that is necessary is a supply of tepid water and a tub and a sufficient supply of sodium fluorid. The water should be measured into the tub and three-fourths of one ounce of commercial or two-thirds of an ounce of chemically pure sodium fluorid added to each gallon of water. It is readily dissolved by stirring. The tub should be filled to within 6 or 8 inches of the top. Add more solution from time to time as tub content is lowered through dipping fowls.

In dipping the fowls it is best to hold the wings over the back with the left hand and quickly submerge the fowl in the solution, leaving the head out, while the feathers are thoroly ruffled with the other hand so as to allow the solution to penetrate to the skin on different parts of the bird. The head is then ducked once or twice, the bird is lifted out of the bath and allowed to drain a few seconds, and is then released. The total time required for an individual fowl is from 30 to 45 seconds.

Sodium fluorid is very destructive to lice without producing ill effects on chickens. The dust may cause temporary irritation of air passages and sneezing. Dust reaching the skin of operator and allowed to remain a number of hours will cause local irritation and burning. The solution does not injure hands, except in cases where sores are present, which may become slightly irritated. The solution should not be kept in galvanized iron vessels any great length of time, as it will injure them. Sodium fluorid should be kept in closely stoppered bottles.

The cost of dipping, including labor, is less than one cent per bird treated when treating 100 or more fowls.

The thoro application of flowers of sulphur as a dusting powder is quite effective in ridding fowls of lice, the cost is comparatively low and the sulphur is not disagreeable to handle. No injury of fowls has been noted when sulphur is used as a dusting powder.

Dipping fowls in a soap solution, made by dissolving one ounce of laundry soap in a gallon of water, will destroy all lice present, but a second dipping 10 days later is necessary in order to destroy the lice that have hatched from eggs which are not killed by the treatment. The soap causes thoro wetting of feathers and fowls require more time to dry. Should only be attempted in favorable weather.

Mercurial ointment or blue ointment, as often recommended, will reduce the number of body lice but has little effect on the head and wing lice. For head lice on young chickens carbolated petrolatum, applied in small quantities, has been found quite satisfactory. Dust baths are not to be depended upon to rid fowls of lice.

THE CHICKEN MITE.

The chicken mite, "red mite," feeds chiefly upon the blood of chickens and fowls. It is white or gray in color except when full fed, when it is bright red or dark red, according to the state of the blood which it contains.

The mites breed in cracks and crannies of woodwork of poultry house, roosts and nests. The eggs hatch in 48 hours. In about 24 hours after hatching the larva becomes a blood-sucking nymph, passing from this stage into a second-stage nymph after a period of about 24 hours or less. Adult stage is reached with the next molt, and within 12 hours after gorging herself with blood the female begins depositing eggs.

The rapidity with which the mite may reproduce is amazing. The possible progeny of one female in five weeks is conservatively estimated at 1,631 individuals, or, considering the duration of life of a female as eight weeks, her progeny would total 2,609 mites.

The mites die off much faster in the absence of food during the hot summer months than they do in the winter. All stages on a stick of wood lived 91 to 113 days in the months of September to January, inclusive.

The usual habit of the mite is to feed at night. Two hours before dark a fowl was put on a roost containing a large number of hungry mites. Very few mites ventured far out

of their hiding places at this time. A few did go to the fowl. At dark, two hours later, only four mites were found to have fed and left the fowl. One hour after dark nearly 600 mites had fed and left the fowl. One and a quarter hours later 535 more fed mites left the bird. Mites continued to drop in smaller numbers until after daylight. All stages of mites will go on a fowl, feed, and leave it in less than two hours. They do not necessarily all crawl off the fowl before it leaves the roost; both fed and unfed mites may be retained in the feathers when fowls are running about.

It would be advisable for a person introducing new stock into his mite-free flock to use a little caution. New stock not known to be free of mites should be allowed to roost the first few nights on a new roost wrapped with pieces of folded paper, preferably black. The object of using the paper is to furnish a convenient place for mites to hide. The paper may be examined and if mites are found the fowls should be kept on this roost for five or six days until no more mites come off. If mites are discovered, by removing and burning the papers and treating the roost thoroly with kerosene or crude oil, any danger of the mites getting back to the fowls can be avoided.

When mites are found on house walls the infestation must be a heavy one. Direct rays of sun act as a powerful killing agent when mites are exposed to them. A crack in a board, or only a rough place, or it may be in the dry manure, or about nails, etc., all provide suitable dark places for mites to propagate.

Mites may be spread in following ways: 1. By infested fowls transferred to clean localities. 2. By use of boxes and crates in which infested fowls have been kept. 3. Thru the carrying by man of mites on his clothing, thereby starting infestation. 4. Thru the carrying of mites by sparrows, and probably by pigeons, from one place to another in their feathers. 5. By horses, cattle, dogs, cats, and certain wild animals, such as foxes, skunks and weasels; also rats and mice. 6. By migration of the mites to buildings in contact or close proximity to infested premises.

Mites may kill sitting hens, brood hens and young chickens. They seriously injure fowls and may cause them to become victims of poultry diseases.

Crude petroleum applied to woodwork of poultry house, nests and roosts will destroy mites if applied thoroly. It may be put on with a sprinkling pot and a large paint brush. For use in a sprayer the crude oil must be thinned with kerosene. Crude petroleum retains its killing power for several weeks.

All complicated nests and roosts should be avoided. Use simple nests and roosts which can be easily removed for cleaning. Apply crude petroleum to roosts, dropping boards and to nests, walls and floors if signs of infestation. Repeat once a month for three treatments to make sure of killing all mites.

OTHER MITES.

Scaly leg is caused by a species of itch mite. Application of crude petroleum or of sulphur ointment will rid the fowl of this pest.

Another scab mite attacks the comb. Plain sulphur ointment,* or compound sulphur ointment, will rid the bird of such mites if applied two or three times, three days apart, to the affected area.

Another itch mite, the depluming mite, causes loss of feathers. Application of sulphur ointment to the bare parts and to the base of feathers about this area is the remedy.

There are various other mites affecting fowls, not very common or abundant, and apparently not causing serious injury as a rule, which is fortunate, as treatment is difficult.

A favorite chick ration in the early 'Eighties was: fifteen pounds of oats, twenty pounds of corn, ten pounds of barley, all ground together into meal. Mix in five pounds of wheat bran. Bake this meal into a cake, mixing with milk, same as any johnnycake. Bake hard, crumble into scalded sweet milk just before feeding and feed moist but not sloppy. Recommended for chicks up to three weeks old.

Philander Williams Memorial Meeting of the American Poultry Association

Forty-third Annual Convention, Held at Lexington Hotel, Chicago, August 12-15, One of the Most Harmonious and Beneficial Gatherings Ever Held by This Association.

By Theo. Hewes

LOOKING at the annual meeting from every angle, we believe there was more real good work accomplished, work that has a greater bearing on the future success of the American Poultry Association, than any one meeting we have attended in the past twenty years. For a great many years there have been some members attending the annual meeting who came for the sole purpose of doing work and a lot of it. They had no other reason for being there and they have done their best to inject this spirit into others, but unfortunately they did not always succeed. Many, decidedly too many, attend the meeting to have a good time and they were perfectly willing to throw all the heavy jobs on the willing workers, with the result that our conventions were strung over several days and the strain on the workers grew to such intensity as the hours dragged along until it came to a point where the nerves snapped and a few pointed remarks at the wrong time would start a small row that would soon spread thru the convention, bringing with it hard feelings and uncomplimentary remarks. I mention this fact here for comparison only, for it was the byword of this convention, not by one member, but by practically all of them, "Did you ever see so much real harmony and such little contention among the members on important subjects?"

The facts are that every man and woman who attended this meeting brought with them the sense of their personal responsibility to the American Poultry Association and felt from the very opening moment they had come here to do their bit and that every moment was valuable time to all and this was no time for recreation, but a mighty good time to get right down to "cases" and do some real constructive work.

The officers had planned a program that omitted all frills and money-spending side shows; the result was that more work and better was done than at any meeting in recent years, and this work was so divided that no one broke down under it and everyone left after the meeting adjourned with a better feeling and with more money in their pockets than ever in the history of our annual conventions.

The Lexington Hotel lived up to its tradition of giving more than it advertised and for once in the history of the American Poultry Association a vote of thanks was tendered to the management and the employees of the hotel that had served us to the entire satisfaction of all.

MONEY CAME EASY.

For many years we have thru the sale of Standards and the addition of new life members had money pouring into our treasury from all directions and in such quantities as to encourage reckless expenditures and many times we have on short notice and without proper consideration of the subject voted out immense sums of money for which the association did not receive adequate returns. Artists and committees felt there was sufficient money to pay bills and they did not hesitate to charge the highest prices for services and sometimes it seems there were a lot of expenses where there were no services at all. The older members who have dropped out of active association work for the past few years have

watched the seeming waste and finally becoming alarmed at the way we were drifting did not hesitate to utter a few words of caution to the boys and asked them to right about face and take a careful invoice of stock before going farther. As a money making proposition the financial statement as issued just prior to the annual convention proved conclusively that we were taking enormous risks. Work outlined was important and should not be stopped, but there must be some scheme worked out that would guarantee greater receipts.

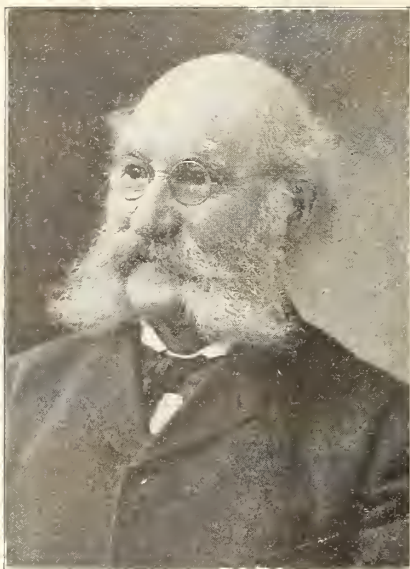
When the matter was called to the attention of the finance committee, we found they were not only willing but very anxious to have suggestions from the older members. As a result a conference was called and suggestions offered that we believe will immediately relieve the pressure and eventually put the association back onto a good financial footing. In doing this we have injured no one. Mr. Cooper's resolution calling for donations from the members to assist in emergency or war time work met with universal favor and more than \$1,400 was subscribed at the first meeting. The president was instructed to write a letter to the members asking for contributions to this fund, and it was recommended that if possible \$5,000 be secured in this way to carry on this work.

Now just a word of caution: When this letter is received by you, don't, please don't, assume for one moment that the American Poultry Association is bankrupt or that there is any danger

of its going out of business. The American Poultry Association is your best bet now, as it always has been, but we do need this money in order that important work that you as a breeder are personally interested in may not slow up, so please give to this fund as liberally as you can and you have my personal guarantee that every dollar will be judiciously expended.

Following are a few suggestions that were offered by the older members and recommended by the financial committee, which we feel will straighten everything out to the satisfaction of all.

Little by little we have taken from the poultry press and the individual members the revenue on the sale of Standards until it reached a point where it was not possible for them to longer push the sale of the book, the commission not being of sufficient importance to warrant the space taken in advertising. This was changed at the annual convention and the wholesale price of the Standard in lots of 12 or more to the members or publishers was reduced to \$1 per copy, the retail price to remain the same. This, of itself, will add to the revenue of the association at least five thousand dollars within the next 12 months and now that each and every member attending this convention knowing what the conditions were in regard to the new members for the past year and having it pointed out to him or her that their respective states were not furnishing the proper quota, they are going home to get down to work to increase this membership. The recommendation of the finance committee was that the initiation fee should be \$5 instead of \$10 and that all members joining under this provision should pay annual dues of \$3 per year after the first



PHILANDER WILLIAMS,
First president of American Poultry Association, in honor of whom 43rd annual convention was named.

year. The old system, the one that has been in force since the American Poultry Association was inaugurated, was a life membership fee of \$10 without any dues, and it is clearly evident to anyone who knows anything about finances that your only hope of continuing in business would be by securing new members, and should you fail to do this, you could only hope for bankruptcy, and this change has come, about at a mighty good time to prevent our association from running on the rocks. Every member of the judges' section and every local association can well afford to buy at least 12 copies of the Standard now, as it is a money maker for you.

Much interest and quite a little comment was caused by the new National War Emergency Poultry Federation. This new organization, endorsed by some of the brainiest men of the poultry fraternity, and men who have only one thought, that of doing the most good for all branches of the poultry culture, were very anxious that the American Poultry Association should join them and become a part of the new federation. The old members of the American Poultry Association, and especially those who represent the fancy, felt that the step was not a good one, that it might and possibly would eventually eliminate the old organization, and they did not feel that the new federation has had sufficient experience or sufficient prestige to warrant our coming in as a body.

This feature of the convention took up quite a bit of its time. Both sides were given an opportunity to present their views and best arguments, pro and con, so that our members may know just who was for and against the measure, but the final vote was 37 to 32 in favor of retaining our own independence and not becoming a member of the federation. The new federation, however, is going ahead and will do a lot of good work. Reese V. Hicks has been employed to represent it and headquarters have been opened in Washington, with Mr. Hicks in charge, and we know that in any matters that come up directly concerning the American Poultry Association Mr. Hicks will be just as free to render service and do all in his power to assist the members as tho he was not associated with the federation. It is well to understand at this time that practically everyone who is a member of the new federation is also a member of the American Poultry Association, and with the two organizations, both working for

the best interests of the fancy and commercial poultry culture, we should accomplish more than ever and we do not believe there will be any conflict between the two.

Under the system adopted at Cleveland, several departmentals all working with and as a part of the American Poultry Association, we have been able to do a lot of constructive work without interfering with the general line of procedure of the convention. As an illustration, the judges section, the baby chick section and the incubator and brooder sections are able to hold independent meetings where they can care for their own affairs, thrash out their own differences and bring in their reports to the general body, which are usually accepted without debate, as the members feel these men are better qualified to legislate on these subjects than the ordinary laymen who know practically nothing about the business that is very vital to these big interests.

In the judges section, the question of eliminating all disqualifications except natural defects was thrashed out by this body and at one time every member but three favored the resolution and asked that a committee of three be appointed to draw up and present to the convention a report on the valuation of such defects as are changed from disqualifications to defect so that judges might know just how to value them in making their awards. Mr. Delano was appointed chairman of the committee to revise this section, but at the afternoon meeting when called upon for the report, he had none to offer but made the statement that when the committee got together it found it could not go into the matter, as it was not at all practical. He said when we started to make one change we began to realize the necessity of making a lot of other changes in order to make all conform, and we consider it best that the matter should be dropped for the present. This was the report finally adopted by the judges section and there will be no changes in the present disqualifications until the next revision of the standard in 1923.

A petition was presented by H. V. Tormohlen, president of the American Brown Leghorn Club, asking that the Standard description of the dark female and light male be inserted, so that judges have correct information on these important classes when making their awards. This petition was endorsed by practically all prominent Brown (Continued on Page 798)



Members in attendance at 43rd annual convention of American Poultry Association, Lexington Hotel, Chicago, August 12 to 15, 1918.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

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TRADE MARK REGISTERED,
No. 74,059.

Issued the first of each month.

Published by

**American Poultry Journal
Publishing Co.**

JAS. W. BELL, President,
523 Plymouth Court, Chicago, Ill.

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Advertising Representative,
E. G. ALDRICH.

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State of Illinois, County of Cook, ss.:

Chas. S. Peterson, secretary of the Regan Printing House, Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 53,000 copies of the September, 1918, issue.

CHAS. S. PETERSON.

Subscribed and sworn to before me this
20th day of August, 1918.

(SEAL)

ALICE A. SHEHAN
Notary Public.

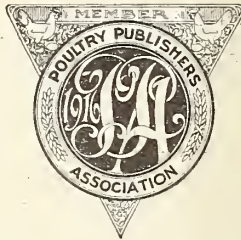
What is a Fancier?

What is a fancier? How does a fancier differ from a breeder, or either of these from the commercial poultryman?

There are some good friends of ours who are continually lauding the "fanciers" and speaking disparagingly about "commercial poultrymen." Some of them want the old American Poultry Association to be an exclusively fanciers' organization, run by and for fanciers only.

We confess we have yet to learn exactly what they mean by "a fancier"—have never yet had a clear cut definition of the term as they use it. The old American Poultry Association has been pretty much under the same control for years, there has been mighty little variation of the political machine for a long time.

Some of the men who claim to be dyed-in-the-wool fanciers do not own a chicken and have not bred nor exhibited poultry of their own breeding for many years. Some of them, by their own statement, have been more or less engaged from time to time in trading in poultry, buying and selling, for both market and breeding purposes. Some men who are generally conceded to be among our foremost fanciers are also decidedly "commercial" in the conduct of their poultry business, but in our opinion this does not necessarily make them any less real fanciers, provided they are fanciers. Some others who have gained recognition as master breeders of the utmost in quality in Standardbreds of the breed they favor, seldom or never advertise, exhibit little and chiefly for the pleasure of competition with other breeders, and give away almost as many hatching eggs and breeding specimens as they sell.



We think that it is an unfortunate mistake to attempt to draw too fine distinctions between classes of poultrymen or to stir up class prejudice. We are all poultrymen and all are or should be devoting a part of our energy to breeding better Standardbred poultry. Each and every one of us has much in common with and is dependent upon the others for the progress and successful conduct of our particular branch of the poultry business. This should be plain to all, except those of exceedingly narrow vision.

Any person who makes a business of dealing in poultry, whether for sale of exhibition and breeding stock, hatching eggs, baby chicks, market poultry and eggs, must of necessity be a "commercial poultryman" if he does business in hope or expectation of making a profit. At a recent meeting of poultrymen the question was raised as to "What is a producer under the law?" The officially recognized definition was that any person who actually produces and sells even one dozen eggs or a few chickens is a "producer" within the meaning of the law of the land, but he or she must in fact have produced or raised the goods sold. So any person who produces and sells poultry and eggs of any sort in the expectation of profiting thereby is a "commercial poultryman." But the term "fancier" is in its application so elastic and so broadly used that one is sometimes at a loss to know why some breeders of poultry may be of the elect, while others, equally devoted to the breeding and perpetuation of Standardbred fowls, are not considered as belonging within the inner circle.

To our mind any person who is a true lover of Standardbred poultry, who devotes a share of his

time to breeding poultry and painstakingly building up better quality fowls, and helping others to succeed in a like undertaking, working toward an ideal of perfection, is a fancier, whether or not he devotes himself to some commercial branch of the business from which he derives part or all of his living. We know men who certainly are fanciers, who have devoted much time and energy to furthering Standardbred poultry interests, yet who do not own any poultry. We know men who operate large egg farms or market poultry plants, who also breed and exhibit some of the finest Standardbreds seen in our big shows—are they not fanciers as well as “commercial poultrymen?” We know other men who have devoted a lifetime to breeding and perfecting a strain of Standardbred fowls, who are consistent winners of world-wide reputation, who advertise extensively and claim big incomes from their “fancy poultry business”—are they not commercial poultrymen as well as “fanciers?” We know breeders of purebred poultry who have devoted years of study and work to perfecting the breed of their choice, who seldom exhibit but sometimes give away or sell specimens which win ribbons—are not these men fanciers?

Is it not about time to bury the hatchet and to endeavor to eliminate friction? Nothing is gained by stirring up class feeling and factional fights. Get together and work together, “one for all and all for one,” in the common interest of more and better Standardbred poultry. What we need is harmony, unity and co-operation.

If we are breeding and boosting for Standardbred fowls, we are all *poultrymen*, and does it matter so much after all that we should be identified by the special but indefinite classification of fancier, breeder, commercial poultryman, or whatever term may apply?

However much we may quibble and evade the issue, our poultry interests are all common interests. We cannot separate and isolate them in little exclusive groups and get anywhere. Every human being on this planet has interests in common with every other human being, we are all to some degree dependent upon one another. We may be too blind to see it, but we cannot escape the fact. The sooner we get our blinders off and see the light, the better it will be for all of us.

Do It Yourself!

If you want anything done, *do it yourself!*

We are rapidly approaching a period in human events when such a course becomes absolutely essential. War needs are rapidly absorbing our man power, skilled labor is difficult to secure and the price is above the means of the average poultryman's purse.

Carpenters, painters, plumbers, blacksmiths, and other skilled mechanics are, or will be soon, in the army and navy or busy on government contracts. A good many towns are already without a resident physician. The mother of the household, as was the case in earlier times, must be both nurse and doctor in all but serious cases. It is decidedly “up to” us all to *keep well*.

There are many odd jobs and repairs about the poultry plant and farm, which when labor was cheaper and plentiful we used to turn over to local

mechanics, that we now must learn to do for ourselves. All the members of our family have always had the knack of taking hold of this sort of work, and, as the last seven years we have lived nearly four miles from the nearest town, we have not called in much outside labor for ordinary repairs.

A wealthy summer resident, who summers here but winters in New York City, called on us recently and had much to say about the labor situation. He said he wanted to get a pump and water supply system installed in his shore home, as his mother expected to be there the year round from now on, and he wanted a convenient, easily worked system which could not readily get out of order. He could not get a contractor to promise to do the job promptly, so he tackled it himself. “Do you know,” he said, “I've learned more about pumps, pipes and tools the past two weeks than I ever knew there was to learn.” He managed to do a very creditable job, and he was mighty proud of the fact.

A fellow townsman, who has always depended upon a village water supply, was without water most of last winter, because the privately controlled supply service broke down. He decided to put in a well of his own, but on consulting the well driver he found the price prohibitive. He is installing a good driven well for himself.

One of our foremost poultry fanciers has always kept a supply of paints and oils on hand and keeps his poultry buildings as bright with paint as a ship, doing the work a little at a time whenever convenient. He enjoys the work, too.

Painting jobs, glazing windows, odd carpenter repairs of all sorts, chimney cleaning, in fact any repair work about the farm can be attended to very satisfactorily by the home folks if the work is done before the job gets too big—just another case of the stitch in time that saves nine.

An extensive kit of tools is not absolutely necessary. A handy drill, vise and anvil combination is an essential piece of work-bench equipment. For carpenter's tools, a good hammer, shingling hatchet, ratchet brace and assorted bits, iron square, homemade miter box, Simonds combination saw, putty knife, set of chisels, glass cutter, ratchet screwdriver, one medium panel saw, one rip saw, draw shave, bench plane, nail set, two twelve-inch wood hand screws, sliding T bevel, spirit level, two-foot rule brass bound, 100-foot metal tape, combination hollow handle tool set, draw knife, dividers, wire cutter, chalk line and chalk, make a very useful assortment that will fill most farm needs. For odd plumbers' jobs and other mechanical work the following will be found necessary: large and medium monkey wrenches, large and medium Stilson wrenches, revolving spring punch, rivet set, assorted copper and iron rivets with burrs, assorted bolts, combination pliers, socket wrench set, tinner's snips, assorted files, pipe cutter of right size to take pipes in use on plant, screw plate set with taps and dies of size to take same pipes, soldering copper, stick solder and soldering paste, gasoline blow torch, driving cap for well pipe. A good combination grindstone and emery wheel, oil stone, and saw filing and setting outfit, are essentials, for every workman must learn to keep his tools in order.

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All we ask is, that in ordering the fowls or goods, you mention to the advertiser that you saw the ad in American Poultry Journal; also that the purchase be made during the month or months in which the ad is inserted, and in case of loss notify us of the fraudulent misrepresentation of the advertiser, giving us full particulars as soon as it occurs. In all cases in writing to advertisers say, "I saw your ad in American Poultry Journal."

bar and both round and wedge point crowbars, a post hole digger and a combination fence stretcher are essentials we cannot get along without. We have accumulated our outfit of small tools gradually and add to them from time to time as replacement becomes necessary or we find something we particularly need. The country auction is a fine place to pick up essential equipment of this sort, if you don't let yourself get carried away with the auction fever.

There is an old saying that "you never know what you can do until you try," and this is particularly true about doing

little things and odd jobs for oneself that in more easy times it was customary to hire somebody else to do. It will pay every poultry keeper to think twice before hiring expensive skilled labor in these war times: "Can I afford to hire this done? Perhaps I can do it just as well myself, and save a good big day's pay."

Get into the game. If you want anything done, do it yourself.

Make the Best of It.

CHEER up! Don't waste too much time on complaints and don't whine! Make the best of things as they are and work for better things.

One of our good friends, with an independent income and unused to work except as he felt like it for recreation, is complaining bitterly because the war has developed conditions which will make him change his habits of life a bit—he is well beyond draft age. Really he hasn't been touched yet except in a small way thru the "pocket nerve" and thru the need of doing things for himself because he can't hire as readily as he used to.

According to the press reports, Bernard Baruch, chairman of the War Industries Board, says: "The United States must prepare for deprivations. Up to this time, no man or woman has lacked for anything because of war conditions. It will be otherwise in the future. * * *

"We are living today in a highly organized state of socialism. The state is all; the individual is of importance only as he contributes to the welfare of the state. His property is his only as the state does not need it. He must hold his life and his possessions at the call of the state.

"Civilian requirements and the non-essential industries must yield to the needs of military establishment. There is but one important thing before us: To win the war.

"I should not hesitate to take anything anyone might have for his own advantage if the taking would benefit the whole of society and help win the war. Every man's life is at the call of the nation and so must be every man's property."

We believe that the above is correctly reported and it certainly sets plainly before the people how we must get in the war. Mistakes will be made. Seeming injustice will occur. But we may look and hope for readjustment on a safe and sane basis.

Poultrymen and some other food producers appear to have suffered unduly from what has seemed unfair discrimination in favor of the consumer. Most of us have taken our medicine and tried to grin, even tho we saw everything we possessed slipping away from us, while apparently more fortunate individuals were profiting unduly. Lack of efficient organization has prevented poultrymen from getting what they believe to be their just due, and some individuals

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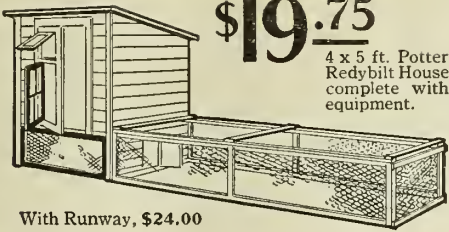


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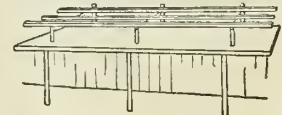
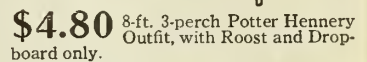
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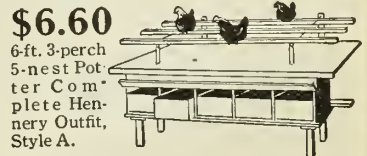
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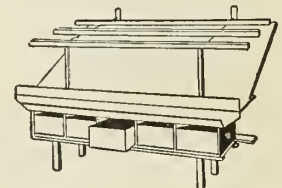
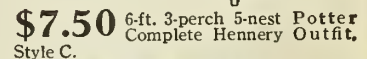
\$3.50 5-box Potter Portable Nesting System.

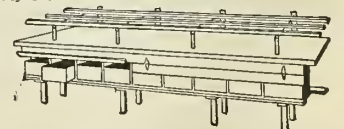
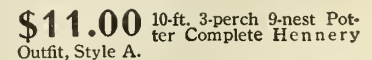
\$4.80 8-ft. 3-perch Potter Henhery Outfit, with Roost and Drop-board only.



\$6.60 6-ft. 3-perch 5-nest Potter Complete Henhery Outfit, Style A.

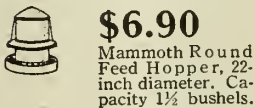
\$7.50 6-ft. 3-perch 5-nest Potter Complete Henhery Outfit, Style C.

\$11.00 10-ft. 3-perch 9-nest Potter Complete Henhery Outfit, Style A.



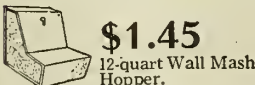
\$3.60
24-inch All-Metal Wall Feed Hopper, 6 compartments.



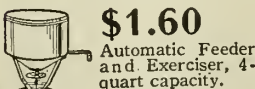
\$6.90
Mammoth Round Feed Hopper, 22-inch diameter, Capacity 1½ bushels.



55c
2-piece Galvanized Bottom-Filled Fountain.



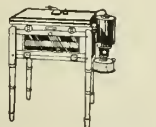
\$1.45
12-quart Wall Mash Hopper.



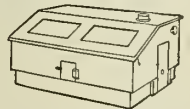
\$1.60
Automatic Feeder and Exerciser, 4-quart capacity.



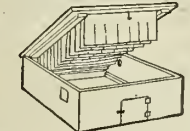
\$8.90
All-Metal Oil-burning Round Brooder, 60-chick size.



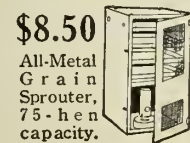
\$11.75 60-egg Ideal Incubator, Wood Case, Hot Water Heated.



\$9.25 100-Chick Brooder, indoor or outdoor.



\$2.75 60-Chick Fireless Brooder.



\$8.50 All-Metal Grain Sprouter, 75-hen capacity.



First Prize Cook at Madison Square Garden, December, 1916

“Regal” Summer Sale

Have you received a copy of my summer sale lists? If not, send for one and look it over. This year I am offering over 1,000 of my breeders at bargain prices. To those who purchase this month, I am making a special offer. Regal White Wyandottes are famed the world over for both exhibition and utility qualities.

Eggs from best matings
\$3.00 per 15, \$5.50 per 30.

JOHN S. MARTIN
Box 51, PORT DOVER, ONT., CANADA

CAPON WHY NOT CAPON

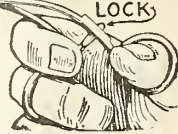
Why not start right with right tools, instructions and money back guaranteed, that will prevent loss, discouragement and failure? There are only three makes on the market. My instruments stand absolutely alone in workmanship, design, convenience and results. Read the following letter (have hundreds similar), ponder and act wisely. Capons are best behaved, growing, fattening table poultry in the world, easily within the reach of everyone.

“Enclosed find \$3.50 for your Unobstructed Vision Remover. Have the and sets and am disgusted with both. The first produces slips and latter working in shadow of the hand. (Signed) DOUGLAS W. JARVIS

Just the time to do your late cockerels. Order direct from this ad. Full directions, sent promptly. Charges prepaid, Duty free. Full set \$5.00, Removers alone \$3.50. Add 10c to personal cheques. Order today, or send 6 cents in stamps for treatise on housing, feeding and castrating.

S. K. BURDIN, Suite 16, 104 STIBBARD AVE., TORONTO, ONT.

UNOBSTRUCTED VISION
PATD 1916



have gone broke. We believe that eventually the poultrymen and other food producers will come into their own, for our President has stated positively that they should have and are entitled to a fair and just profit—in other words, a living wage for their useful and necessary work. But it is essential that poultrymen present their case in an effective manner and show by indisputable proof that they are not getting fair and just consideration. Something must be done for the producer. It is all very well to try to keep prices down to the consumer, but this should not be done at the expense and heavy loss of the producer. We believe that the National War Emergency Poultry Federation is going to help bring about due consideration for the producer. President Reese V. Hicks is established in an office at Washington for the purpose of presenting the poultry producers' case. He is well qualified to present and discuss poultry producers' problems and, if he is free to act without being unduly hampered, we believe he will accomplish much good for poultrymen generally. He certainly knows what the breeder specialists and practical poultry keepers are up against. He will need the help and support of every poultryman, big and little.

The poultry situation is not unlike the position the milk producers were in at the beginning of the war. The milk producers, thru their efficient organization, are only beginning to get simple justice. In editorial discussion of the Chicago milk situation, *Wallaces' Farmer* says:

“All the evidence, in our opinion, points to the fact that the Chicago milk producers are now, for the first time in many months, getting a square deal—no more, no less. The entire Chicago situation has been a clear illustration of the necessity for farmers playing the price game as typical business men. There is no other way of meeting the blind, heartless city forces at work. Of course, in the long run it may be worth while to educate the city people as to the items which enter into cost of production.”

That will apply with equal force to the poultry situation. The general pub-

\$450 FORD CAR GIVEN



FIRST GRAND PRIZE

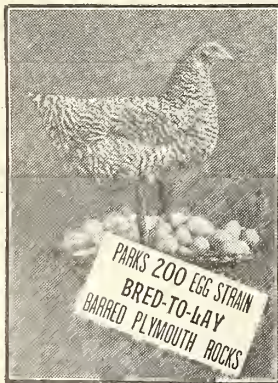
The jumbled letters in the circle can be arranged to spell out two certain words of four letters each. Can you do it? Write the words plainly on post card and mail to us with your name and address at once. If correct, we will enter you immediately in our big Ford Auto Contest with 1,000 points to your credit and explain everything fully. Send no money. The winner in our big contest will be given a Ford Car. Many other prizes.



FARM LIFE Dept. — 39 Spencer, Ind.

BUFF ROCKS WON EVERY FIRST PRIZE OFFERED at Kansas City Show. Pronounced by Judge Drenstedt best class he ever saw. First prize winners at Madison Sq. Garden, N. Y.; Palace, Chicago; Kansas City; World's Fair. Two pullets at Mountain Grove laid 229 and 201 eggs each. Get my catalog. C. R. BAKER, Box A, Abilene, Kas.

3 years—36 issues—of American Poultry Journal for \$1



PARKS 200 EGG STRAIN
BRED-TO-LAY
BARRED PLYMOUTH ROCKS

1889 ← → 1918
29 Years of Trapnesting

FACTS Must Be Looked in the Face Without Flinching.

Our boys are “over there” in the midst of the greatest and most cruel battle the world has ever known. They are performing their task in a manner that brings a glow of pride to every American. Thousands of them will be wounded, and the experience of our allies has been that fresh eggs are one of the prime necessities in the hospitals.

Are You Doing Your Share?

Are you producing all the eggs you can, in the most economical manner? There is no profit or patriotism in feeding good grain to an unproductive bird.

Edward Brown, one of the world's greatest authorities on poultry subjects, says: “Breed from the high normal layers in your flock, and not the phenomenal layers.” That's the kind Parks' Strain is—High normal layers. They prove it everywhere, in the hands of my customers and in the laying contests.

Parks' Bred-to-Lay Barred Plymouth Rocks

are the answer if you are looking for “Money in Poultry.” Twenty-nine years of careful trapnesting and pedigreeing have made them what they are—the world's greatest high normal layers.

Catalog giving history of strain, and valuable information, a dime. Surplus Stock Circular Free.

J. W. PARKS

Box J

ALTOONA, PA.

lic has made it manifest that it knows little and cares less about poultrymen's problems, and it does not care how many poultrymen go bankrupt so long as the prices of eggs and poultry can be kept down.

It does not help win the war to compel producers to produce poultry and eggs at a loss or get out of the business into some other line of work. We are producers of necessary foods—foods much needed to win the war—and sooner or later a readjustment is coming when the consumer will have to pay cost of production plus a living wage for the producer. Efficient co-operative organization will help bring about this readjustment.

One is bound to admire and respect the attitude of most poultrymen under the discouraging conditions since we entered the war. Complaints have been few and mainly made in an effort to secure fair and just consideration. Some men who have been forced out of business have quietly made a new adjustment of their affairs and engaged in other work for a living. Others have tried to take their losses cheerfully and are still doing their utmost to carry on. There are mighty few lines of business that would have been so persistently carried on under such conditions of loss and discouragement. It has not been pleasant to see other lines of business apparently making big profits out of the poultryman's misfortune. The reports of profiteering on the part of big business, made by the federal trade commission, particularly when alleged profiteering in feeds has made it so difficult for poultrymen to carry on, have brought the injustice of the situation more forcibly home to poultry keepers. But with the publicity which is now being given to investigation findings, the apparent intention of our government to clean up the whole situation, we may hope for better times soon.

There are better times coming, tho we are not yet to have it all fair weather and plain sailing for a little while. Whatever may be in store for us, we must cheer up and make the best of it. Poultrymen will continue to carry on and patriotically do their utmost.

Buy Now!

Now is the time to buy breeding and laying stock to carry thru the winter. Transportation conditions, tho poor enough, are better this fall season than they are likely to be in the winter and spring.

Breeding stock, or yearlings and pullets for layers, if purchased now for immediate delivery can be secured at bargain prices. Where it is possible to secure delivery of new stock before cold weather, results are usually more satisfactory all around. It pays to buy what you need in the fall and house the birds where you can winter them comfortably. For laying stock it is essential. For breeding stock, we believe better results can be secured from fall purchases—other things being equal and the birds properly housed and cared for—than from stock that is subjected to trying transportation conditions and a change to new quarters and new conditions just prior to the time when needed for breeding.

This is also a good time to stock up with supplies, equipment and feeds needed for winter and early spring use.

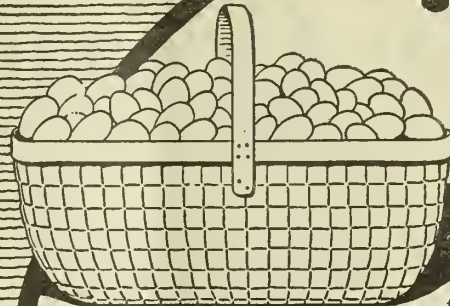
When the early spring rush season is on, delays are frequent and vexing. The thrifty will make their purchases now, save money and save time, as well as avoid disappointment.

Smith's White Leghorns

More first prizes at Chicago and St. Louis shows than any other strain! Birds that will win for you or birds that will improve utility qualities. Catalog sent free upon request. Eugene C. Smith, 317 Galena Blvd., Aurora, Illinois

More Eggs-

OR YOUR MONEY BACK



This is a mighty strong statement, but Laymore is such a wonderful laying tonic, that I absolutely guarantee to refund your money if it

does not increase the laying capacity of your hens. Thousands of successful poultry raisers are now making bigger poultry profits by feeding

Laymore

"Makes Your Lazy Hens Lay"

This wonderful new discovery is a scientific preparation that makes your hens lay when eggs are high priced. It supplies the natural diet that hens easily get in the spring and summer, when they are laying their best. Give them Laymore when they can't get this natural diet and you will double your poultry profits. Laymore hurries your flock through the moult, starts them laying quickly and keeps them laying practically all the year round.

VALUABLE POULTRY BOOK FREE

The "Tale of a Lazy Hen" is the title of a new book by Mr. P. J. Kelly, which gives valuable information on the profitable raising of poultry. Any reader of this paper will receive a copy of this new book absolutely free if you simply mail the coupon.

Buy "Laymore" From Your Druggist

Practically all drug stores carry Laymore, as well as all the other famous Kelly Poultry Remedies. If your druggist doesn't carry Laymore a full sized package will be sent you on receipt of \$1.00. Be sure to mail the coupon and get your FREE copy of the valuable new poultry book at once.

P. J. KELLY

"Minnesota's Poultry Expert"

144 Kelly Bldg., Minneapolis, Minn.



MAIL THIS COUPON

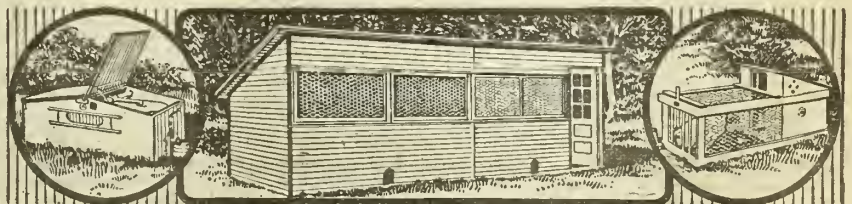
P. J. KELLY,
144 Kelly Bldg., Minneapolis, Minn.

Dear Sir:—Please send me your Free Book, "The Tale of a Lazy Hen".

Name.....

Town.....

State..... R.F.D.....



Brooder for 50 to 100 chicks

No. 3 Poultry House for 60 hens—2 units

Setting Coop

STRONG, healthy chicks are the reasons for Hodgson Poultry Houses. If it's the brooder, the laying house or the sectional unit, each one is built with a thorough knowledge of requirements. They are scientifically designed, well ventilated, sanitary and storm-proof. The best materials enter into their construction.

Buy the Hodgson way; it's the easiest. Send for a

catalog today, let us know the kind of brooder or poultry house you want and we will ship it to you in neatly finished and painted sections. The assembling can easily be done by an unskilled workman in a couple of hours. First send for the catalog. E. F. HODGSON CO., Room 323, 71-73 Federal Street, Boston, Mass. 6 East 39th Street, New York City

HODGSON PORTABLE HOUSES

WALHALLA



Buff Orpingtons

Buff Minorcas

The Strains of Quality


Ocean-to-Ocean

Walhalla Strains blood lines being demanded because NOTHING BUT THE BEST has been the thought uppermost in the mind of the management of Walhalla Poultry Farm in building up its flock of BUFF ORPINGTONS and BUFF MINORCAS. In selecting our foundation stock we purchased in both varieties the BEST PRODUCTIVE STRAINS and known producing ability in this country. In Buff Orpingtons we have added Rawnsley-Shields and in Buff Minorcas the Lindgren Strain to our flocks. Look up the records of both these strains and you will be convinced.

Do You Need Show Birds? Guaranteed Winners?

We have them better than ever this year, ripe and ready to step in any showroom and win for you the prizes you have long striven for. Our guarantee-to-win plan will explain what guaranteed winners mean to you. Reserve your winners early and be assured of success at your next show. If you want the best producing blood lines of the two breeds, either young or adult stock, don't fail to write us immediately for our Fall Sale List.

WALHALLA POULTRY FARM EDWARD F. SCHMIDT, Mgr. OSCODA, MICH.



\$1²⁵ to \$1.50

8-Week Old Pullets

S. C. White Leghorns, R. I. Reds, White Wyandottes, Barred Rocks and Orpingtons.

They Are Sunnyside Pedigreed Trapnested Birds

from 200-249 egg record stock, and will be laying this winter when eggs are high and worth getting. The many years of breeding for egg production back of these pullets are a guarantee that you will receive an overflowing measure of value when you buy them.

Year-Old Breeders Barred and White Rocks, Brown and White Leghorns, White Wyandottes, Reds, from trapnested stock, with records of

180 to 200 eggs, each .....\$3.00	210 to 249 eggs, each .....\$4.00
-----------------------------------	-----------------------------------

Grand Cocks and Cockerels out of Record dams, 16-week-old Pullets at \$2 and \$3 each. 100 Yearling White Wyandottes, Pedigreed Stock "State Tested" at \$3 each for lots, with Pedigrees.

Order direct from this ad, or send for catalog.

SUNNYSIDE POULTRY FARM R. C. Blodgett, Prop. Box 1002 BRISTOL, VT.

Wise advertisers are reaching out for fall business and are offering genuine bargains to forehanded buyers. Watch the advertising columns closely for good opportunities to purchase what you need during September, October and early November.

Do your buying early and secure prompt fall delivery.

Help the Poultry Shows.

IN A pamphlet discussing "The Agricultural Situation for 1918" the U. S. Department of Agriculture says, concerning the poultry shows:

"The continuance of poultry exhibitions, maintained almost wholly by the poultry specialist, is certainly justified during the present emergency.

"The poultry shows themselves afford an opportunity for interesting individuals in poultry keeping, and have served as effective centers from which to launch and extend the campaign for increasing poultry production."

Uncle Sam is backing the poultry shows, thru special exhibits at the big shows by the Animal Husbandry Division of the U. S. Department of Agriculture, by detail work of extension service agents at shows big and little, and thru Girls' and Boys' Poultry Club exhibits at local poultry shows and fall fairs.

The poultry shows need the help and patronage of everyone interested in Standardbred poultry. The shows increase interest in poultry and create a big army of beginners in poultry work. Everybody should be a "booster" for the poultry shows. Are you doing your bit?

As we really begin to get in the war it becomes more and more apparent that we are going to be called upon to depend very largely for our surplus of poultry and eggs, with which to supply the general public, upon the small flocks whether on the farm or the town back lot. Under war conditions only a comparatively few specialists can carry large flocks. The extension in both directions of the draft age limit is certain to make a further drain upon the ranks of food producers. Already many poultrymen are with the colors—nearly 26 percent of the first draft was drawn from those engaged in some branch of agriculture—and many more are bound to be included in the great man-power machine which is essential to our ultimate victory over the Huns. We must reach out and interest more people in poultry keeping, bring more boys and girls into the ranks of the breeders of Standardbred fowl, and the well conducted poultry show—aided by the poultry press—is the place to begin the campaign, the center from which it may be successfully extended in all directions.

In answering the question: "Is the poultry show essential?" Uncle Sam's Animal Husbandry Division says:

"If poultry production is to be increased or even generally maintained, poultry shows must be continued, multi-

Homestead Campines

The word that dominates in the world of

and the birds we bred this year are the finest flock we ever raised. These beautiful Silver Campines will gladden the heart of any poultry lover. Let us know your wants. Our handsome catalog, giving full description and history of this remarkable breed, sent on receipt of 15 cents.

HOMESTEAD CAMPINE FARM Box A WAYLAND, MASS.

THE VIGOROUS STRAIN Exhibition Stock

Now ready for the fall and winter shows. Our winnings at the leading shows, such as Madison Square Garden, Boston, and New York State Fair, prove that we have the foundation, and we know your wants. Our handsome catalog, giving full description and history of this remarkable breed, sent on receipt of 15 cents.

Box A WAYLAND, MASS.

Myers' Barred Plymouth Rocks

Single Birds, Trios or Breeding Pens. Hatching Eggs. Write for catalog and mating list.
C. N. MYERS Box A HANOVER, PA.

My \$5 and \$10 Eggs
For \$3 per 15

From all pens as they run.
Middlemarch Champion **Buff Orpingtons**
Jessie F. Gordon Box 535 Spring Valley, Minn.

Lady Beautiful Strain
Consistent winners for years
at the big shows.

LICECIL

The Poultry Lice Exterminator

Merely bang a bottle near the roosts. The gas kills the lice and mites—no injury to the birds. Price—delivered—One bottle, 75c. Three bottles, \$2. Order today. Address nearest office. Circular free.

Box 35 LICECIL MFG CO. Box 35
Germantown, Phila., Penna. Quincy, Illinois

POORMAN'S 200 EGG STRAINS

THE
WORLD'S
BEST
LAYERS

REAL LAYERS

TRAP-
NESTED
200 EGG
STRAIN

STOCK
EGGS



BABY
CHICKS

White and Barred
Plymouth Rocks
Rose and Single Comb Reds

LADY ALFARATA BUSY BESS
Record 301 Eggs Record 285 Eggs

White and Buff Orpingtons
S. C. White Leghorns
White Wyandottes

Poorman has spent 19 years producing profitable layers, and knows how. The performances of his stock in the hands of more than 8000 customers prove this.

RESULTS

Cincinnati, O., Jan. 30, 1918.
Mr. John G. Poorman,
Tinley Park, Ill.

Dear Sir:

Enclosed please find Money Order (\$30.00) for a White Rock cockerel for your special mating. Kindly give me some information as to his ancestry, as I intend to breed him to some extra heavy laying hens. These hens were raised from chicks purchased from you in 1915 and 1916. Have trapnested them and some of the records are 280, 242, 216, 201, 200—not from the date of their first egg, but from November 1st to November 1st, same as the official laying contests.

Please ship as soon as possible via American Express to Elmwood Place, to be marked, "Will be called for."
J. J. H.



Special Pair Mating—S. C. Reds

RESULTS

Grosse Ile, Mich., Feb. 5, '18
John G. Poorman,
Tinley Park, Ill.

Dear Sir:

Enclosed find my check for \$15.00 for which, with my credit of \$10.00, kindly book my order for 50 Class A day-old chicks.

If possible, I would like to receive this shipment by American Express not later than the 15th of April.

This sure has been tough laying weather for the last sixty days, but you may be surprised to learn that the Poorman Orpingtons have been hugging the 50 percent mark for December and January and have outlaid some White Leghorns which I had given to me last year.

With best regards for the season's success, I am

Very truly yours,
N. A. P.

Buy Your Foundation Stock Now

My catalog contains descriptions of my plant by representatives of the leading poultry publications, reports of many of my customers, and also my methods of breeding, care and management. It is fully illustrated and very instructive, and will prove to you that my prices are very reasonable.

The individual prices of my breeding and laying stock have not been advanced. A male bird today will cost you no more than it would two or three years ago—a better bird at the same price.

Liberty Bonds Acceptable

*Start right, by writing for my instructive catalog today.
It has helped others, and it will undoubtedly help you.*

JOHN G. POORMAN, Box 100, TINLEY PARK, ILLINOIS, U. S. A.

**White Leghorns
White Wyandottes
AND
Rhode Island Reds**

FROM

**Bertley Farms
Glenwood, Illinois**

Best Quality, Wonderful Producers



If you want the best; selected from the finest bred young stock of these famous breeds we can furnish them; you can't get better. Pullets and Cockerels from \$3 up, each.

Selected yearling hens (a few only) good layers—\$2.50, \$3 and \$4 each.

When you buy Bertley Farm fowls you get the results of expert selection, careful breeding for results, great care in rearing, good management, scientific methods, modern equipment and no sparing of money to produce the best.

Bertley Farm produces chickens that for looks, for health, for productiveness, are the best that money can buy.

We have 4000 fowls; all select stock, no culls; we can give you *just what you want*.

Address BERTLEY FARMS, Glenwood, Ill.

plied and improved. To discontinue them is to deprive the other agencies for reaching the public and attracting its attention of a considerable part of their efficiency. War conditions and the necessity for increased production to meet wartime demands cannot wait on experimental readjustments of factors which have grown into certain relations. Improvement and greater efficiency must be along the lines of experience and within the limits it indicates as safe.

"War conditions make it necessary to plan and conduct shows so that they will make less than the ordinary demands upon transportation facilities—to help



First cockerel at Madison Square Garden, 1916. Also first cock at same show, 1918. Owned by Floyd P. Schuyler, Dark Cornish Specialist, Savanna, Ill.

and not to handicap other war agencies. In considering the effects of war conditions upon American poultry shows, the fact that stands out most prominently is that the uncertainties of transportation tend to limit the area from which a show can draw exhibits. When such a condition comes as a sudden emergency, there is justification for asking preferential treatment for shipments of exhibits; but, when it is known long in advance that the obstruction to shipment will probably exist, patriotism should lead show managers to endeavor to fill



HUNDREDS OF

Aldrich White Orpingtons

are now ready for the early shows and hundreds of others are rapidly maturing for the later shows. Beginning September first and continuing until November first we offer several hundred of our highest quality birds at

Special Reduced Prices

to those who book their orders in advance. Our young stock this season is better than ever before, and with our greatly reduced expenses we are in a position to furnish you America's best **White Orpingtons** at prices that will surprise you. Beautifully illustrated catalog free.

Aldrich Poultry Farm, Station B, Columbus, O.

CARBO STEEL POSTS

UNIT SYSTEM cheapest, most durable, sanitary poultry fences.



STRONG LIGHT, SPRINGY STEEL

Bolt together for rigid corner, gate or end posts. Use units singly for line posts or Carbo Drive Posts. First cost of post less than wood. Made any height. *Write for Booklet Today.*

CARBO STEEL POST CO.
Department C CHICAGO HEIGHTS, ILL.

The Quality Barred Rocks of the Northwest

Have Won This Season

at North Dakota Fair, 1-2 Cock, 1-2 Hen

Best Male Bird at Rochester, Minn.

500—Classy Cockerels and Pullets for Sale—500

If *Quality* is what you want, don't go any farther. They are off in the lead, and will stay there. The uniformity of these birds is remarkable, proving that they breed true. If you want to introduce new blood into your flock, this is your opportunity to do so at reasonable prices. Our birds have always been bred with an eye for their laying ability, which is combined in a profitable degree with their show qualities.

Send today for my catalog

M. E. THOMSON

DEPT. A

AUSTIN, MINN.

their classes with nearby exhibits and exhibitors to patronize nearby shows."

Just read that over again. "If poultry production is to be increased or even generally maintained, poultry shows must be continued, multiplied and improved." That puts it squarely up to fancier-breeders, poultry associations, show managers, and the poultry press generally, to boost for the poultry shows and to encourage more and better exhibitions. Heed the statement made concerning transportation, but don't call off your show. Uncle Sam is boosting the poultry shows because he believes—as we do—that they are an important educational factor and essential in encouraging the production of more and better poultry. He wants you to be a booster for the poultry shows—and there should be no "slackers" here.

**DR. WOODS' NOTES
AND COMMENT**

September Days.

O sweet September, thy first breezes bring
The dry leaf's rustle and the squirrel's
laughter,
The cool fresh air whence health and vigor
spring
And promise of exceeding joy hereafter.
—George Arnold.

* * *

Summer is almost over. We haven't had very much real summer weather either. Wonder if this is another of those sudden "shortages" chargeable to "war conditions?" We should get a good Indian summer, and that is one of the pleasantest seasons of the year.

* * *

Early pullets should go into winter quarters soon. They must be comfortably housed, without crowding, should have plenty of yard room at first, abundant greens and liberal feeding. In deciding on pullets and yearlings to keep over winter, give space only to sound, vigorous, healthy specimens.

* * *

It takes heavy feeding to get the most out of pullets kept for egg production. Well matured specimens should be laying soon, and if kept for egg production they should be pushed for a good yield. Encourage them to eat plenty of a good concentrated mash mixture. The demand for eggs is increasing, adult fowls

**MAKE EVERY LAYER
A WINTER PAYER**

Blatchford's

"BAR-NUN"
LAYING MASH



solves the high price problem

It gives you more food value and quality for your money, with higher analysis than any other mash

Contains no cheap by-products or refuse from the manufacture of breakfast or cereal foods, or from scratch feeds.

Promotes vigor, health and egg production

It will pay you to investigate

ANALYSIS	
Protein,	20%
Fat,	5%
Fiber,	8%
Carbohydrates,	48%

Ask your local feed dealer, or write for instructive circular to the originators:

BLATCHFORD CALF MEAL COMPANY, Dept. A I

Established at Leicester, England, in 1800

WAUKEGAN :: ILLINOIS

Sabrina Farm White Wyandottes

Fine Early Hatched Cockerels

from

Owen Farms Best Matings

Large, vigorous, range-grown birds fit to win in any show in the country. Ready for shipment now. Order early and get the best. A few good cocks and hens from Owen Farms breeding pens still left and can be purchased at half price.

ARTHUR H. SHAW, Prop. Office at 502 Grove Street **WELLESLEY, MASS.**

**Premier Partridge Wyandottes
DISTINCTIVELY INDIVIDUAL and Rouen Ducks**

Winners at America's leading Shows. Choice breeding and exhibition stock for sale at all times. Write for prices. Rufus Red Belgian Hares of quality.

SHEFFIELD FARM H. B. HARK, Mgr. GLENDALE, OHIO

MINORCAS Giant Single Comb BLACKS

A fine lot of young birds now ready for the early shows. A few exhibition cocks and hens.

One lot of utility at \$3.00 each

JOHN L. BROWN 1515 W. 7th Street ANDERSON, IND

Thomson's S. C. Rhode Island Reds

Are fitting representatives of the grand old breed that has stood the test of time

500 Cockerels and a Few Hens and Pullets for Sale

Birds of type, color and quality, the result of careful selection and scientific breeding. The best blood in the country was secured as the foundation of our flock, and constant improvement has been our watchword. Birds fit to win at any show, coupled with heavy egg-laying ability, are what we offer you at "live and let live" prices.

GERLD THOMSON

DEPT. A

AUSTIN, MINN.

OWEN FARMS

**S. C. R. I. Reds
Buff Orpingtons
White Ply. Rocks
& S. C. W. Leghorns**
Are helping win the war

Carefully line-bred for generation after generation for egg production, perfect health and vigor, high vitality and unequalled Standard requirements. They "live, grow, lay and pay" all over the continent better than any other strain in existence.

My usual fine exhibit will be at the Great New York State Fair this month. Those of you who go to Syracuse will realize the magnificent uniform Standard qualities in my flocks.

The unequalled records of my birds at Madison Square Garden, New York, Boston, Chicago, New York Palace, Syracuse, Minneapolis and many other leading shows north and south are given in full in my printed matter—that is yours for the asking.

LIBERTY BONDS and WAR SAVINGS STAMPS are accepted in payment for birds or eggs for hatching. You can make your money help win this war and then secure the fine birds you need. Owen Farms is running full capacity and the fine flocks here are available to help you add to the much needed poultry products of the country. You can help Uncle Sam in the next Liberty Loan drive and then use your bonds to procure your poultry needs. Book your orders in advance for future delivery.

1918 Youngsters

are far and away the most promising ever on Owen Farms. Big, sturdy, early hatched birds for early breeding and early shows. Strong, healthy April and May hatched birds for the later shows and fine June chicks for the very late shows.

Write me fully and frankly your exact requirements and if you will tell me the amount you wish to invest, it will enable me to give you my best advice and exactly describe what I can send you.

Adult Birds

Have choice cocks and hens for showing and breeding. Not as many as in former years, but better in quality and lower in price for any given quality. The exact bird, or birds, you need are here for you when you need them.

Owen Farms Service

It has always given me great pleasure to have prospective customers write me complete data regarding their requirements, and ask for my advice. Have gladly given them the results of my many years experience and helped to make their investment profitable.

Every inquiry will have my personal attention and every order will be selected for you by either Mr. Davey or the writer. Our long experience is at your service.

OWEN FARMS

Office at 107 William St.
Vineyard Haven, Mass.

Maurice F. Delano
Proprietor

Frank H. Davey
Superintendent


are letting up on egg yield, and pullets should be made to do their utmost.

* * *


Our chickens have been grown on green range, with liberal allowance of oats, corn and mash. The cockerels are in fine shape and we have been having some wonderful fries and roasters. The pullets are shipping up in fine style and are full of promise. Yearlings on woodland range are beginning to get new plumage and should be well equipped with new suits of winter clothes before cold weather. We have no prejudice against early molters, provided the birds are properly molted and are in good order.

Altho, if our labor is counted—we have no farm help and have not had since April—we are not breaking even with expenses, we are carrying on to the best of our ability and marketing a considerable amount of foodstuffs which are surplus above family needs and we shall go into winter quarters with a fair amount of stock. We have had frequent feed famines due to local shortages and transportation difficulties, but unless conditions grow considerably worse we do not expect to cut down our live stock beyond present limits. We are carrying about 75 head of yearlings, nearly equally divided between White Rocks and Black Langshans, and will have about 50 early pullets and some 30 cockerels—most of the latter to be utilized as family food supply. Two fine Duroc-Berkshire pigs, a barrow and sow, are making wonderful growth and should give us a good supply of pork and a breeding gilt. Two excellent grade Guernsey cows are holding to a fine milk yield, in spite of drouth-killed pasturage, and we have a promising heifer calf from one of them and a newly arrived bull from the other. This promising male will probably be made into "baby beef." Corn has done fairly well and may mature a fair crop if frosts hold off long enough, but in any event will supply a good amount of fodder. A field sowed to Sudan grass did not come up to expectations, partly because of poor seed and partly because of unfavorable weather conditions, but it has been utilized as green fodder—weeds and all—and has worked out better than expected. Potato crop is fine in both yield and quality. The potato patch was planted early enough to require careful guarding during the severe freeze on the first day of summer, when the plants were all in blossom, but it has proved that we did a good job staying up all night to keep the bonfires burning. Most folks about here lost their early potatoes and the middle and late crops were stricken with blight and lice. We didn't get an opportunity to give the beans a third cultivation and we expected trouble from the weeds which flourished in this part of the garden, but the weeds proved a big protection during the dry weather and later cold wet spell, with the result that we did not have any rust or blight and we did not have any trouble from plant lice which infested

TEETH AND TONIC FOR HENS



PEARL GRIT the "Double Purpose Grit" keeps hens healthy and makes them lay. It grinds and prepares the food for digestion and supplies the necessary shell-making and egg-building elements. Write for free booklet. **THE OHIO MARBLE CO.**
74 Cleveland St. Plaquemine, Ohio



-the beginning of greater egg production!


—is when a poultry breeder realizes that the *whole* hen and the *whole* egg must be fed—the nerve tissues of the hen: her muscle, her bone—all of her—and the shell, the yolk, the white of the egg must be contained in the poultry feed so that it can be assimilated by the hen and rebuilt into the egg itself.

Common Sense
Scratch Feed and Egg Mash

—are guaranteed to feed the whole hen and the whole egg. They are balanced rations—and have proved out in the hands of thousands of experienced poultry breeders.

Write for samples and prices, and remember that our Baby Chick and Developing Feed is guaranteed in writing just as our other feeds are.

The FAMABELLA COMPANY, Inc.
Dept. 4
1107 Grand River Ave.
Detroit, Michigan



Uncomfortable

Hens Never Lay	
One Size 3 Ounce 50 Cts.	<p style="text-align: center;"><small>Monsieur From Lice</small> LAY BETTER</p>

Joram's Lice Rid
Keeps Them Comfortable.
Directions on every can

THIS STUFF WORKS!

What poultry keeper can say that his flock is free from lice? These abominable vermin take all the pleasure and profit out of poultry keeping—they make the hen uncomfortable and mope—they kill the chicks—they even kill the grown hens. It has been said by an authority that lice are responsible for more dead birds than any other enemy of poultry.

JORAM'S LICE RID KILLS THE LICE

It is a remedy for lice that never fails to work. It kills lice, and it prevents lice from getting onto the birds afterwards. **JORAM'S LICE RID** will kill **HEAD LICE** on CHICKS.

EASILY APPLIED

JORAM'S LICE RID is not like the other lice killers on the market—you KNOW they don't work—but JORAM'S goes after them in a "DIFFERENT" way. Vermin have a "base" of operations, just like submarines. You apply JORAM'S to the "base"—and the lice never move from there. That's where they die.

JORAM'S LICE RID IS ABSOLUTELY GUARANTEED to do the work, if directions are followed, or money refunded.

CHEAP It costs less than 1 cent per bird to apply JORAM'S LICE RID, and that's the end of it. You need this key to success in poultry raising. You need it now. One size, 3 ounces for 50 cents.

G. L. DU BOIS, Distributor, COBDEN, ILLINOIS.
Mention the American Poultry Journal when writing to advertisers.

all the gardens about here. We had plenty for the table, for canning, and a good yield of seed. Peas have been a prolific crop since June 17 and lasted later in the summer than is usual hereabouts. Tomatoes blighted to some extent, but on the whole garden stuff has done well. Hay has been a short crop and we are having some difficulty in buying a full winter's supply. We do not expect to worry over the fuel shortage, as we have hauled out an ample amount of cord wood to see us thru. There is still a tremendous amount of work to be done before cold weather, but it is a heap more satisfactory doing it for oneself instead of depending on doubtful hired help.

* * *

If anyone is in need of real exercise, we can recommend cutting, making and housing a ton of hay entirely by hand labor without help. It beats golf in every way and has more practical value. The scythe, fork and rake will beat any set of golf clubs ever carried by a cadie. If one desires to string out this sort of entertainment thru the summer season, try using a scythe to cut green stuff to supply two cows daily thru a prolonged dry spell. It may be a lot of fun to make a long drive and to put a small white pill in a tin can on a level green, but there's a lot more satisfaction in mowing a good clean wide swath.

* * *

Interest in the fall fairs and next winter's poultry shows is good and augurs well for business the coming season. Local poultry associations should make a special effort this season to put on a good poultry exhibition with special features to catch and hold the interest of beginners. The poultry section of Uncle Sam's Animal Husbandry Division is prepared to offer suggestions and assistance to make poultry shows a success and is urging more and better poultry exhibitions. Secretaries of local poultry associations should get in touch with Harry M. Lamon, senior poultry husbandman, U. S. Department of Agriculture, Washington, D. C.

* * *

Now that the National War Emergency Poultry Federation has taken the initiative and put its president, Reese V. Hicks, into an office at Washington to look after the interests of poultrymen, we believe it is the duty of every person and organization interested in the poultry industry, or allied business, to get back of the movement and give it hearty support. Mr. Hicks is an ex-president of the American Poultry Association and a loyal member of that organization. He is well qualified to serve in the important office for which he has been selected, being a producer, fancier-breeder, judge of Standardbred poultry, with long experience in various branches of the business as well as being long associated with poultry journalism. He has positively stated that the new federation is not to conflict in any way with the A. P. A. In fact, the latter organization was among the first listed for membership in the federation and President Richards of the A. P. A. was made a vice-president of the federation.

This is no time for a split in the ranks of poultrymen or for a division of interests and effort. Every fancier, breeder, practical poultryman, baby chick man, incubator manufacturer, supply and feed dealer—in short, everyone interested in

Shorten the Molt-Hurry the Pullets

Fall and winter eggs bring the high prices. This season they promise to be higher than ever. Get your birds to laying early. Keep them at it all winter. Make bigger profits than ever before. Right now, today, you should begin giving your flock

Pratts Poultry Regulator The Guaranteed Poultry Tonic and Conditioner

It shortens the molting period by weeks, prevents loss during this critical period, makes the hens lay early and often. It brings the pullets to early laying maturity, strengthens and invigorates them for a hard winter's work.

In a word, Pratts Poultry Regulator will make *your* layers begin profitable egg-production weeks earlier than they otherwise would, keep them laying heavily and steadily during the period of high prices, protect their health, enable them to earn big money for you. *Make the test at our risk.*

Pratts Poultry Disinfectant keeps the poultry plant sanitary, drives disease away, destroys lice and mites. It is inexpensive—pleasant—non-poisonous—highly efficient.

Our dealer in your town has instructions to supply you with Pratts Preparations under our square-deal guarantee—"Your money back if YOU are not satisfied"—the guarantee that has stood for nearly 50 years.

Write for new Poultry Book—FREE

PRATT FOOD COMPANY
Philadelphia Chicago Toronto



USE KEY-RING-O LEG BANDS

Made in 10 Colors—6 Sizes
Black, White, Dark Blue, Pink, Light Blue, Red, Yellow, Green, Purple and Garnet.

	12	25	50	100	250
No. 3—Baby Chick	10c	20c	35c	50c	\$1.15
No. 1—Pigeon	10c	20c	35c	55c	1.25
No. 5—Bantam	15c	25c	45c	75c	1.75
No. 2—Mediterranean	15c	25c	45c	80c	1.85
No. 4—American	15c	30c	50c	85c	2.00
No. 6—Asiatic	15c	30c	50c	90c	2.15
No. 7—Turkey	15c	30c	50c	90c	2.15

Special price on larger quantity.
Send 14c and we will immediately mail you 15 Bands. State size and color wanted.
C. H. GORDINIER Dept. J. TROY, NEW YORK

SACRIFICE SALE!

On account of shortage of labor must reduce flock. Will sell 500 choice one and two year old breeding hens for \$1.75 each, \$20 per dozen, \$160 per 100. These hens are from our breeding yards and already have been culled closely. Cocks and cockerels \$2.50 and up; worth double. Eight-week-old pullets \$1.25 each, \$14 per dozen, \$100 per 100. Also older pullets. Our pen was first in North American Laying Contest in May.

FOURCHE MOUNTAIN POULTRY FARM
Route 11 CUMMINS RATCLIFFE, Owner Little Rock, Ark

Sandy's White Orpingtons

THERE'S A REASON why Sandy's White Orpingtons are so popular with their owners. They lay eggs, and lots of 'em.

100 utility hens, 1 and 2-year	..... \$2.50	200 March and April hatched pullets	..... \$2.50 to \$5
50 trapnested hens, 1-year	..... 5.00	50 exhibition hens	..... \$10 to \$100
200 March and April hatched cockerels	..... \$2.50 to \$5.00	30 exhibition cocks and cockerels	..... \$20 to \$200

Send for new illustrated catalog. **R. E. SANDY, Box 45, STUART'S DRAFT, VA.**

You Should Send 25c for Our New Poultry Account Book.



BIRDSEYE VIEW OF OAK DALE FARMS, BOX A, LE ROY, MINN

the welfare of the poultry industry—should boost for the National War Emergency Poultry Federation and help to make it a complete success. It is folly for anyone to say that fanciers have nothing in common with the new federation. Everyone connected in any way with the poultry industry has in-

terests in common with all other poultrymen; the fanciers should have more in common with this movement than the others, for the fancier-breeder's success is dependent upon the success of other branches of the poultry industry. Put aside all doubts, forget differences of opinion and bury prejudice. Union of

all poultry interests in one big, harmonious, efficient, co-operative organization is essential to getting the Standard-bred poultry industry where it ought to be. We have been muddling along from bad to worse overlong. Here is a chance for a "get together" of all poultry interests for the common good of all. Let's make the most of it. The federation is pushing a campaign for "Twenty-five Thousand One-Dollar Members" and a great many of the life members of the American Poultry Association are joining, and believe that by so doing they will be able to accomplish loyal service to the old organization and help boost a big co-operative movement which will benefit the whole poultry industry. Here is an opportunity to put into effective operation the strength of a union of all poultry interests in one big, organized effort which embraces all poultry associations and every branch of the poultry business and allied business. It does not matter whether or not the movement has come in the precise manner which we hoped for—the federation is a fact, it has the support of the poultry representatives at our state agricultural colleges, it is now on the job and doing business, and earnest, honest, capable men—loyal members of the A. P. A., too—are working hard to insure success. So get into the procession and be a booster. Let's have a united poultry industry.

Reese V. Hicks, president of the federation, reports that headquarters of the N. W. E. P. A. were opened at 918 F Street N. W., Washington, D. C., the first week in August. This is prompt action and promises well.

* * *

Once again we are up against a serious sugar shortage here in the East and are asked to voluntarily do without sugar for two months or so. For the most part, the people are cheerfully accepting the situation and doing without sugar except for a modest allowance of two pounds a month for children. However, it is difficult to understand a line of reasoning which considers it necessary to supply candy manufacturers with sugar by the ton while homes must go without sugar; we have many candy manufacturers in our state and they do not appear to be limiting their output to any considerable extent. Also, it has one guessing when professional baseball

Are Your Hens Doing Their Best ?



More eggs and chickens is the crying demand today. Never has there been a time when the right kind of poultry feed meant so much in results and profits.

Badger Poultry Feeds

Badger Poultry Feeds are solving the feeding problem for thousands of successful poultry raisers. They contain the necessary food elements, keep egg production at maximum, build strong healthy fowls, because they are prepared by experts who combine practical experience with scientific knowledge.



CONSERVATION SCRATCH

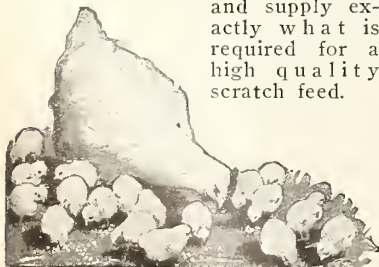
Your fowls must have a good scratch feed. Conservation Scratch meets the Government demand for conservation of wheat. It is a scientifically selected combination of clean grains which analyze high in food value and supply exactly what is required for a high quality scratch feed.

Use Krause Mash for your mash feed. It has made a splendid record, is a remarkable egg producer and is always uniform in quality. Krause Mash and Conservation Scratch will keep your stock in pink of condition. Conservation Chick and Developer Feeds are unrivaled for promoting rapid and healthy growth of young chicks.

WRITE FOR FREE SAMPLES

If you are not already using Badger Poultry Feeds, write for free samples of Conservation Scratch, Conservation Chick and Developer Feeds and Krause Mash. If your dealer cannot supply you, we will see that your orders are promptly filled.

CHAS. A. KRAUSE MILLING CO.
Manufacturers of Badger Line of Poultry and Farm Feeds
Milwaukee, Wis., U. S. A.





WHERE THOUSANDS OF S. C. WHITE LEGHORNS ARE RAISED.

players are exempted from military duty until the close of the season, as being engaged in essential employment, while farmers and poultrymen, both married and single, are being promptly drafted and often taken on such short notice that they have no time to settle up their business affairs or get the farm and plant into competent hands. Is sport more essential than food production? Is candy an essential or a luxury?

* * *

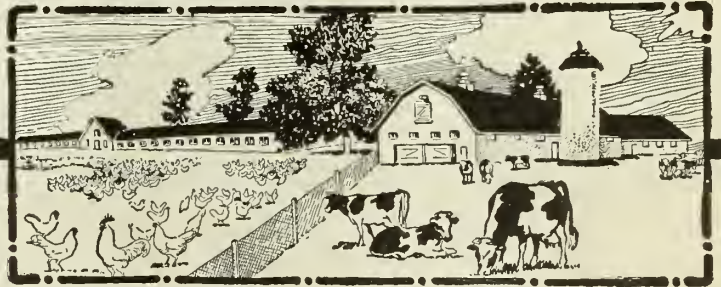
There seems to be a considerable mixup in the matter of feed prices, especially so in the fixed prices on wheat by-products. According to government statement, the price on wheat "mixed feed" on July 1 was fixed at \$26.88 per ton, bulk, in carload lots. On July 22 a new fixed price on the same product was given as \$31.88 per ton, bran at \$31.13 and middlings at \$32.63 per ton. In order to get these prices one must buy of the mill direct for cash and order a full carload of each feed. The price bagged was stated to be around \$6 additional per ton. Supposedly any farmer or group of farmers could buy at these prices, but we have not been able to learn of anyone who has been able to buy at the fixed price, altho this price was supposed to prevail f. o. b. station at Eastern points. Dealers here are still getting from \$2.40 to \$2.85 per 100-pound bag for mixed feed in ton lots and our local grain dealer told us on August 8 that he had to pay \$46 per ton for mixed feed in sacks in carload lots. There is a decided scarcity of wheat by-products here in the East and men who are in the feed trade state that we may expect a shortage until the new crop of wheat is milled.

* * *

According to recent quotations of our local organization, the Old Colony Co-operative Poultry Exchange, the best prices on grains and feeds which it has been able to secure for members are as follows, per 100-pound sack (sacks 30 cents extra on hard grains): Corn meal, \$3.45; cracked corn, \$3.60; whole corn, \$3.60; gluten feed, \$2.80; scratch feed, \$3.80; stock feed, \$2.60; oats, \$2.15 (per 2 bushels); spring bran, \$2.35; spring middlings, \$2.35; flour middlings, \$2.68; ground oats, \$2.37; hominy feed, \$3.05; dry mash mixture, \$3.85. These prices are considerably easier than they have been and are wholesale to members only.

Under present conditions it is undoubtedly the wisest policy for backlotter and small flock poultry keepers to buy scratch grain and ready-mixed mash mixtures. Where a reliable brand is purchased results are more satisfactory all around. Of course, owners of large

flocks may find it more economical to buy separate grains and feeds and do their own mixing. We have been using a ready-mixed mash all summer and combining it with liberal feeding of corn and oats. The mash we get contains both fish meal and fine beef scrap, and



Are The Winter Quarters Ready?

NEARLY everyone realizes that poultry and livestock will not thrive or produce their best when confined in dirty, dark and gloomy living quarters. In winter eggs and dairy products bring their highest price, and poultry and livestock spend most of the time indoors—without the benefit of sunshine and fresh air. Therefore it is most important that buildings be kept bright, cheerful and sanitary, as a help to better production and also as insurance against the introduction and spread of contagious disease, which if once started is apt to spread rapidly and cause the loss of the entire season's profits.

The time and trouble it takes to mix whitewash and the double work of again going over the same surface with a disinfectant keeps many men from giving this sanitary work the attention they know it deserves. This disagreeable task can be turned into an easy, rainy-day-job if you will use



a snow-white paint, in powder form, combined with a germicide, or disinfectant, that is many times stronger than pure carbolic acid. Carbola is neither poisonous nor caustic, but it kills lice, mites, fly-eggs, etc., and is as effective as anything on the market in keeping the germs of contagious diseases that affect poultry and livestock from spreading through your flock or herd.

Carbola is ready to use as soon as mixed with cold water—no straining or waiting—and can be applied to wood, brick, stone or cement surfaces or over whitewash, with a brush or spray pump. One gallon covers about 200 square feet.

It will not blister, flake or peel off, has no disagreeable odor to taint milk or other food products, does not spoil by standing so can be kept on hand ready to use when wanted. The dry Carbola is unexcelled as a lice powder.

Use It Instead Of Whitewash

Carbola will increase the light in your poultry houses, stables, pig pens, cellars and dairy buildings—make them sweet-smelling and sanitary—a pleasanter place to work in—improve their appearance—all in one operation. Carbola is used and endorsed by thousands of poultry, dairy and breeding farms, and many agricultural colleges and experiment stations. Order today so you will be sure and have it when you want it.

10 lbs. (10 gals.) \$1 and postage 20 lbs. (20 gals.) \$2 delivered
50 lbs. (50 gals.) \$4 delivered

Trial package and interesting booklet for 25c. postpaid

Your hardware, seed, paint or drug dealer has Carbola or can get it. If not, order direct—shipment by parcel post or express the day order is received.

CARBOLA CHEMICAL CO., Inc.

Dept. F 7 East 42nd Street New York



Better than White Wash

Apply with Spray or Brush





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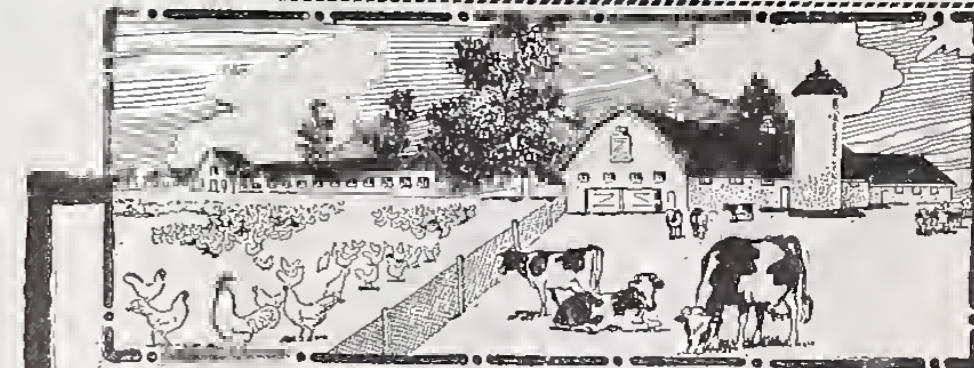
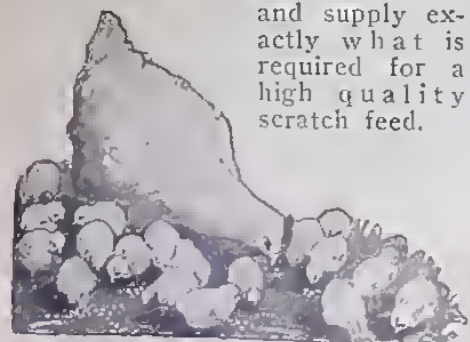
Your fowls must have a good scratch feed. Conservation Scratch meets the Government demand for conservation of wheat. It is a scientifically selected combination of clean grains which analyze high in food value and supply exactly what is required for a high quality scratch feed.

Use Krause Mash for your mash feed. It has made a splendid record, is a remarkable egg producer and is always uniform in quality. Krause Mash and Conservation Scratch will keep your stock in pink of condition. Conservation Chick and Developer Feeds are unrivaled for promoting rapid and healthy growth of young chicks.

WRITE FOR FREE SAMPLES

If you are not already using Badger Poultry Feeds, write for free samples of Conservation Scratch, Conservation Chick and Developer Feeds and Krause Mash. If your dealer cannot supply you, we will see that your orders are promptly filled.

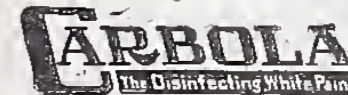
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Manufacturers of Badger Line of Poultry and Farm Feeds
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Are The Winter Quarters Ready?

NEARLY everyone realizes that poultry and livestock will not thrive or produce their best when confined in dirty, dark and gloomy living quarters. In winter eggs and dairy products bring their highest price, and poultry and livestock spend most of the time indoors—without the benefit of sunshine and fresh air. Therefore it is most important that buildings be kept bright, cheerful and sanitary, as a help to better production and also as insurance against the introduction and spread of contagious disease, which if once started is apt to spread rapidly and cause the loss of the entire season's profits.

The time and trouble it takes to mix whitewash and the double work of again going over the same surface with a disinfectant keeps many men from giving this sanitary work the attention they know it deserves. This disagreeable task can be turned into an easy, rainy-day-job if you will use



a snow-white paint, in powder form, combined with a germicide, or disinfectant, that is many times stronger than pure carbolic acid. Carbola is neither poisonous nor caustic, but it kills lice, mites, fly-eggs, etc., and is as effective as anything on the market in keeping the germs of contagious diseases that affect poultry and livestock from spreading through your flock or herd.

Carbola is ready to use as soon as mixed with cold water—no straining or waiting—and can be applied to wood, brick, stone or cement surfaces or over whitewash, with a brush or spray pump. One gallon covers about 200 square feet. It will not blister, flake or peel off, has no disagreeable odor to taint milk or other food products, does not spoil by standing so can be kept on hand ready to use when wanted. The dry Carbola is unexcelled as a lice powder.

Use It Instead Of Whitewash

Carbola will increase the light in your poultry houses, stables, pig pens, cellars and dairy buildings—make them sweet-smelling and sanitary—a pleasanter place to work in—improve their appearance—all in one operation. Carbola is used and endorsed by thousands of poultry, dairy and breeding farms, and many agricultural colleges and experiment stations. Order today so you will be sure and have it when you want it.

10 lbs. (10 gals.) \$1 and postage 20 lbs. (20 gals.) \$2 delivered
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Better than White Wash
Apply with Spray or Brush

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TELL THE AGE OF POULTRY

Identify birds as far as you can distinguish colors. Made in Red, white, blue, green, black and yellow.

Mention variety when ordering.



SPECIAL BRAND—Single coil. Made of lighter material and have less lap than Economy brand. 25 for 25c; 50-50c; 100-85c; 250-\$2.00; 500-\$3.50, postpaid.



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THE VICTOR BAND Large printed numbers, bright clear colors—Red, white, blue, green, yellow. Made of celluloid and aluminum. Adjustable. 12 for 35c; 25-65c; 50-\$1.25; 100-\$2.25; 200-\$4.00. **Victor Sealed Band**—12 for 40c; 250-\$2.75; 100-\$2.75. Pliers 60 cents.

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THE CAPITAL BAND Has raised figures. Adjustable, strong, smooth edges. 12-15c; 25-25c; 50-40c; 100-65c; 250-\$1.50; 500-\$2.75; 1000-\$5.25.



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The Commercial Sealed Band—Aluminum, raised figures. Sealed with soft metal rivet. 25 for 35c; 50-65c; 100-\$1.10; 250-\$2.60; 500-\$5.00. Pliers 60c.

Poultry Cuts New designs, a complete line. Catalog Sent Free.

Favorite Poultry Punch, Price 25 cents.

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World's Greatest Layers

S. C. W. Leghorns W. Wyandottes
S. C. R. I. Reds Buff Orpingtons
\$5.04 PER PULLET in 5 winter months that's the prize-winning record for value of eggs laid by our pen of 6 Leghorns at Lewesworth in the severest winter known. Our champion pullet No. 1104 laid 28 eggs in coldest January in 98 years; our pen of 6 Leghorns laid 106 eggs same month. Merely another proof that our perfected English 200-Egg Strain leads in every competition. **OTHER RECORDS:** 24 eggs in 35 days laid in last N. A. Egg Contest by our World's Champion Wyandotte, beating all entries of all breeds. First Prize Leghorns N. A. Contest, 6 hens laid 1183 eggs; First prize, 6 hens laid 1043 eggs; Wyandotte, Missouri Egg-Laying Contest, 10 hens laid 2005 eggs. **Most profitable poultry known**—cuckers, pullets and hens from champion pens. Write today for book, "Story of the 200-Egg Hen." Price, 10c, refunded on first order. PENNSYLVANIA POULTRY FARM, Box A. LANGASTER, PA.

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PEORIA, ILL.
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Booking orders for show birds. Breeders half price. DEYOE'S Station 1 DODGEVILLE, WIS.



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is prepared at a nearby elevator. There is considerable advantage in being able to buy nearby products, as transportation delays are frequent. Small lots of from a few hundred pounds to one or two tons are subject to long delays in freight, but where a group of producers or a co-operative association can buy in carlots there is less trouble in getting delivery, altho it may be rather slow.

* * *

We have just received the summer issue of *The Puritan Hen*, a new poultry paper "published every little while" by the New England Poultry Producers' Exchange and distributed free to all present and prospective members. This publication is devoted to the conservation and promotion of New England poultry interests and to the upbuilding of the exchange, and contains the prospectus of this new co-operative poultry association. Those interested in the association and its work should write to R. L. Morgan, Clerk, New England Poultry Producers' Exchange, 393 Main Street, Worcester, Mass. The exchange has adopted a "Blue Diamond" trademark which will appear on all packages of poultry produce marketed for members, and a Boston store is soon to be opened. The officers of this organization are: Howard P. Gilmore, president; William H. Saart and Paul P. Ives, vice-presidents; Walter B. Farmer, treasurer; Ralph L. Morgan, clerk; directors, J. H. Lord, H. P. Gilmore, A. M. Lovenberg, W. H. Saart, R. L. Morgan, Brooks Farrar, W. H. Mayo, Paul P. Ives, Lester Tompkins, W. B. Farmer; "at large," J. C. Graham, W. F. Kirkpatrick, D. J. Lambert, Chas. E. Allen and H. M. Tucker. Howard W. Selby, of Springfield, Mass., is manager.

Here is an interesting article which we found in *The Puritan Hen*:

Food Value of Eggs.

Eggs are one of the cheapest foods to be had to take the place of meat. We quote from a government bulletin: "The principal food element furnished by eggs is protein, the nitrogenous tissue-building element whose presence in considerable proportions also gives meats, fish, milk, cheese, etc., their special food value. Eggs can therefore be substituted in the diet for the latter foods without altering the proportions of protein consumed. In addition to protein, eggs also furnish fat and a number of valuable elements, including sulphur, phosphorus, iron, calcium and magnesium in an easily assimilated form, and are believed also to be rich in certain essential vitalizing elements called vitamins.

Like milk and unlike meats, eggs do not contain substances convertible in the body into uric acid. Their shells constitute the only waste materials. Ninety-seven percent of the portion eaten — a high proportion compared to other foods—is digested. No extended cooking is necessary for eggs and therefore, a saving of time, labor and fuel in their preparation when they are compared with other foods. For all these reasons eggs deserve an important place in the diet for use at times in place of other foods rich in protein, provided egg prices are not so high as to outweigh the other considerations.

Remember that a dozen eggs ought to weigh at least 1½ lbs. and we will assume that you pay in the cold weather \$1 per dozen for them. Ninety-seven percent of this purchase is all good, healthy food. A good steak at 75 cents per pound will be found to be one-third bone and waste fats. In other words, you have paid 75 cents for two-thirds of a pound of meat. The real cost of this food is therefore \$1.12½ per pound.

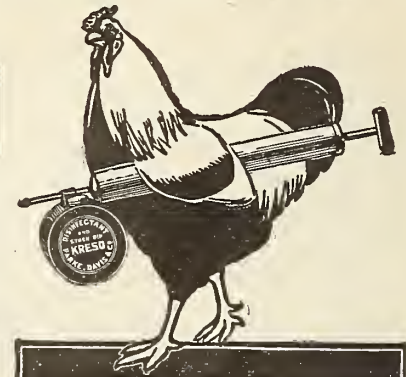
In the case of the dozen eggs that you bought for \$1, you only paid at the rate of 66 2/3 cents per pound, because you buy 1½ pounds for a dollar.

This simply means that of the two foods meat is costing you \$1.12 per pound against eggs, the better food, at 66 cents per pound.

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HEALTHY POULTRY

KILLS LICE AND MITES.
WILL HELP STOP LOSS FROM DISEASE.

One Gallon
Makes 72 Gallons

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EQUALLY GOOD FOR ALL LIVE STOCK.

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Questions and Answers
Conducted by
 Prince T. Woods, M. D.

Questions about poultry are answered in this department free for all readers of American Poultry Journal. Where answers are desired by mail, a stamp for reply is requested. Address all query letters to the managing editor, Dr. Prince T. Woods, Lock Box 4, Silver Lake, Mass.

How Many Pullets in 14x15 Open-Front House?

Q. Please advise me how many Ancona pullets I can keep in a Woods open-front house, 14x15 feet. I want to use these birds for layers during coming winter and do not want to crowd them. W. P. H.

Johnson City, Tenn.

A. Fifty pullets will be about right for comfort and best results. If necessary you can make the house accommodate 60.

No Droppings Boards.

Q. Of what use is the droppings board? In my opinion, it makes just that much extra surface to keep clean. If it caught all the droppings it would be a different story. Perhaps it serves a use in preventing drafts at night. My idea is no dropping boards, placing the roosts at proper height from the floor. Of course, keep the whole place clean. Denver, Colo. W. J. D.

A. The use of droppings boards is a matter of individual preference. We have a dozen poultry buildings and only have dropping boards in one of them. The chief reason is that with this particular house, which is a portable one, the dropping boards came with it. We do without a dropping board because it saves labor and one does not need to clean out the house so often. Roosts are at rear of house and the hens scratching away from light throw more or less earth and litter back over the droppings. Roosts are usually placed about two feet above top of sills in earth floor houses or a like distance above floor in a wood or cement floor house. There are times when one is housing exhibition stock that it is convenient to have dropping boards, which should be cleaned daily and well covered with dry earth or other absorbent; but for layers or breeding birds we have not found them necessary.

Where droppings are to be saved for sale dropping boards are essential, for the droppings must be saved dry and free from foreign material. We use all droppings for dressing garden or grass land and it is more convenient for us to have them housed until they can be carted and spread in one operation. As long as there is no offensive odor from the droppings and they remain dry beneath the roosts, so that the birds do not foul their feet, we feel that there is no objection to their remaining under the roosts. If the droppings advertise their presence by proving offensive to a sensitive nose, they should be removed at once. With good management, it should not be necessary to clean the poultry house more than three times a year—early spring, midsummer and fall. At these seasons the droppings can be applied directly to the land. Every time manure is handled and moved adds to its cost. If we had a back-lot flock we probably would use dropping boards

and keep the manure in covered barrels, to be used as needed. There is a wide difference between handling large flocks on a farm and a small back-lot flock.

Poultry House in South.

Q. What kind of a poultry house would you advise building on a small

plant south of Jacksonville, Fla.? Would a wire enclosed building, made of so-called "wire lath," used for stucco work, be sufficient? C. C. P.

Jacksonville, Fla.

A. We have not had any experience in keeping poultry in Florida, but we believe that in so genial a climate a poultry house with good rainproof roof and with side walls made of heavy 1/4-inch mesh wire cloth, or of the "wire lath" as you suggest, would be all the house needed. Heavy 1-inch mesh poultry netting would serve, unless thieves are troublesome, in which case it is too easily cut with tin shears. In tropical or semi-tropical climates a roofed shelter to protect roosts and nests from rain and wind storms is all that is needed. We have seen some excellent poultry

**Always Under Guaranteed Analysis
 In Any Market Conditions :**

**18% Protein
 3 1/2% Fat
 50% Carbohydrates
 12% Fibre**



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 POULTRY MASH**

Prof. C. H. Burgess, Michigan Agricultural College, has learned from experience that "no matter what sort of feed one can prepare from the ingredients to be obtained at retail, he can do still better on feeds accurately prepared by feed manufacturers."

**Sucrene Poultry Mash and Scratch Feed
 Meet Every Poultry Requirement**

Chick growth and egg production demand the same nutrients. Grain alone does not supply them. Sucrene Poultry Mash is necessary for both. It contains the strong protein element for bone, flesh, feathers and rich blood, in growing poultry; and, combined with Sucrene Scratch Feed, supplies the materials for yolks, whites and shells necessary for maximum egg production.

Composed Only of High Quality Materials

Sucrene Poultry Mash is composed of high grade meat scraps, corn feed meal, alfalfa meal, corn distillers' dried grains, wheat bran, linseed meal, palm kernel meal, calcium carbonate and a little salt.

Sucrene Scratch Feed contains only clean, sound grains in correct variety and proportion to insure best results.

Raising a thousand chicks "with practically no losses by disease" and "doubling egg yield in three weeks," are Sucrene Poultry Feed records.



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Ferris Leghorns

LAY WINTER EGGS

For eighteen years Ferris White Leghorns have been bred to lay more eggs at all seasons than ordinary hens, and to lay particularly well in winter when eggs are highest. We do not breed from hens that are not good winter layers. We can't afford to, for with one of the largest poultry farms in the country we must have winter eggs to make it pay.

Thousands of poultry keepers in all parts of the country are having unusual success with Ferris stock; hundreds of customers in Canada also, and we have made successful shipments to Scotland, Japan, Australia, Nicaragua, Alaska, Philippine Islands, Bermuda, Cuba and Mexico. We guarantee safe arrival anywhere.

ALL STOCK IS SHIPPED ON APPROVAL. You can return within three days any birds not satisfactory and money will be refunded. (We will ship C. O. D. if you want to see the birds before paying for them. Send only \$1.50 for a pen of five, and 20 cents each for larger numbers to guarantee express charges.) We insure all stock for 30 days. Any birds that die or get out of condition will be replaced free of charge. Their breeding value is also guaranteed. Any male that does not produce fertile eggs, any hen that does not lay hatchable, good-shaped eggs replaced free.

Special Aug. and Sept. Prices

We have three grades of laying stock. Stock from our heaviest laying strain with trapnest records of 230 to 264 eggs will cost as follows.

EARLY HATCHED COCKERELS \$9.00 each, \$8.10 each for 10 or more. Yearling hens or early pullets \$4.50 each—1 male, 2 females, \$18.00; 1 male, 4 females, \$27.00; 1 male, 8 females, \$40.50; 1 male, 12 fem., \$54.00; 7 males, 100 fem., \$385.20.

STOCK FROM 200 TO 230-EGG STRAIN—the kind we recommend for breeding and laying where large flocks are required: Early hatched cockerels \$6.30 each, \$5.40 each for 10 or more. Early pullets or yearling hens \$3.15 each; 4 females, 1 male, \$18.90; 12 females, 1 male, \$42.30; 100 females, 7 males, \$294.30; 100 females without males, \$256.50.

UTILITY STOCK FOR LAYING AND BREEDING. Not bred from trapnested stock, but from stock that we can guarantee to be better than the average. Cockerels \$4.50 each, \$3.60 each for 10 or more. Hens \$2.25 each, \$180.00 per 100. Pullets \$2.70 each, \$225.00 per 100. Four hens, 1 ckl., \$13.50; 12 hens, 1 ckl., \$28.80.

WINNERS FOR ANY SHOW. We can furnish cocks and cockerels hatched directly from our Chicago Coliseum winners at \$30.00 to \$100.00. Hens and pullets at \$15.00 to \$50.00. These birds will win at any fair. They have splendid low tails, good heads, wonderful shape in every section, and pure white plumage. We have hundreds of early hatched cockerels and pullets to select from and will guarantee them to please you. Remember that for several years Ferris Leghorns have been leading winners at the Chicago show, winning in 1915, 3 firsts and numerous other prizes, including silver cup for best display and silver cup for best five cockerels. In 1916 we won all specials, all 1st and 2d prizes; last Dec. we won 3 first and 16 other prizes, so no matter where you wish to show, we have the birds that will win for you.



This 1918 Catalog Is FREE

Send for your copy today. Describes fully the stock, eggs and chicks quoted above. Contains photos showing 35 acres of White Leghorns; describes our methods of feed and care; how we improve laying qualities; list of winnings at 20 big shows; many letters from customers; prices of exhibition, breeding and laying stock, eggs for hatching and day-old chicks. Even if you are not now in the market for stock, we will be glad to send you a copy. Mail postal now while you have the matter in mind.

GEORGE B. FERRIS
905 Union Avenue Grand Rapids, Mich.

houses in the South that were practically all open, wire front and the rear and side walls made of slats spaced about one inch apart. We shall be pleased to have poultry keepers in the far South send us photos, plans and description of the poultry house they find best suited to their locality.

Formula for Dry Mash and Scratch.

Q. Please give me a good dry mash formula. The following feeds are more readily obtained here: Corn meal, ground oats, wheat bran, wheat middlings, stock feed, fish meal and beef scrap. For scratch grain we have cracked corn, feed wheat, oats and barley. How would you mix them?

Lynn, Mass. J. C. B.

A. For mash mixture use equal parts by weight of feeds named and about 10 percent each of fish meal and beef scrap. Make your scratch grain mixture 100 pounds cracked corn, 64 pounds oats, 48 pounds barley and 20 pounds of feed wheat.

Feed Bags.

Q. What are burlap feed bags worth? I have a good many saved which contained bran and mixed feed.

Worcester, Mass. C. H. H.

A. Feed sacks are very scarce, having been bought up for shipment overseas. If you have any use for them would not sell them, as in a very short time one may be required to furnish his own feed sacks; in fact, in most purchases of feeds and all hard grains the buyer is obliged to pay 30 cents each for sacks. Feed sacks in good order will sell to collectors and feed dealers at from 20 to 30 cents each, according to condition and quality. Heavier sacks, such as are used for meal, are bringing even higher prices. Those who have use for sacks will find that it will pay to take good care of them and hold onto a sufficient supply for their own use.

A Matter of Judging.

Q. In showing a pullet, what age should it be? Should pullet be undeveloped in comb, wattles and lobes? Is a pullet too far advanced if she has been laying for one or two weeks? If a pullet is shown equal in type and up to Standard in the majority of sections, and had been laying for one or two weeks, and a younger pullet, say about four months old, both pullets equal in all sections, would the younger pullet win over the older? Kindly give page of Standard dealing with this subject. Above information is wanted in regard to S. C. White Leghorns. If younger pullet was placed over the older, could a protest be made? C. W.

Merritton, Ont., Canada.

A. This is a matter for the judge handling the class to decide. All things being equal, the one nearest Standard weight should win, if size and weight are proportionate (see "Instructions to Judges," pages 35 and 36, Standard of Perfection). Condition would be an important factor in deciding between the specimens. A pullet which had been laying would not be likely to be in as good show condition as one which was just about to arrive at laying maturity. Age is not so important as type and condition, but "the size must be proportionate to the weight, preserving the ideal shape and type of the Standard

"Whatglen"

Single Comb

Black Minorcas

have no superiors in the show room or for utility purposes. If you are looking for winners at your show, write me your wants.

Stock for Sale

from our best matings at most reasonable prices. Write for our free catalog, the finest ever issued in the interests of Black Minorcas.

WHATGLEN FARM

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Perry's Rose Comb White Leghorns

are one of the oldest and best strains; 1st prize winners Chicago and 15 big state exhibitions; also best display National Club meeting, and, best of all, they make good in customers' hands both as layers and exhibition birds; the best lot of cocks, hens, cockerels and pullets; also mated pens. Write us just what you want, and we will make you very low prices. Remember we guarantee safe arrival on all stock and reasonable satisfaction to every customer. Our circular is free.

LOUIS H. PERRY

CLAY, Route 8, Onondaga Co., N. Y.

Have you read the Poultry Doctor?

IF NOT, you should have a copy of this valuable booklet. Thousands of poultry people are following the instructions of the *Poultry Doctor*. This booklet contains sixteen different formulas of remedies for diseases common among fowls. It is yours free of charge. Just drop a postal with name and address to

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S. C. Buff Orpingtons

Winners at Greater Chicago, Ill. State, Peoria, Quincy, Monmouth, etc.

Special Sale of Cockerels and Pullets

from winners at the above shows
Write me your needs

D. L. WARNER LITTLE YORK, ILL.

Rose Comb Reds

We are now ready to furnish choice early hatched birds for the Fall and early Winter Shows. Also a few choice adult birds. Priced reasonable and shipped on approval. Write for catalog.

Longfield Poultry Farm Box 321 Bluffton, Ind.

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specimens." As a general rule, it is not good policy or good sportsmanship to protest awards. It is to be assumed that a competent judge has good and sufficient reason for placing one specimen above the other in awarding prizes. The Standard weight for Leghorn pullets is 3½ pounds.

Leg Weakness in Ducklings.

Q. Please tell me the cause of leg weakness in young ducks. They have free range of a large orchard, but do not have running water. They are supplied with plenty of drinking water. They get this leg weakness from the time they are six weeks old until full feathered. Have little use of their legs, but after sitting for an hour or more can get up and walk all right for a while, tho they get that way again the same day. There are several of mine that grew faster than the others and they have never had this weakness. Would it be anything in the growth of the ducks? These ducks have dry sleeping quarters. Have not furnished them with much sand or grit. Mrs. A. H. Galena, Ill.

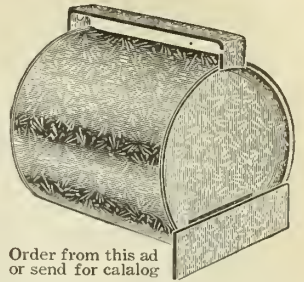
A. Cause is probably too heavy graining and not sufficient lime in ration. Limit the grain ration and let them depend more on greens for food. Keep a box of finely crushed oyster shells where they can have ready access to it at all times. Also supply sharp sand for grit. Supply some good beef scrap in their mash.

Growth on Back of Cock.

Q. I have a Barred Plymouth Rock cock that has a bad sore on his back. When first noticed it was about as large as a cent and had a high, cone-shaped scab. I removed scab and treated it with carbolated vaseline. It seemed to respond all right. Soon it was growing again and finally got to be as large as a hen egg. It does not have the appearance of an abscess, but is covered with a growthy scab and also has an odor, which may come from this scab being removed or may not. The growth is at least an inch high, and the flesh around it looks red and inflamed. It must be about three inches in diameter. Do you think there is a chance of curing him? The bird appears well otherwise.

Groton, Conn. H. D. L.
A. From your description, this appears to be a malignant growth. We would not attempt further treatment. Better kill the bird and burn the carcass.

HERE IS A BARGAIN
Special Half Gallon Poultry Fountains



Made of heavy galvanized iron—practically indestructible. Handy to carry and will not tip over. Price, 50 cents each, or **SPECIAL SALE PRICE** while our present stock lasts

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Fair Oaks Barred Rocks

1000 HEAD OF SUPERIOR YOUNG STOCK FOR SALE, bred from such birds as National Barred Rock Club and Illinois Centennial winners. We had more winners at these two shows than all breeders in the United States combined.

Great Bargains in Breeders, 300 head fine old stock, including our winners, including 40 cock birds. Send for circular.

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Big sale of breeding stock now on. 400 birds for sale at one-half their actual value that will fit any breeding pen for another season's work. Let me know your wants fully and I will be pleased to quote you on a single bird, trio or pen. Address
HAROLD TOMPKINS Box A CONCORD, MASS.

Quality White Plymouth Rocks

FINE COCKERELS AND BREEDING STOCK FOR SALE

Give us your order NOW and you will not be disappointed by not being able to get stock later.

Address, **A. G. SPAHR**

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Eggs Half Price.

From pens headed by 1st cock and cockerel Garden, 1917; 2nd cockerel Garden, 1918, 1st pen cock, Boston, 1918.

\$5.00 per 15.

From pens headed by other winning males, at New York, Boston, Oxford and Syracuse, 1917-18.

\$2.50 and \$1.50 per 15.

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More than 2400 "Aristocrat" Barred Rocks are now growing up into superb, magnificent show-birds. The "Aristocrats" are those glorious Plymouth Rocks which are making such a

SENSATIONAL SWEEP OF VICTORIES

throughout all America—from the Grand Palace show, N. Y., to San Francisco; from the foremost shows of Canada down into South America—winning out at such great shows as the annual **National Barred Rock Show** (the greatest of the great), **Chicago, N. Y. Palace, Guelph, New Orleans, the "Tri-State," the "World's Fair," Cleveland, Texas State, and many, many hundreds of other shows.** This is probably the most victorious campaign ever made by any strain of chickens. (Can furnish show-birds in all classes for any show—remember this.)

WONDERFUL LAYERS


At the same time these superb show-birds are also among the world's foremost layers, establishing equally remarkable records—records up to 260 eggs per year. They are, truly, great all around—great layers, great market chickens, great show chickens—all combined. They are in a word

THE WORLD'S GREATEST MONEY-MAKING STRAIN OF CHICKENS

Write me today and let me show you how you can make more money with "Aristocrat" Barred Rocks than with any other variety of chickens.

W. D. HOLTERMAN, Fancier, Box A, Ft. Wayne, Indiana, U. S. A.





**THE OLD RELIABLE
LAMBERT'S
DEATH TO LICE**

has been used over 30 years by
Successful Poultrymen
Because
It Insures **Clean Fowls**

Is just the thing for sitters, as it does not harm eggs or chicks. Keep your hens free from lice and they will thrive and be profitable. 100 oz. \$1.00; 48 oz. 50 cts., 15 oz. 25 cts. Large sample of Powder or Head-lice Ointment 10 cts. "Secrets of Success with Poultry" by D. J. Lambert for 2c stamp.
THE KLEIN-LAMBERT CO., 601 Traders Bldg., Chicago

SPIRALETS
Mark Your Birds Distinctly Without Numbers
True colors. Correct sizes

Dark Blue Light Blue e.l.w.
Red Pink Amber Green
Purple Black White



Size for	12	25	50	100	250	500
Baby Chicks....	\$0.10	\$0.20	\$0.35	\$0.50	\$1.10	\$2.00
Pigeons.....	.10	.20	.35	.55	1.25	2.25
Growing Chicks .10	.20	.35	.60	1.50	2.50	
Bantams.....	.15	.25	.45	.75	1.75	3.00
Leghorns, etc..	.15	.25	.45	.80	1.85	3.25
Rocks, Reds, etc.	.15	.30	.50	.85	2.00	3.50
Asiaties, Turkeys	.15	.30	.50	.90	2.15	3.75
Turkey Toms...	.20	.40	.55	1.00	2.25	4.00

Postpaid. 12 samples and circular 15c. Made by
M. BAYERDORFFER HUGENOT PARK, N. Y.



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EGG TESTER**

MOVE THE TESTER UP OR DOWN TO PERFECT TEST ON SPECIAL WITH EASE AND SPEED

SENT ON APPROVAL BY
F.W. DOBBEL SONOMA CALIFORNIA

Yesterlaid's are money hens

Profit is fixed in the blood of Yesterlaid Leghorns. Their eggs are big and white. Yesterlaid's are far superior to average hens—they lay better in winter and cost less to feed. Three Yesterlaid's can be raised at the cost of two ordinary chickens because they are so vigorous and quick growing. Valuable details free.

YESTERLAID EGG FARMS COMPANY, Dept. 5, PACIFIC MO



GENSCH'S Single Comb White Orpingtons

Sensational Winners at Chicago Coliseum,
Grand Breeders — Half Price
A good chance to get the best cheap.
F. M. GENSCH — OMRO, WIS.

Tycos INCUBATOR THERMOMETERS

90c mean extra chicks hatched—every time. Demand a Tycos with the incubator you buy. Equip your present machines with Tycos at your dealers or Tested and guaranteed. Booklet, "In postpaid from us Incubator Thermometer Facts"—free.

Taylor Instrument Companies 100 Ames St. Rochester, N. Y.

PURITAN-FAHNS Single Comb White Leghorns

Yearling and two year hens. If you are looking for good breeding stock that are laying heavy now, at very reasonable prices, write

PURITAN POULTRY FARM Rt. 2 ZANESVILLE, OHIO

Intestinal Worms.
Q. What will kill worms in chickens? Have about 75 Buff Orpingtons affected. Worms are two to three inches long and about the size of a darning needle. The chickens are very pale and inactive and have poor appetites.
C. A. Kingfisher, Okla.

A. The worms are spread thru droppings. Clean up and disinfect poultry quarters. Let the chicks go without food for 24 hours, then give each chicken five drops of oil of turpentine in a tablespoonful of warm milk. Feed crushed garlic bulbs in mash. Finely chopped raw onions are also valuable for flock treatment; if not eaten readily they may be mixed with mash.

Droopy Chicks.
Q. Please tell me what to do for my chicks. They begin to droop and appear to be starving. Have lost a good many of both hen-hatched and incubator-hatched chicks. They are affected within about a week old, some paste up behind and some do not. I feed them bread, milk and rolled oats.
T. R. M. Red Boiling Springs, Tenn.

A. Trouble may be due to lice or mites, in which case the cause should be easily discoverable, and the remedy is to get rid of the vermin. Possibly your flock is infected with white diarrhoea. Better send some chicks to your state experiment station for examination. If white diarrhoea, the fault is with the parent stock. See information on this subject in book, "How to Raise Chicks," which our book department will supply for 75 cents postpaid.

Colds in Young Chicks.
Q. I have about 150 Leghorn chicks and 11 young geese in the same yard. About three weeks ago the chicks got a cold and are not over it. Have been using a remedy, but they are not getting much better or worse.
Mrs. P. K. Gilman, Ill.

A. It is a mistake to allow geese to occupy the same yard with young chicks—bad for the chicks. Wash nostrils and eyes of chicks and apply camphorated vaseline to nostrils and cleft in roof of mouth. See that sleeping quarters are dry, clean, well aired and not crowded. Feed the chicks liberally. Put the geese in a separate yard.

Silage for Poultry.
Q. I read on page 89 of July A. P. J. that J. G. Halpin recommends the use of silage for poultry feeding in winter. I would like to know what he makes it out of and how he keeps it from souring.
A. S. Lancaster, O.

A. Write to Wisconsin College of Agriculture, Madison, Wis. The article referred to was quoted from a circular by J. G. Halpin of that institution. Silage just as it comes from the silo is sometimes fed plain to hens or is mixed with the mash. Silage is made of various fodders, chiefly corn. Any readers who have had experience in making silage especially for poultry will confer a favor by sending us a detailed report concerning silo, preparation of silage and use in poultry feeding. Where there is a silo for preserving fodders for the cattle, the matter of supply for the poultry is a simple one. We do not think it would pay to build a silo for the sole

The "Best Yet" Aluminum Leg Band

cannot come off. Five sizes, pigeon to turkey. Size listed 12, 15c; 25, 25c; 50, 40c; 100, 75c. Celluloid Leg Bands—Red, Green, Amber, Pink, Black, White, Yellow, Light Blue, Dark Blue. Pigeon and Baby Chick sizes—12, 10c; 25, 20c; 50, 35c; 100, 50c. Poultry sizes, 12, 15c; 25, 30c; 50, 50c; 100, 80c. Circular free.

Aluminum Marker Works, Dept. J, Beaver Falls, Pa.

Natural Hen Incubator \$3

No freight to pay. Actual hen controls everything. No lamp, no costly mistakes. Best hatcher in the world. Over \$50,000 in use.
J. M. Payne, Ill. writes: "It is the best I ever saw for hatching chicks."
Another: "I got 507 chicks from 640 untested eggs."
Thousands of other testimonials. Agents Wanted.
To reach the million mark in 1918, we will send you a Special Introductory Offer with our Free Catalog.
Natural Hen Incubator Co., Sta. H, Dept. 4, Los Angeles, Cal.

Special Sale of Poultry Supplies

Incubators, Brooders, "Ready Built" Poultry Houses, feed and water dishes, lice killer, disinfectants and supplies of all kinds. Write for regular catalogue and Special Sale Bargain List No. 11.

CYCLE HATCHER CO. Elmira New York

LEG BANDS

Celluloid and aluminum; sure clinch, 12-15c, 25-25c, 50-35c, 100-60c; state breed. Spiral celluloid, 12-15c, 25-25c, 50-35c, 100-75c; 10 colors. Stevens' Evergreen "Cat Sprouter, all metal." Sizes "Savaclic" Fountain. Circulars for other bands and supplies.
H. A. STEVENS & CO. Box 355 Aurora, Illinois

Quality Bred-to-Lay S. C. W. Leghorns

exclusively. Tell us what you want and get summer prices on all breeding stock. Our catalog is free. Get one.

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WOOLERY FARM

American Bred-to-Lay White Orpingtons
MATING LIST FREE
WOOLERY FARM, Box A, Bloomington, Indiana

BUFF ORPINGTONS

CATALOG FREE.
F. A. KAUP GLEN ELLYN, ILL.

BANTAMS America's Finest
Bantams, 40 varieties. Game and Ornamental. Shipped on approval. Winners at the largest shows. Stock for sale. Prices reasonable. Cat. 2c. Choice Golden, Silver and Ring-neck Pheasants, Pit Games and Fancy Dogs. F. C. WILBERT & CO. Grand Rapids, Mich.

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JOHN BLANCHARD COLUMBUS, WIS.

S. C. W. LEGHORNS LIGHT BRAHMAS ROUEN DUCKS

Eggs and Stock of above varieties.
C. C. NYE, R. R. 1, Box A, HARRISTOWN, ILL.

HIGHEST SCORE EVER WON 100

Envelopes, 3 1/2 x 6 1/2 inches, an extra strong, thick, smooth, slick, white writing face, and 100 Letterheads, 8 1/2 x 11 inches, heavy, hard, smooth, slick, pure white writing paper, all artistically printed and illustrated with latest new Standard cuts of your breed for only \$1.00. Express charges paid by me. Better printing for the price was never done. No order less than \$1.00 filled. Name your Express office. Cards, tags and egg labels same price as above.

Address, **J. R. HUDSON, Hardin Springs, Ky.**
We have saw samples of Mr. Hudson's printing. It is very nice; he is perfectly bonest.—EDITOR.

Mention the American Poultry Journal when writing to advertisers.

purpose of putting down green fodders for poultry.

Shipping Boxes for Half Grown Chicks.

We have had a number of inquiries for shipping boxes for half-grown chickens. It would pay any manufacturer making a specialty of such to advertise. In our section of the country live chickens from one pound up are shipped in crates.

Mating Related Stock.—Red Color.

Q. I bought a number of Rhode Island Red chicks. The pullets developed good type, but were off in color. I bought a good male this spring from a reliable breeder to mate with these females. He is a bird of fair type, good color and very vigorous. The eggs ran fine in fertility and hatched well. The early pullets are doing fine and all are darker than their mothers. Would you advise mating this male bird to his pullets, or would you keep to the same mating for another season? Would you mate one of the best cockerels back to the hens or would you buy another male? I am after eggs, but if I can do so I want to get better color and type without hurting the egg yield. These hens are not record-breakers, but they have done well. W. H. T.

Great Falls, Mont.

Would mate the cock bird to ten of his best pullets and five of the best hens. Believe that it will be to your advantage to get male from the same breeder to mate with selected females from balance of your stock if you intend to have two breeding pens. Be sure that all breeding birds are healthy and vigorous.

Poultry Manure for Grass.

Q. I have a considerable quantity of poultry manure and can get more nearby. Do you consider this good for application to old sod land and how should it be applied to land which is to be newly seeded to grass?

Whitman, Mass. E. M.

A. We consider poultry manure one of the best fertilizers for grass land. Properly prepared, it makes a fine dressing for old sod. For this purpose you will probably get the most out of it by applying the manure in the late fall or early spring before the grass starts. Compost it and make it as fine as possible before spreading. For fall laying down of grass, it is best to apply the poultry manure after plowing and to harrow it in. In this way you get all there is in it and the grass gets a good start before the heavy frosts come.

Egg Eating and Feather Pulling.

Q. What can I do to prevent my hens from eating their eggs? Have one flock that also pulls feathers, the hens eagerly eat up every feather that drops. How can I stop them?

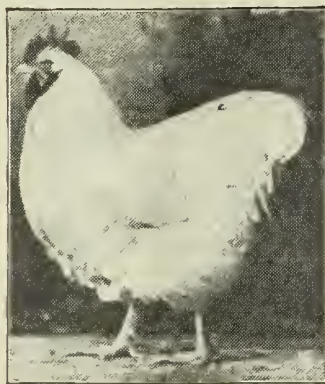
Lexington, Ky. T. A.

A. Both bad habits are often the result of crowding, idleness, and a poorly balanced ration. Give the birds liberal range or keep them busy working for a part of their food in deep litter. Feed green food freely. Use a little salt to season the mash. File the beaks at point with a flat file, blunt the beak until it shows pink but does not bleed. This will put an immediate check on egg eating and will discourage feather pulling. Provide dark nests.

The Morris White Orpingtons

"THE PROVEN LEADERS"

GET started with them for the coming season. They are winners at the big shows, winners in the egg-laying contests. More points won at Chicago



Prince I, First Cock Madison Sq., Jan. 1, 1916, and Jan. 1, 1917

Coliseum and Madison Square Garden the last two years than by any three of our competitors combined. All thru the five winter months our five pullets now in the egg-laying contest at Leavenworth, Kansas (51 pens competing), ranked either first or second, and led all Orpingtons by over 100 eggs.

The Morris White Orpingtons are the real war-time fowls—combining beauty, meat, and eggs. They have the snow-white color, true Orpington type, heavy bone, great size, and best of all—eggs in winter when they have real value.

We Have Several Hundred Cockerels and Pullets

now nearing maturity that are ready for fall fairs, winter shows, laying contests and breeding pens.

No show too big for The Morris White Orpingtons. Write us, stating what you want, and we will take care of you.

The Morris Poultry Farm

HAROLD RAWNSLEY, Manager

LEBANON, OHIO

SINGLE COMB WHITE LEGHORNS

SPECIAL ANNUAL HALF-PRICE SALE

Four to five-months old Breeding Cockerels now ready for delivery

WRITE FOR PRICES

Yearling Cocks and Hens, Mated Trios, Pens and Yards Also a Few of Our Breeding Yards—just as Mated

A GENERAL CLEAN-UP EVERY YEAR—EVERYTHING at HALF-PRICE

Write for free Illustrated Catalog and Mating List.

MRS. E. B. MARTIN

RANCHO DEL MARTINO

P. O. Box N, Downey, Cal.

LOOK! Baby Chicks, \$11 per 100 up

By PARCEL POST, 97% Live Delivery Guaranteed



Catalog free.

September chicks make March layers and best broilers.	Per 100
Odds and ends.....	\$11.00
S. C. White and S. C. Brown Leghorns.....	12.50
Barred and White Rocks, R. C. and S. C., R. I. Reds, Black Minorcas, Buff Orpingtons, White Wyandottes.....	14.50
Light Brahmas, Buff Rocks, Buff Leghorns.....	16.50
Silver Laced and Columbian Wyandottes, exhibition grade.....	25.00
Black Orpingtons and White Campines.....	20.00
Tom Barron Strain, yearling pullets S. C. White Leghorns. No hen less than 220 eggs. 1000 for sale. Price right.	

NABOB HATCHERIES, GAMBIER, OHIO

A Great Egg Producer is "Oculum"

The liquid germicide so scientifically compounded that 10 drops to the pound of feed destroys worms and germs without injury to the fowls. The merit of "OCULUM" is that it quickly routs diseases like White Diarrhoea, Roup, and Cholera, keeps the flock healthy, saves feed and cuts down labor. The joy of using "OCULUM" is that you get plenty of EGGS, winter and summer, and even during molt. "OCULUM" booklet with expert testimony from every state FREE. Bottles, 50c and \$1; pint, \$2. TRY A BOTTLE. We give money back if not satisfactory. This journal O. K.'s us. TRIAL BOTTLE ONLY 10c.

"OCULUM" CO. Box B SALEM, VA.

Leggett's Columbian Wyandottes

SPECIAL—We are now offering a few fine breeders from all of our matings at one-half their worth. If you want the greatest values, write now. Cockerels and pullets mostly all spoken for. Free circular. H. A. D. LEGGETT & CO., 24 N. Nash Pl. BURLINGTON, VT.

remove some of the wood of this season's growth. Make the cuttings so that there will be one bud below ground and one or two above. Dig a trench, making one side straight up and down. Place the cuttings in trench. Fill trench about half full of dirt. Now tramp as solidly as you would were you setting a post. This is the secret of quick growth of the cuttings. Fill to top with soil, but do not pack this upper soil. Cuttings so planted will take root and make some growth in fall. Next spring they will start off on the jump, and by fall be large fine plants, which can then be set permanently. Late in fall, mulch the cuttings quite heavily. Be sure to do this. If you do not, they will be injured by freezing and thawing and may be thrown out of the ground by the heaving of the soil by frost.

* * *

Go over the bushes of all small fruits and cut out now any diseased branches. Go thru the orchard and note the growth of each tree. If the trees be bearing ones, any limbs to be cut off should now be marked and removed any time after the leaves fall. If young trees, do not do the trimming until next spring. This inspecting each fall while the leaves are on the trees is very important.

See to it that any wounds the trees may have suffered this summer are properly covered by good paint which contains no turpentine.

This is the ideal time to plant and transplant peonies. If you remove a peony clump, be sure to divide the roots when transplanting. Rarely will a peony do well unless so treated in transplanting. There are many of the hardy flowers, vines and bushes which ought to be planted now. I have planted the oriental poppies in the fall and never lost a plant. For years I tried to get a start with these gorgeous bloomers by planting in the spring. I could not get them to live.

* * *

The American Fruit Grower says:

Growing peonies from seed brings pleasure, and often a profit, to the person who will give this work a fair trial. When your peonies are thru blossoming, and are opening their pods, gather their seed and plant about an inch deep in a well prepared seed bed. For the first two years, mulch this bed at seeding time in the fall, and uncover in the spring. Keep them free from weeds. In the latter part of August or the forepart of September of the second year after planting in the soil, dig and plant all the little roots from 6 to 12 inches apart, in rows 30 inches apart. Cultivate and care for them until they bloom, which will be two or three years later. Perhaps you will have some that will tax your patience on account of their tardiness, but be patient until they all bloom.

Choose those that look the best to you and transplant in September. Plant three feet apart in the row and let the rows be four feet apart. You will be surprised with the results of your undertaking. Nature's artist has made no two peonies alike. All are different, and neither pen nor words can describe them.

* * *

I have bought a farm on the eastern shore of Maryland, level ground, sandy clay, and wish you would tell me what trees to plant for best results here. I would like to plant a few of all kinds, also small fruit. Will trees which grow well around Rochester, N. Y., do well here?
Massachusetts.

D. Baker.

If you are going to plant fruit trees for a home supply only, it is all right to plant "a few of every kind." If you are planting a commercial orchard, such a planting would be very unwise. For the home orchard you should plant Henry Clay, Yellow Transparent, Willson Red June, Duchess, Wealthy, Stay-



Imperial Strain White Houdans

Fine Breeding and Show Stock for Sale

from Chicago Coliseum and Madison Square Garden Winners. Won at Madison Square Garden Show, 1917-18: 1st and 3rd Cock, 2nd, 3rd, 4th and 5th Hen, 1st and 2nd Cockerel, 1st, 2nd and 3rd Pullet and 1st Pen.

Imperial Poultry Farm R. F. D. 1 Elizabeth, N. J.

YOUNG'S STRAIN

Single Comb White Leghorns

I HAVE NO OTHER BREEDS

They have won first prizes in every state in the Union and in every country in North and South America. This strain is acknowledged throughout the world as being the Standard for all the Leghorns and the leaders of heavy layers.

Exhibition and Breeding Stock for Sale

SEND FOR CATALOG

D. W. YOUNG Box E-12 MONROE, N. Y.



Make Them Lay

You see that little lantern in the cut on the left side; it does the trick; it **Makes**

Hens Lay. 300 candle power; it makes day out of night. You surely must have read how, by extending the light in the laying house in fall and winter, fowl **Lay More**. Proven fact; system used most everywhere on the Pacific Coast; now being used in the East by poultrymen and state experiment stations. I use this lantern and you will too. Be a live one, up and doing. Eggs will be 75c a dozen soon; you will want to increase output. This simple, powerful 300 candle power light will make them lay more. Write now for descriptive circular. Write plainly, please. DR. J. H. PRUDHOMME, Box A, Thurmont, Md.

Purebred Tom Barron S. C. W. Leghorn Cockerels and Yearling Hens

February-March hatched cockerels..... \$3.00 each
May hatched cockerels..... 2.00 "
Yearling hens (guaranteed age)..... 1.50 "

Cockerel prices advance 25c October 1.

COLEMAN MILES EGG FARM MT. CARROLL, ILL.

1896 WILLIAMS WHITE WYANDOTTES 1918

CHAMPIONS OF 1916-17-18

At Hagerstown 1916 and the last two shows at Madison Square Garden. I won first prize on 25, and 2nd on 3, out of a possible 32 first prize birds. I bred and raised every bird I exhibited. If you want quality, who can furnish better? Send for catalog and prices to the White Wyandotte specialist.

F. B. WILLIAMS Box H Naugatuck, Conn.

Choice Cockerels of the Foremost Winning Strains

BUFF ORPINGTON Cockerels from first cock, 1916 Coliseum show.
S. C. W. LEGHORN Cockerels, Smith's strain, none better in the world.
R. C. ANCONA Cockerels, from first cockerels both Chicago shows, 1917-1918.

These are well-developed birds, carrying the qualities that have made their progenitors winners at America's strongest shows. If you want the best, here it is. Send today for literature and describe your needs.

H. T. WINDSOR, RIDGELAWN, BATAVIA, ILL.

MAMMOTH SUSSEX SALE

After June 1st, Moraine Farm will offer at reduced prices 100 of the breeders that comprised our matings of 1917-18. DON'T miss this chance to get the best at reduced prices. Write today for particulars and catalog describing our matings.

MORAIN FARM Poultry Department, R. R. 16 DAYTON, OHIO

DARK CORNISH

Winners at MADISON SQUARE, CHICAGO and all prominent shows. First cockerel and first cock at Madison Square; also first hen by a customer. Four firsts at Coliseum. Can furnish WINNERS for ANY SHOW.

FLOYD P. SCHUYLER - SAVANNA, ILLINOIS



This 45c Can of BUGBEAR will

- keep red mites off 12 hen roosts all summer.
- keep 100 hens free from lice all summer.
- prevent hen manure from soaking into and sticking to 6 roosting platforms.
- drive all lice and mites away from 24 setting hens.
- make a water-proof and decay-proof paint for the bottoms of 6 outdoor brooders.
- prevent rats and mice from gnawing through wood grain bins and floors.
- positively cure Scaly Leg.
- go farther than 2 gallons of the best liquid lice paint.
- never evaporate, harden or lose its strength.

Sold by poultry supply dealers everywhere.

1/2-lb. can - \$.30
1-lb. can - .45
5-lb. pail - 2.00

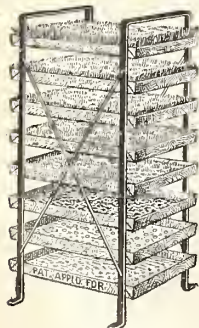
We ship direct if no dealer near you.

Send for free booklet on **BUGBEAR** and its uses. We mail a large sample can upon receipt of 25c and name of your dealer. One application lasts all summer.

The Reilly Company
Dept. E 10
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PLANTS:
Indianapolis—Minneapolis
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Stevens "Evergreen"



OAT SPROUTER

All Metal-Lampless

8 pans 11x15 in. \$3.75
5 " 11x15 in. 3.00
8 " 11x33 in. 7.50
5 " 11x33 in. 5.50

Order direct from this ad and have it ready when you need it, or get our circular.

Agents and dealers wanted

H. A. Stevens & Co.
Box 355 Aurora, Ill.

How to Build Poultry Houses

of all kinds and descriptions. It gives complete plans. How to make feed troughs, nest boxes, water troughs, roosts, dropping boards, brood coops, brooder houses, fattening coops, colony houses, winter and summer houses, etc. Price 50c. **AMERICAN POULTRY JOURNAL PUB. CO.** 623 Plymouth Court Chicago, Illinois

man. These are the best apples of their season for your locality and are named in order of ripening. In peaches, would recommend the following: Mayflower, Red Bird Cling, extra early; Alton Carmen, Champion, Early Elberta, Fitzgerald, early; Captain Ede, Belle of Georgia, J. H. Hale, midsummer; Banner, Sea Eagle Improved, Late Elberta, Late Salway, October Elberta, Krummel October, very late. You will find any of the standard pears suited to your Maryland condition. However, I advise you to make your planting largely of Lincoln. Of course, you will want a few of other sorts. The Lincoln will not blight. At least it has not for me in 20 years, and that is a pretty good test. Make your cherry planting wholly of Early Richmond and Montmorency. In plums you will not have room if you "plant a few of every kind." Use America, Gold, Mammoth Gold, Omaha and a few of the Japanese varieties. In small fruits use the standard varieties. Be sure to make a liberal planting of Royal Purple raspberries. This is a wonderful cropper of large and fine fruit. Will yield more fruit per bush than any other raspberry. Yes, trees and vines produced in New York will be all right for planting in Maryland. You must arrange to keep a few colonies of bees. Be sure to make your start with pure Italian stock. Use the ten-frame, double-wall hive. With such hives the bees winter safely outdoors.

My Golden Bantam sweet corn, heavily fertilized with hen manure, is anything but bantam corn. It is exceedingly large in ear for this variety and of extra good quality.

In this section the potato crop is not so heavy as usual owing to the effect on the vines of the aphids. These pests came early this season and by July 10 many fields were brown and practically dead. I prepared for the enemy. Began spraying with Sulphocide and Cal-Arsenate mixture early. This had the effect of killing the beetles, and I think kept the ants from carrying the aphids to the vines, as the odor of the Sulphocide was distasteful to the ants. Still the vines would have been infested by the aphids if I had not kept busy. I sprayed four times with Black Leaf 40, adding a goodly quantity of Whale Oil soap. This was effective and at this writing (August 1) my late potato vines are as green as in the early summer. I will have a very heavy crop.

I have just moved to a place that has plenty of raspberries, but, unfortunately, they are located where I must build my chicken coop and run. I would like to have your advice as to method of transplanting and care afterward. I have been told that if I cut them down they will grow better and bear more fruit. Is this so? They are a very large, sweet berry and deep red.
John E. O'Brien.
Illinois.

The fowls will not, unless the patch be small, and the fowls closely confined therein, do the vines any harm this fall. As soon as the wood of vines is matured (in early November) cut out all dead wood. Dig up vines and cut live wood back to about six inches of root. Heel in the vines, covering them with, at least, two feet of earth. Do not be afraid of getting in too much earth. You can't do that. Then throw some litter over the top of the mound. Transplant in the spring as early as possible.

Popularity The Test of Merit

Pape's Single Comb Black Minorcas



require but little yard room and inexpensive quarters. They are prolific producers of glorious large white eggs, a most delicious table fowl and win Championship show room honors.

Buying cockerels now and having them double in value is a good investment.

Am offering Superb quality in partly matured chix, very promising cockerels, layers, breeders, and pens at introductory prices. Our 1918 hatched and yearling show stock for Fairs is especially fine. Every consumer should become a producer today. What can we do for you?

CHARLES G. PAPE Box B 74. FORT WAYNE, IND.

"SUNLIGHT"
POULTRY FARM S-C-W LEGHORNS

250

Cockerels

S. C. Wh. Leghorns

3 to 5 months old \$1.25 and up.

TRIOS AND PENS

Catalog free

SUNLIGHT POULTRY FARM
Box A LYNCHBURG, OHIO

Funk Egg Farm Cockerels

S. C. W. L. TOM BARRON 1918 hatched males from my full blood pens, ready for delivery after September 1. All these birds are from HIGH EGG RECORD TRAP-NESTED females. Prices \$2.50 up. Write for free booklet giving prices and description for fall breeding stock.

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LYLE W. FUNK, Owner

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Aluminum, numbered to suit, with large raised figures. Postpaid 100-60c, 50-35c, 25-20c, 12-15c. Initials extra, 10c per letter per 100; 50 or less 5c. More than one initial with cut figures. Circular free, giving price on Superior and Pigeon Bands and Rabbit Ear Markers. Sample for stamp.
T. CADWALLADER Box 802 Salem, Ohio

White Wyandottes

A few good ones left for our September sale.

Write your wants.

MILLS CREEK POULTRY FARM, Eagleville, Ohio
W. J. FORREST, Prop.

Brookside White Wyandottes

American Exhibition Breeders' Egg-Laying Contest and also Missouri Egg-Laying Contest Winners. Cockerels from stock related to these winners \$3 and up. No pullets for sale. Catalog free.
Brookside Farm, G. W. Schottman, Prop. Montrose, Ill.

White Orpingtons

Champions of New England. Winners at Boston and largest shows past five seasons. Fine show stock and breeders for sale. Send for list.
JOHN R. JOHNSON, South Wodham, Maine.

Will you please tell me if it would be all right to plant apple trees here in the fall or is it too far north? When is the best time to plant currant, gooseberry, raspberry and blackberry vines?
J. H. Crone.
Minnesota.

It would be unsafe to plant apple trees and raspberry and blackberry bushes in your state in the fall. You can safely plant currant and gooseberry bushes in the fall. Be sure to mulch the bushes well, so as to protect the roots. It will be unnecessary to cover the tops. You can secure your apple trees this fall and heel them in if you so desire.

* * *

Referring to your reference in July issue to use of slug shot on cucumbers, leads me to think you may know something of the use of nitrate of soda as a fertilizer. The directions say, use a teaspoonful to each gallon of water. I apply about a quart of this solution to a hill of cucumbers, or to 6 to 8 feet of a row of peas or a pint to a cabbage plant. Now, at this rate, about how often should the solution be applied? This point my information is very meager on. I have used tobacco dust very successfully for aphids. This dust or slug shot, either one, can be diluted with lime and made to go farther.
A. W. Beale.
Iowa.

I have used nitrate of soda as per your plan for many years. As a rule, I give the vegetable plants about four applications a season. Of course, this cannot be given as a set rule, for plants and seasons differ in needed treatment and growth development. I have found that when nitrate of soda is properly applied it is a wonderful stimulant to plants. If you want to greatly increase your pea yield apply this fertilizer as per your plan to the vines when they are well up again in about two weeks, and again just as the pods begin to set. You will be surprised the way the pods will grow and fill out. Great care must be observed in the use of nitrate of soda. The safest way to use it in the home garden is to dilute it in water, as stated by my correspondent.

* * *

What is the best thing to do for cabbage worms? Is there anything that will keep these butterflies away? Will arsenate of lead do or is it too strong? It is almost out of the question to get Paris Green any more here and London Purple is out of stock all the time.
William Cax.
Iowa.

Hammond's slug shot is the best and safest thing to use in keeping cabbage free from worms. It is death to the worms and non-injurious to human beings. I know of no way to keep the butterflies from depositing their eggs on the cabbage plants. But so long as the worms can be killed by the use of slug shot, the laying of the eggs is of no consequence.

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ROBADEL POULTRY FARM A. C. ROBERTSON, Owner COS COB, CONN.



First Madison Square Garden cockerel and pullet, January, 1918. Bred and owned by Morris Poultry Farm, Lebanon, Ohio.

In answer to Calvin Boyd, Indiana: Cox Orange is an apple of high quality but rather difficult to produce profitably. George Powell of New York is growing them successfully and has been shipping them to England, receiving big returns thereon.

* * *

I noticed in a recent issue of A. P. J. you advised a correspondent to stop off in the Piedmont Valley of Virginia, on his way to

Florida, and to investigate the farm and fruit lands of the Virginia section. What part of Virginia is this? What kind of land? Why is it cheaper than here in Indiana? Here in Randolph and Delaware counties, land sells for from \$100 to \$250 per acre. I am now a renter and want to buy somewhere. I have often heard of the Shenandoah Valley of Virginia. I want to buy level land for general farming and where the winter or feeding season is not quite so long as it is here. Would like to have you tell me what you can about Virginia, at least the level part of it. What

is the price of land there and what are some of the drawbacks?
Indiana. Wm. M. Cline.

There are a number of reasons why land is cheaper in Virginia than in Indiana and the Central West. The tendency has been to go West. Another reason is that after the war of the rebellion Virginia was in a bad way. Her plantations were ruined. She was without men and capital to reconstruct her

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Desk B

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Madison Square Winners. Year after year they sweep the show. Eggs, Show and Breeding Stock for sale. Send a stamp for either Partridge Rock or Turkey catalog.

BRONZE TURKEYS

BIRD BROTHERS

BOX C

MEYERSDALE, PA.

farms. In the valley of Virginia and in the Piedmont section of the state are lands as rich and productive as the best lands in the Central West. These Virginia lands are today producing more grass per acre than the best grass lands of the West. The corn yield is as heavy. Virginia is not surpassed or equaled as a live stock state. The climate is delightful in the Piedmont and Valley of Virginia sections. The water is abundant and pure. The timber for home and farm use is plentiful. I think the people of these two sections of Virginia live better than do the people of any other section in all the United States. There is a lot of poor land in Virginia—poor from an agricultural standpoint. The good land of Virginia cannot be bought for low prices. Good land, wherever it is located, demands a good price. Yet land as good as the best in the Central West can be bought for half the money in Virginia.

* * *

Would like your advice as to what is affecting my grapes. Some of them show a purple spot and burst open on that side, exposing the seeds.

R. T. Scaife.

Illinois.

There are two kinds of insects which cause worms in the berry of the grape. One of these is the larva of a moth. This worm is about one-half inch long, of a bluish black color, that spins a web and lets itself to the ground. The other is the grub of the curculio. Thoro spraying with arsenate of lead will effectively control both insects, altho the curculio can be more effectively controlled by constant cultivation of the soil about the base of the vines.

* * *

Every season I have several letters asking me how to treat beans and peas to keep them free from insects when held over for winter use or for seed. I treat my beans and peas and, in fact, all seeds with carbon bisulphide. This is a heavy volatile liquid. The fumes are very inflammable and caution must be taken to keep the liquid away from a flame or even a lighted pipe. The fumes of the liquid are heavier than air, so the liquid should be placed in a shallow dish on top of the seed being treated. I put the seed in an airtight box, which I had made for this special purpose. To each peck of seed I use one ounce of the liquid. This kills any insect there may be in the seed, also any insect eggs. The seeds thus treated germinate when planted as well as untreated seed. Neither does this treatment spoil any grain or vegetable for eating. Any box may be used in treating seeds, but care should be taken to have it as near airtight as possible.

- In answer to P. C. McNamara, Ohio:
1. Good farms, with good improvements, can be bought in Southern Minnesota for \$75 to \$175 an acre. This land is very productive.
 2. Northern Missouri is a very rich farming section. Great crops of corn, hay and all grains are raised. Land there brings \$100 to \$200 an acre for well improved farms. Of course, now and then a farm can be bought for less money.
 3. The cut-over lands of Wisconsin are being purchased at a rapid rate by Iowa farmers. A man sells his Iowa farm for \$250 to \$300 an acre. He goes

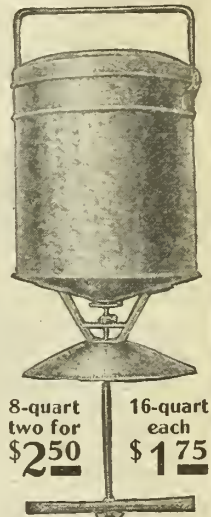
to Wisconsin and gets a farm for himself and one for each of his boys—and has money left. Those cut-over lands are wonderfully productive in grass, potatoes and such crops. Of course, it means a pioneer life for the men who go there and make farms of this new, unimproved, wild land. But men will prosper there, I am sure. These lands are selling from \$10 to \$75 an acre.

4. You say in your letter: "I have 80 acres of as good land as there is in Ohio. I can sell it for a big price." You have not asked me for advice as to selling this home farm and going out into a new county to make a home. But

Just What You Will Need This Winter

This is the FAULTLESS Automatic Feeder

All you have to do is to fill the can of this feeder with wheat, corn, oats or any other kind of feed, either mixed or separate. When the chickens are hungry they pick at the cross bar; this causes some feed to drop to the ground where the chickens can pick it up. No feed spoils or is eaten by rats or sparrows. **You can save enough feed in one month to pay for these feeders.** Besides the saving of fuel, you save work.



Here Are Our Low Prices

This feeder holds 1/2 bushel of feed. It is made of heavy rust-proof material. It weighs six pounds packed for shipping. Order by No. 153.



8-quart two for \$2.50
16-quart each \$1.75

And What is More, we will send you two 8-quart feeders, same style as above, both for \$2.50. These two feeders weigh nine pounds and will not be sold singly. Order by No. 152.

Here is the Feeder for Your Low Coop

Or for Your Baby Chicks



It holds five quarts, will feed any kind of feed, either mixed or separate. It is built on the principle of the large FAULTLESS Feeder and is furnished complete with brackets, which can be attached to the wall or side of a coop at proper height. This feeder is beautifully painted and with ordinary care it will last forever. It is guaranteed to feed your stock perfectly from the time the chicks are able to eat until ready for the ax. We sell this feeder for \$1.00. It weighs 3 1/2 pounds when packed. Get one today and feed your chickens right. Order by No. 151.

We carry a full line of poultry appliances and remedies. We also manufacture the well known Simplex Genuine Feather Brooders and Hovers—both heated and fireless. Send for our CATALOG; it will interest you.

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Eggs from all prize matings half price after June 1st. Selected pens at two-thirds price.

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Well-grown Cockerels and Pullets for the early Fall Shows—all fine specimens. Also fine Breeding Birds from our 1918 pens.

Write fully what you want. We'll give your letter personal attention.

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STARKS FARM Box 100 STARKS, WIS.

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Blue Ribbon Laying Mash

to your growing pullets.

It furnishes the materials for development and growth. Matures them quickly and starts them laying early.

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Ask your dealer about

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If he can't supply you, write for sample and circular.

GLOBE ELEVATOR COMPANY
25 Seneca Street Buffalo, N. Y.



I cannot resist the temptation to tender advice. Why sell the home place, which you say you have lived upon for nearly 35 years? Why, at your age, set the door against peace and plenty and go out in search of a new home, which can never be as dear to you and give you the comforts your present home is and does? Why, man, you are living in the Garden of Eden! "As good a farm as there is in Ohio!" Why, that means as good a farm as there is in all the world. Unless there is some special, important reason for so doing, do not leave this farm—this home. It's yours. It's paid for. You have put the best of your years into the making of it. It ought to be very dear to you. Don't leave it!

* * *

I have upon demand surrendered a number of magnificent walnut trees to the government. It was hard to give up these trees. I have known them ever since I was a child—played beneath their branches and gathered nuts from them for all these years. "Damn the Kaiser!"

* * *

In answer to J. A. Kearns, Kansas: Yes, there is much good farming land in Columbia County, N. Y. The principal crops are corn, rye, buckwheat, potatoes and fruit. Dairying is a leading industry. The county is most favorably situated for good transportation to large markets within reach of the farmers. Farms can be bought for from \$25 to \$300 an acre.

* * *

Our Progressive strawberry plants are yielding heavily now and we are having strawberry shortcake daily. These so-called everbearing plants are all right for a home supply, altho I would not

discard the bed of spring-producing sorts. I do not think the everbearers will ever be a success commercially.

* * *

We will dry a large quantity of sweet corn this month. To our taste it is far superior to canned corn.

**-20% More Birds-
Quality Better Than Ever**

At Wilburtha, you'll find some of the finest youngsters that ever graced a range—the best we've ever raised.

Wh. Plymouth Rocks

Wh. Leghorns S. C. R. I. Reds

Many pullets are already laying and we have cockerels finished for the Fall Shows. There are old birds, too, in good feather and with the quality to win.

Write us your needs—today.

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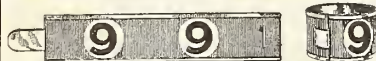


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Book your orders for winter show birds now.

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2000 young birds ready for the fall shows. Sixty-four page art catalog free.

CHAS. V. KEELER

R. F. D. 11

WINAMAC, INDIANA

Readers Open Forum

Information at the State Fair.

FAIR-TIME is drawing near, and no doubt thousands of our readers will be visiting the leading state and county fairs. Much of the information to be gleaned on these occasions should prove of practical value. When one goes to the fair he probably has several objects in view—a holiday, a good time and some specific purpose that has to do with the conduct of his business of farming. In connection with this latter object we desire to direct attention to the efforts made by exhibitors to bring prominently to your notice material and apparatus that will be of practical benefit to you.

Do you fully realize what these exhibitors bring to the fair? They bring the very latest improvements—the most efficient machinery or material that ingenuity can devise; and it is up to you to study carefully what they have to offer, because of the beneficial returns to you personally. If you are going to buy a farm implement of any kind, you will see many different makes. They will be carefully explained to you, and it is wise to make comparison. Machinery and implements are capable of thorough demonstration at the fair; one learns of them by seeing them, to better advantage than by reading; but there are other products that are not susceptible of demonstration—such as stock foods, fertilizers, cements, dips, etc. These are subjects that are worthy of further study at your leisure.

This leads us to a consideration of the printed matter distributed at fairs. We often wonder when we have seen a man accept a circular issued by a reputable house whether he appreciates what he is receiving. Circulars issued by reliable people are not issued to mislead, in any sense of the word. They present to the reader, in a practical manner, a great deal of information which, if he bought it in text-books, he would have to pay for liberally.

Such booklets and circulars often represent the very latest word in scientific research. They are, for the most part, written clearly and to the point, for practical results. Oftentimes, if one reads them carefully, he will receive information that means many dollars in his pocket in the course of a year. It is the wise man who, when he receives circulars descriptive of material in which he is interested and that which he can use, preserves them and reads them at his leisure. He will be amply repaid for doing this.

Take the literature you receive at the fair home with you, read it carefully—and profit by it!

Michigan.

P. D. Co.

Better Opportunity for Poultrymen.

I have been a reader of A. P. J. for a long while and enjoy every department in it. I raise poultry on a small scale, work in the city, and produce poultry and eggs in the country. I enjoy my work with poultry very much

and am planning matters so that when I am no longer able to earn my living at my regular work, I will have this poultry work under way and can fall back on it.

I have a fine egg trade, selling the eggs right here at home, so have no expense for marketing them. I have a fine flock of layers this year, and as nice looking youngsters as I have seen for a long while. I think there will be a better opportunity for poultrymen thru the southern section of the country than ever before within the next few years.

Georgia.

Luther Roberts.

New Orchard Ladder.

A new orchard ladder invented by Conradin Jecklin, of Lowell, Wis., is somewhat similar to a tripod in design,



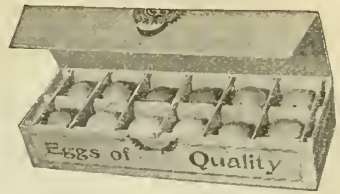
Orchard ladder in use trimming outer branches of a tree. Notice slope of ground, no branches touched by the ladder, which is supported solely by the extended brace standard with no stay chains attached. (See Readers' Open Forum.)

with the upper portion of the ladder narrowed to permit of its insertion between branches, and with the base of the ladder broadened to give it a firm footing. An extensible leg makes it possible to use the ladder on a side hill where it would be difficult or impossible to use the ordinary ladder. The ladder stands independently, despite any incline of the ground, the third leg or prop member also being extensible.

Washington, D. C. Lester Sargent.

Wants Southern Department.

For many years I have been a reader and booster for the AMERICAN POULTRY JOURNAL. Ten years ago we had very few large farms devoted to thoroughbred poultry down here and no doubt a portion of your JOURNAL could not be profitably given Southern poultry interests. Now it is different. Here in Louisiana especially, we have a number of large places and countless backlotterers who



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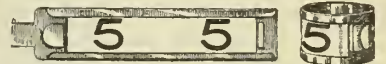
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Brown Anconas

A New Variety

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124 pages. No matter what question arises, this book gives the answer in a few words. Questions for the fancier; about feeding, correct rearing of chicks, what and how to build, diseases, incubation, breeding turkeys, ducks, geese, etc. Paper, 50¢; cloth, 75¢. American Poultry Journal Pub. Co. 523 Plymouth Court, Chicago, Illinois

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Arlington Reds

Single comb Rhode Island Reds only. Second display New York State Fair, 1917; Third display Madison Sq. Garden, 1918. John E. Mack, - Box B, Arlington, Dutchess Co., N. Y.

HARNLY'S White Orpingtons

SPECIAL BARGAINS

EGGS, CHICKS AND BREEDERS

Mary K. Harnly 2301 Elisha Ave. Zion City, Ill.

MIDDLEMARCH CHAMPION BUFF AND BLACK ORPINGTON

Young stock ready for the Fairs and Early Shows. JESSIE F. GORDON, Box 535, Spring Valley, Minn.

Golden Wyandottes

Winners at New York, Chicago and San Francisco. Young and old stock for exhibition. Prices reasonable.

J. S. PENNINGTON, Box A, PLAINFIELD, ILLINOIS

are raising the very finest types of fowls that can and do hold their own against the best Eastern and Northern breeders can produce.

Give us articles such as Maurice Decker and James B. Morman write—articles that are written by common-sense men who have flocks large enough to give real flock experiences, who feed and raise their birds with real common-sense skill. We have the ideal poultry country down here and it is time for a real live journal such as you edit to get busy in this direction.

Trusting that Southern breeders may have the pleasure of seeing a Southern Department devoted to their interests in an early issue and wishing you and the AMERICAN every success.

Louisiana.

Richard L. Camp.

Change of Heart for Poultry Editors.

I have been very busy disposing of everything pertaining to poultry keeping and in getting started in other work. An opportunity presented itself to dispose of the farm advantageously and I thought it wise to discontinue this line of work for the time being. However, I intend to go back into poultry keeping later on, probably in the Middle West or the Eastern part of the country. Conditions here remain about the same. There has been no great increase in the price of eggs nor any material reduction in the price of feeds. I continue to take an interest in the business and as I have more time to devote to furthering the business now than formerly, I intend to do all I can along that line. The difficulty is in getting facts before the public, as it is customary to have half of an article deleted by the editor. I notice, however, that some of these editors are undergoing a change of heart, as they are publishing matter now that would never have been considered a year ago. A whole lot of the editors of poultry papers used to mistake desires for realities and spend their time in idle dreaming, but it seems that some of these visionaries have had their bubbles burst by the pressure of conditions and they are now lamenting the fact that the government doesn't step in and do something that will permit them to go back to their practices of weaving fantastic theories about things not entirely familiar to them.

Perhaps those engaged in poultry keeping are not aware of the indifference with which the rest of the people seem to regard their trials and tribulations, the difficulty of their lot giving them, perhaps, an undue idea of the importance of their work. Here in this city, ships are the one thing of importance and thus crowding from the minds of the people all consideration for those not engaged in manufacturing them. Most of these people are drawing salaries in one day equal to the poultryman's monthly wage. E. R. Johnson.

Australian Winners.

I am forwarding photos of the Black Orpingtons that finished first and sec-



Winner of single test 1917-1918. 326 eggs. (See Australian Winners, Readers' Open Forum.)

ond in the Black Orpington section and the White Leghorn that finished second in the Leghorn section at the Bendigo single test competition. H. B. James, "White Lodge" Kew, Australia, has already sent you a photo of his winning White Leghorn at the competition.



Second in Single Test 1917-1918. 320 eggs. (See Australian Winners, Readers' Open Forum.)

The pedigrees of the Black Orpingtons are similar, being full sisters hatched from the same hen.

Pedigree.

No. 111	326 eggs	Dam,	270
		Selected hen from world's Record Pen	
No. 110	320 eggs	Sire,	283
		Record Pen	
		1,596 eggs	292

The pedigree of the White Leghorn I cannot obtain. Trusting these will be of interest to your readers.

Australia.

E. J. Hardy.

Orpingtons

**BUFF
WHITE
BLACK**

Special Sale of big 7-pound Breeding Cockerels this month at \$8 each. 56 First Prize State Fair Winners sold last fall. Still richer quality to offer now in splendid condition and training. Big massive Cockerels approaching perfection in color at \$15 and \$25. Superior Exhibition Pens in old or young for State Fairs at \$50 and \$75. These are bred to lay Show Birds. Wire if necessary. Liberty Bonds or War Saving Stamps accepted. Buy Byers Orpingtons. It's absolutely safe.

C. S. BYERS

(Active Orpington Specialist 18 Years)

Hazelrigg, Indiana

Care of Fowls During Molt.

The time is now at hand when fowls are passing thru a critical period. Ragged and ill-appearing birds and loose feathers will be much in evidence from now until cold weather sets in. The molting process is a severe strain on the fowls and it is essential that they have the best of care at this time to prevent trouble later on. The most robust bird can be practically ruined by improper care at molting time.

Those who raise exhibition birds appreciate the fact that shade is essential to the show bird. Mottled and twisted feathers and feathers with shaded tips develop during the molting period and are usually attributed to a lack of protection from the hot sun. When any such feathers make their appearance, they should be pulled immediately so a new feather to take the place of the defective one will have an opportunity to come in. Especially do fowls of white plumage need shade as a protection during the molting season. The white plumage will usually come in free from brassiness if this protection is taken.

Fowls should never be confined in bare runs, but this is especially true at molting time. Both shade and green food should be plentifully supplied at this time. If there is an absence of shade, shelters should be provided. When the new feathers are coming in and the sap in them, the sun can do great harm, especially to the white-feathered varieties.

The ration of the molting fowl should have due consideration. It should not be so poorly balanced as to produce fat instead of feathers. Wheat and oats have always been considered the best grains to feed at this time, but as wheat cannot be used for poultry feed, we must substitute. Barley and oats will serve the purpose, and more oats should be fed in place of the wheat. It is not advisable to feed too much corn at this time. Sunflower seed is a valuable addition to the grain ration during the molt and should form about one-twenty-fifth part of it, as it tends to bring out the gloss in the plumage.

It is not advisable that the hens keep up heavy egg production while in molt. The molting process is a severe tax on the bird and no effort should be made to keep up laying at this time. Withhold all stimulating food and substitute such foods as help to make feathers. Animal food and good mashers are desirable, but should not be overdone. A mash consisting of two parts bran, two

parts middlings, one part cornmeal and one-tenth part each good beef scrap and linseed meal is good to feed at this time. Buttermilk or skimmed milk when obtainable at a reasonable price should be used in mixing the mash. Stir in fresh pulverized charcoal and feed the mash once a day.

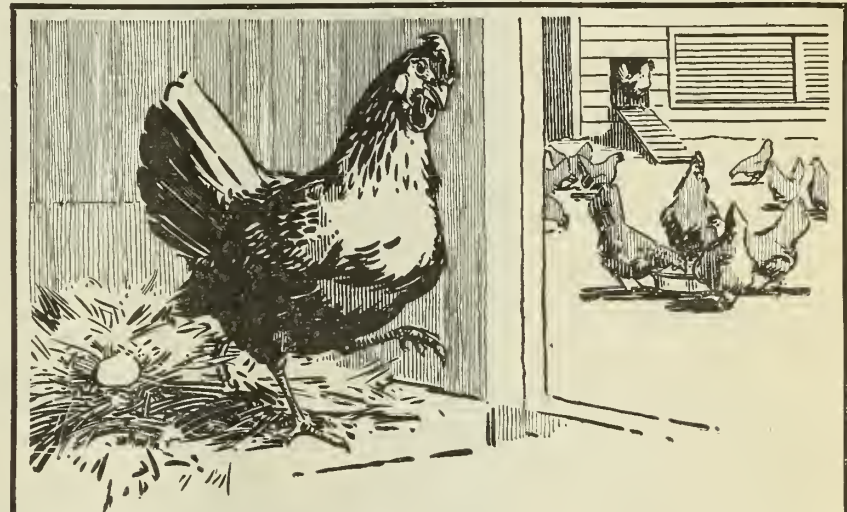
The males and females should not be allowed to run together during molt. Separate sexes as soon as breeding season is over and do not allow together until the birds have their new coat of feathers. Do not coop either males or females in too limited quarters. They need plenty of room for exercise.

The molting period can be controlled to a considerable extent. Continuous heavy feeding will delay molting a few weeks. On the other hand, scanty rations will cause the fowls to lose flesh and cause the feathers to ripen and drop out quickly. If it is desired to have the birds molt early,

give them short rations for about two weeks and then gradually put them back on full rations again.

Indiana. Otto E. Hackman.

Stop Hatching Weak Chicks
 With Cheap Incubators
 Remember, it is not how many you hatch that counts, but how many you raise. A Queen costs but little more, and the extra chicks that live and grow soon pay the difference.
Queen Incubators
 Hatch Chicks That Live and Grow
 Built of genuine California Redwood. Redwood does not absorb the odor from the hatching eggs. Cheaper woods, and pasteboard lining in iron and tin machines, retain the odors to weaken and kill the hatching chicks.
 The Queen is accurately regulated—taking care of temperature variation of 70 degrees without danger. Not cheap, but cheap in the long run. Catalog free.
Queen Incubator Co. Lincoln, Nebr.

How to make 'em produce eggs!

EVERY hen is worth her weight in real cash these days — high priced eggs are here to stay for many years; the demand for eggs is growing daily and every hen must be made to do her part.

Pullets are frequently sluggish; so many of them wait till midwinter or early spring to lay—push them along, make them lay early while the top market prices rules. If they were hatched late bring them on faster to early fall maturity. *Read this letter:—*

Dear Sir:—
 Princeton, N. J., January 24, 1917.
 I have on hand your letter of Jan. 22nd, requesting egg records of pens of birds which were not given Sloan's Liniment. The following will give you an idea of the difference of egg production in pens in the same house as those which were treated with the liniment.

Pen No. 2.	75 W. Leghorns, Jan. 1, 1917,	10 eggs
" "	" " " " " 8, " "	17 "
" "	" " " " " 15, " "	20 "
Pen No. 3.	65 W. Leghorns, Jan. 1, 1917,	9 "
" "	" " " " " 8, " "	10 "
" "	" " " " " 15, " "	17 "

Since this date (Jan. 15, 1917) Pen No. 2 is producing 46 eggs per day, and Pen No. 3 is producing 37 eggs per day. I started giving Sloan's Liniment on Jan. 17. I think this speaks well for the treatment. As to the cost of the additional labor and expense to try this treatment is as follows:

Sloan's Liniment	4 bottles	\$4.00
Labor	15 minutes	.15
Profits		\$4.15
46 additional eggs per day		
Figuring one week 7x46--322 at .05--\$16.10--\$4.15--\$11.95		

I am now trying this liniment on my breeders and I have noticed that their combs are brightening up and seem to have taken on a new life, I will let you know the results of this treatment. I think this covers the subject very thoroughly and I certainly appreciate your kindness in suggesting the experiment.
 Very truly yours, LIVINGSTON SWENTZEL.

Here's the way to do it—Read carefully

For every ten layers that you wish to get in shape, pullets or hens, give 20 drops of Sloan's Liniment mixed with one pint of moist mash every day for three days and then give the same dose twice a week throughout the year.

For growing youngsters, give 10 drops of Sloan's Liniment to ten youngsters in half a pint of moist mash twice a week only. Put five drops of Sloan's Liniment in every quart of drinking water.

Purchase a bottle of Sloan's Liniment from your nearest dealer. The small size contains enough to last ten birds two months or more. The large size contains 18 ounces or six times the small size. It's wise economy. One bottle will prove its profitableness and the many other uses you will find for Sloan's Liniment in the household will warrant your having a bottle on hand at all times.

NOTE—You will not find these special poultry directions in the circular with the bottle, so keep this advertisement.



"Lady Blackburn." 330 eggs in 365 days. (See Australian Winners, Readers' Open Forum.)

A. P. A. Convention.

(Continued from Page 767)

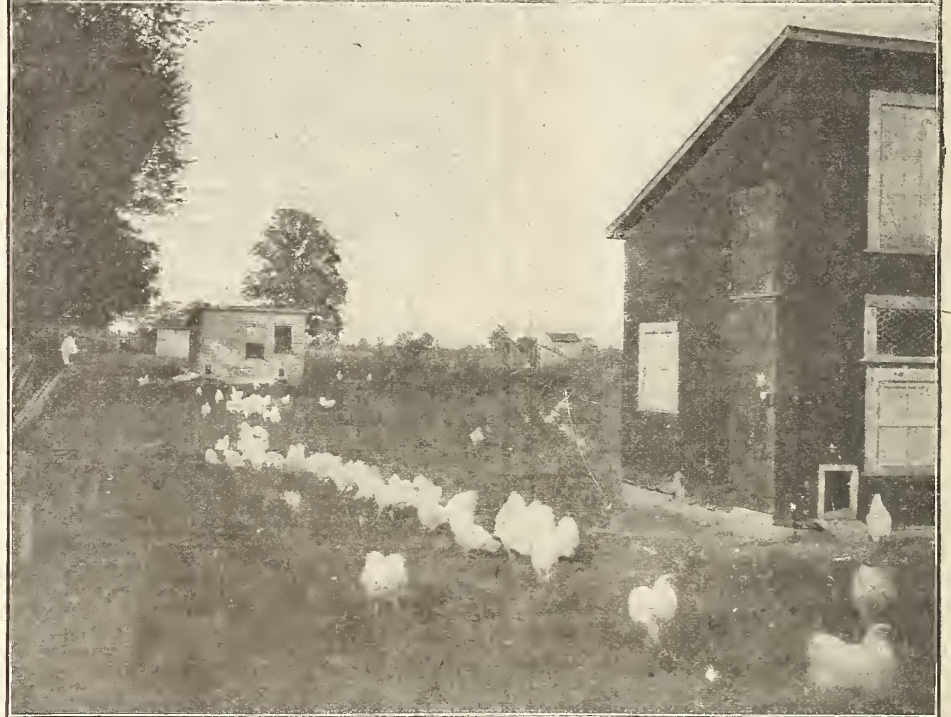
Leghorn breeders of this country and, we believe, should be granted at the very earliest moment. The Barred Plymouth Rock breeders should also have this color clause inserted in the Standard and it will undoubtedly be acted upon at the next annual meeting, and men who are opposed to it are only standing in the way of progress. These classes have become Standard in all of the leading shows of the United States and we compliment Mr. Tormohlen and his progressive club in advocating this much needed improvement.

The Blue Plymouth Rock breeders presented a petition asking for admission of their variety to the Standard, together with a copy of the proposed Standard. This Standard calls for Plymouth Rock shape and Blue Andalusian color, with the usual disqualifications that cover other members of the Plymouth Rock family. Undoubtedly this petition will be acted upon favorably at the next annual meeting.

THE BABY CHICK SECTION.

The writer spent considerable time with the baby chick men and I think I have a better inside knowledge of what these men are doing and what they intend to do than ever before. In fact, I am glad of this opportunity to put myself on record in regard to the baby chick business, as I was one of the many who condemned the business in the first place, telling the boys, some of them who have since made thousands of dollars out of the business, that I did not believe it could succeed; that I felt they were only building a monument that would fall down and destroy them. An open confession is always good for anyone, so I am making it at this time and take my hat off to the boys who have made a success of this branch of poultry culture. I really believe they are today doing more business from the dollars and cents standpoint, than any other one branch, except the market poultry that is gathered in small quantities from immense fields, and now that the United States postal authorities have granted them the privilege of shipping chicks by parcel post, they are even promising to go farther and insure the safe delivery of their shipments.

This branch of poultry culture is bound to be one of the big interests and an industry where men with good judgment and capital can make safe investments with every reasonable assurance of earning fair interest on their investment. While the plants as they are operated today seem enormous, there is no doubt that within a short time the largest we have any record of will look small in comparison to what we will find in the near future.



A few of the 5,000 Regal White Wyandotte chicks being raised under ideal conditions on the farm of John S. Martin, Port Dover, Canada.

Conforming to the request of our postal authorities that some standard size shipping boxes be adopted, the following sizes were agreed upon: for 12 chicks, a box 6x8x5 in.; for 25 chicks, 11x9x5½ in.; for 50 chicks, 18x11x5½ in.; for 100 chicks, 11x18x5½ in. It was further recommended that all 100-chick boxes have four cells and all boxes less than 100 at least two cells. This information is given thru the AMERICAN POULTRY JOURNAL at this time for the benefit of the paper box manufacturers and it is well to make note of it, because it is very evident to the writer that the business will multiply in 1919 over that

of former years. All purchasers of baby chicks will be interested to learn that the Baby Chick Association has decided to pay postage on all shipments by parcel post, so that much of the correspondence that has been conducted in the past in reference to the payment, charge of postage, will be eliminated and the advertised price of chicks will include the postage.

The incubator and brooder manufacturers held a very interesting session and, like the American Poultry Association, did a lot of constructive work. It was believed for many years that men who were interested along the same lines

and who were investing a lot of money in the manufacturing and distributing of incubators and brooders could give better service to their patrons by working independently; in fact, each fellow seemed to feel that what he knew about the business should be his own personal asset and not be given to any other manufacturer. They have finally awakened to the fact that an exchange of ideas and discussion of problems that are constantly confronting them in the general line of work, especially in improvements in the incubators and brooders, is of great benefit.

The report of the secretary of the poultry judges section showed that this departmental was in the very best financial condition, with sufficient money to go ahead. In a short time it is going to issue a booklet with halftone illustrations of all of the members, and a short paragraph giving some facts in regard to the judge's ability, list of exhibitions where he has served as an expert, etc. It will be further suggested that as near as possible the association give preference to these recognized judges in making up its list for the season of 1919.

The work of editing this book has been turned over to D. E. Hale, of Chicago, and copies of it, together with constitution and by-laws of the association, may be secured from him or from O. L. McCord, Peoria, Ill., president; or Geo. W. Hackett, Kansas City, Mo., secretary-treasurer.

Just before adjournment a resolution was offered by Henry P. Schwab, of Rochester, N. Y., asking that the American Poultry Association, in convention

assembled, go on record as calling this the Philander Williams Memorial meeting of the American Poultry Association. This resolution was unanimously adopted.

POULTRY DISPLAYS AT AGRICULTURAL FAIRS IN WAR TIME.

Prepared by the Animal Husbandry Division, United States Department of Agriculture.

THERE are three great general agencies for the development of the poultry industry. Named in the order of their origin and described in single terms, they are: the show, the press, and the platform.

The first exclusive poultry show in America was held at Boston in 1849. Before it there were displays of poultry at agricultural fairs; after it the poultry departments became one of the big attractions at many fairs, and special poultry shows became numerous. For some twenty years then exhibitions of poultry were the principal factor in the development of interest in the improvement of poultry.

About 1870 the first poultry journals appeared, and about 1900 the organized educational movement began. As the beginnings of the modern poultry show are found in the occasional exhibits at the early fairs, the beginnings of poultry journalism are found in occasional articles in the agricultural papers, and

the beginnings of educational poultry work in the occasional essays and addresses on poultry subjects given before agricultural societies or published in their proceedings.

It was not by chance that the shows came first: *it was because they are fundamental.* The beginning of the extension of interest in poultry in those who were not born with it comes when one who has improved poultry shows it to the public under conditions that challenge comparison with other poultry. Poultry journals were established both to give the news of such events, when reports of shows were demanded, and to disseminate knowledge of the ways and means of improving poultry.

War conditions do not change the nature of the relations of the agencies for the promotion of interest in poultry, but do disturb their operation, and tend to upset their natural equilibrium. One of the first effects is interference with the holding of exhibitions. Difficulties of transportation reduce the exhibits and the attendance at shows. Efforts of the managers to overcome such difficulties raise the question of the status of the poultry show in war-time: Is it essential?

If poultry production is to be increased, or even generally maintained, poultry shows must be continued, multiplied and improved. To discontinue them is to deprive the other agencies for reaching the public and attracting its attention of a considerable part of their efficiency. War conditions and the necessity for increased production to meet war-time demands cannot wait on experiment readjustments of factors which

ANDREWS

EFFICIENCY KOOP & KOOP DE LUXE

"The Koops Without a Nail"

YOU can't afford to take a chance on heavy, clumsy coops that nine times out of ten crumple the feathers and bruise the combs of prize birds. Every way you figure it, these Andrews Koops save money, time and labor. At the Poultry Show they can be knocked down and stored in little space.

To encourage poultrymen everywhere to exhibit at the shows, Mr. Andrews has maintained the low "before-war" prices—the first cost being the last cost, as they can be used over and over again. They are light and cut express charges in half. No hammer—no nails. Can be put together in a minute and come knocked down.



EFFICIENCY KOOP
(Recommended for shipping breeding birds)

KOOP DELUXE
(Recommended for shipping exhibition birds)

Sizes	Dimensions	Price per 1/2 doz.	Sizes	Dimensions	Price per 1/2 doz.
Pet Pigeons, Bantams, etc.	22" x 13" x 12	\$3.00	Pet Size	22" x 13" x 12	\$5.40
Single, 1 to 3 birds	22" x 13" x 24	3.30	Single Size	22" x 13" x 30	6.60
Double, 2 to 4 birds	22" x 19" x 24	4.50	Double Size	22" x 19" x 30	8.70
Pen, 5 to 8 birds	22" x 23" x 24	5.10	Pen Size	22" x 23" x 30	9.90

Other accessories in the famous Dollar Making Line include Egg Trays, Parcel Post Butter Boxes, Irrigation Roosts, Egg Carriers, Baby Chick Carriers, etc.—each a standard of its kind.

In ordering goods allow a month or two for delivery under present congested conditions. Where embargoes preclude freight shipments goods will be sent express or parcel post.

We pay freight charges on all shipments of \$10.00 or over. On smaller orders enclose transportation charges, otherwise goods will be sent express collect. Address Dept. A.

THE O.B. ANDREWS COMPANY--CHATTANOOGA, TENN.
The World's Largest Poultry Specialty Manufacturers

Shoemaker's Poultry Book and Almanac for 1918

Send for it NOW!



The book has about 200 pages, with many colored plates of fowls true to life. Tells all about chickens, their cost, their care, and diseases and remedies.



The Globe

It also tells all about Incubators, their prices and operation. All about poultry houses and how to build them. It's an encyclopedia of chicken. You need it. Only 15 cents. Your money back if not satisfied.

Still Selling Eggs at Half Price

If you are going to be in the market for breeding stock you should place your order now in order to get advantage of this season's prices, as breeding stock is bound to be higher.

C. C. SHOEMAKER, Box 605, FREEPORT, ILL.

POULTRY BANDS

Pigeon Bands—Nest Tags
All goods guaranteed to be just as represented.
ALUMINUM BANDS with raised figures, price postpaid, 10-15c, 25-25c, 50-35c, 100-60c

SPIRAL CELLULOID BANDS. 10 different colors price postpaid, 12-15c, 25-25c, 50-45c, 100-75c.

COLORED CELLULOID, with Aluminium Back. Any color, two large black numbers in each band; price 12-30c, 25-50c, 50-90c., 100-165.

Please do not send postage stamps
The National Poultry Band Co.
Send for Catalog. NEWPORT, KY.

RIPPLEY'S No. 200 HEATER



HAS been tested for years; no better heater for the price. Automatic regulator regulates temperature. Made of cast iron and steel. Hundreds in use for heating brooders, poultry, hog and greenhouses, work shops and residences from 25 to 100 feet long. See our exhibit at Ill., Ia., Ind., Neb. State Fairs and Omaha Swine Show. Write for booklet of Heaters, Cookers, Poultry Supplies.
RIPPLEY MFG. CO., Box A1 Grafton, Illinois

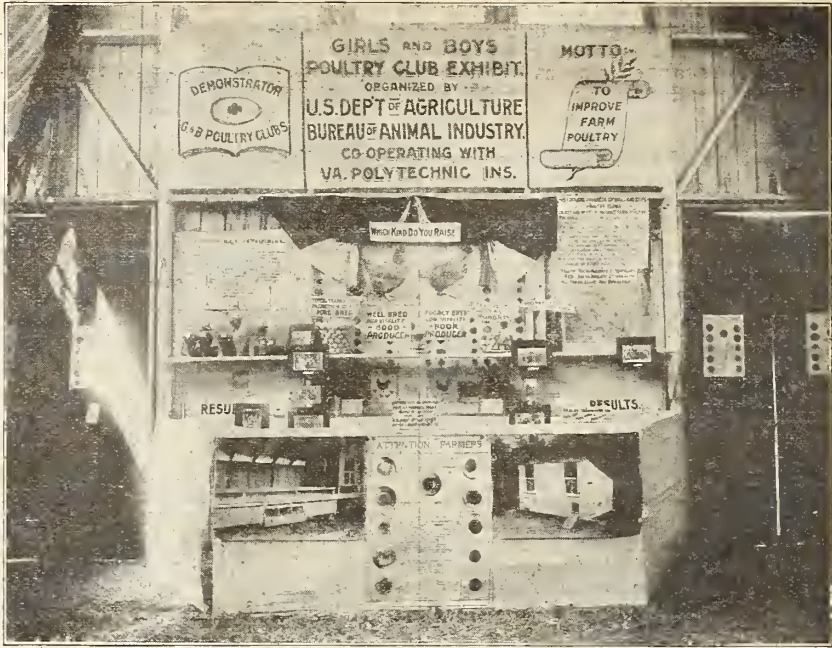
PRESERVING EGGS

Learn latest and best way—EGGOLATUM. Keeps eggs perfectly 1 year, costs but 1c doz. No expensive jars needed. Kept in ordinary box or carton. Endorsed by National Housewives League. Successful 3 years. Sample for 50 doz. eggs 50c postpaid. Book free.
Geo. H. Lee Co. Box 302 Omaha, Neb.

5000 Selected White Leghorn Pullets Utility Stock 90c each; 300 ckl. selected from 5000 cockerels, \$1.00 each.

White Leghorns and Light Brahmas From best in America
Pullets, \$5.00 Cockerels, \$5.00
STAUFFER POULTRY FARM, R 1, Wakarusa, Ind.

S. C. Black and Buff Orpingtons winners at all the leading midwest shows, Chicago, Des Moines, Omaha, Kansas City, St. Joseph, Dubuque, Cedar Rapids, Davenport and St. Paul. Stock and Eggs for sale.
O. M. BROWN Box G SLATER, IOWA



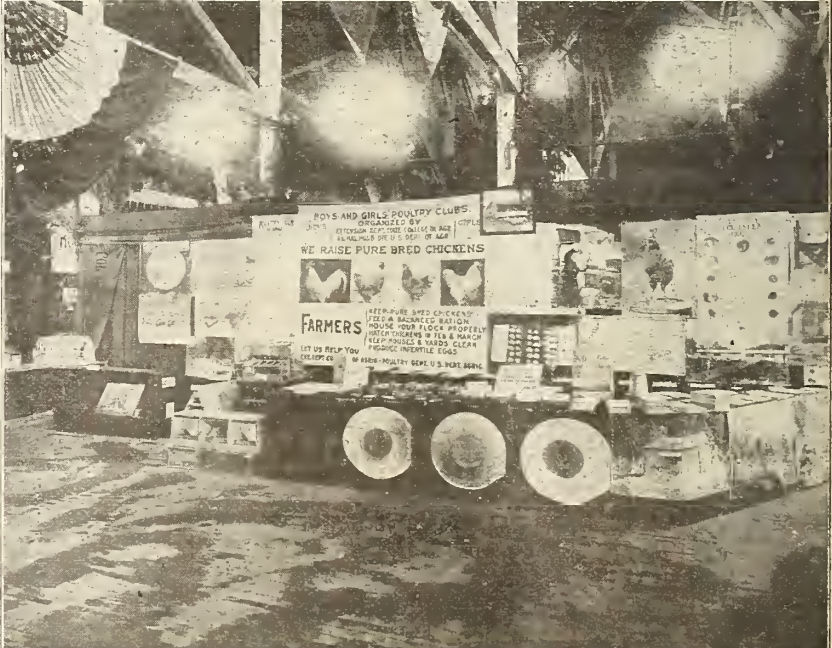
Poultry club exhibit at Virginia State Fair, Richmond, Va.

have grown into certain relations. Improvement for greater efficiency must be along the lines of experience and within the limits it indicates as safe.

War conditions make it necessary to plan to conduct shows so that they will make less than the ordinary demands upon transportation facilities, and help and not handicap other war agencies. In considering the effects of war conditions upon American poultry shows, the fact that stands out most prominently is that the uncertainties of transportation tend to limit the area from which a show can draw exhibits. When such a condition comes as a sudden emergency there is justification for asking preferential treatment for shipments of exhibits; but, when it is known long in ad-

vance that the obstruction to shipment will probably exist, patriotism should lead managers to endeavor to fill their classes with nearby exhibits and exhibitors to patronize the nearby shows.

In all propaganda for increased poultry production in war-time the policy has been to make use of existing means of reaching people, to co-operate with some established agency in such a manner that it will be permanently strengthened and made more efficient. This policy indicates the agricultural fairs, and especially the local fairs, as the best field for immediate action in this direction, because the agricultural fair either has a live poultry department which can expand to meet the emergency or has a comatose one which



Poultry club exhibit at Georgia State Fair.

ought to be infused with new life. Appreciation of the opportunity afforded at the agricultural fairs does not overlook the advantages of winter shows in their special field; on the contrary, it looks toward an increase of small winter shows as a direct result of making the poultry departments of small fairs more attractive and instructive.

The development of a good poultry show, whether at a fair or independently, has always been the result of the interest and efforts of a few poultrymen. Where shows are being held under efficient management, those in charge should have the hearty support of all poultrymen in the vicinity. Where the field is clear, local poultrymen should confer with the fair management and endeavor to secure its co-operation in a special effort to make the display of poultry one that will stimulate interest in the community.

The attitude of the poultrymen making such a proposal usually determines the attitude of the management of a fair toward it. If the poultrymen are enthusiastic and ready to do the work necessary to make the display of poultry a notable one, the fair management is usually prompt to respond and willing to give the poultry department its share of space, publicity and prizes. But the mere suggestion that the fair should have a better poultry department, with the implication that it is up to the general management to see that this feature is put on a par with others, has very little force with men who, as a rule, are giving free service in the general management and relying upon those with like public spirit to help in details of departments in which they are especially interested.

The first rule for making a successful poultry exhibition—whether in a big city or in a sparsely populated county—is to interest as many people as possible in it. Activity on this line should be the first step and should begin even before the management of the fair is approached. The latter can respond more promptly and more liberally when informed that so many poultry keepers would, with suitable inducements, enter so many birds, than when asked to authorize offers of inducements as the preliminary to a canvass for exhibits. At any time, and especially now when many things not ordinarily done are done from patriotic motives, a movement of this kind draws its first and best support from those who enter it early with more consideration for the public good than for any personal advantage it may bring to them.

Everyone who has poultry that he thinks is a little better than his neighbor's should be urged to show it at the fair. With Standard poultry as generally distributed as it is now, there is probably no place where a fair is held that cannot supply from some farm or poultry yard fairly typical specimens of the popular varieties of poultry. Everyone who has such stock should be urged to send something to the fair as a contribution to the movement to create more interest in poultry. As a rule, stock of no standard breed has not distinctive character which would give it interest in an exhibition, but occasionally a person has non-standard poultry which in appearance or performance is better than ordinary, and such exhibits may well be solicited. This is not only

the appropriate way to recognize the person who has done something well—if not on usual lines—but it is from this class of exhibits that the new things in the poultry world come. Our greatest shows regularly make provision for such exhibits in their "any other variety" classes.

Besides soliciting exhibits from those who already have good poultry, it is good policy to urge such of them as appreciate better quality than they have to purchase birds to show at the fair. Interest can also be helped if people of some prominence in the community who have not perhaps had any interest in poultry can be induced to take it up and to import some good stock to show at the fair for their own credit and for the benefit of those who attend and who might not otherwise have the opportunity to see really good stock of that particular kind. These suggestions are not theoretical, but are simple statements of the means that for seventy-odd years have been successfully used by promoters of poultry exhibits in places where they had been neglected.

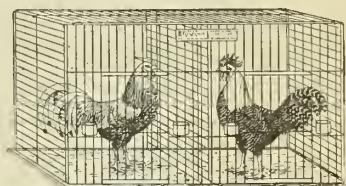
One of the most important things to observe in developing the poultry exhibit at fairs is to follow the standard method of classifying fowls for exhibition and for the award of prizes. The original method at fairs and at the early shows was to show birds in pairs, male and female, and award the prizes for pairs. The standard method is to show birds either singly or in pen of a male and four females. Innumerable experiences have demonstrated that providing separate classification for cock, hen, cockerel and pullet in each variety gives the widest recognition and fairest distribution of prizes to meritorious individual birds, while the classification for pens of five birds with appropriate prizes in the class gives the breeder who can make a fine exhibit in it the special reward he deserves. It is a matter of poultry show history that the adoption of the Standard classification almost invariably starts the poultry department at a fair on a course of enlargement and progress.

Another essential thing in making a poultry department interesting and instructive is the employment of a qualified judge. Nothing is so discouraging to the novice in exhibiting poultry as the decisions and explanations of the judge who is supposed to be good enough for a country fair, tho he would not be considered for a minute as judge at a show where substantial interests were involved in the decisions or where experienced exhibitors were showing. The judge at a large showing making decisions on very close comparisons of birds of very even quality may be exempt from explaining his awards in detail, but the judge at a small show has only half done his work when he has made his decisions—the other half is to tell exhibitors why certain birds are better than others and where the best on exhibition there might be improved. A judge who does this well can easily double the influence of a first poultry show for good in the community.

With the poultry always the main feature of a poultry department, such accessory features as can be secured should be provided. Exhibits of appliances and supplies always interest the general public and those little versed in methods of poultry culture. Many

things familiar to the experienced poultry keeper, that he would not stop to look at in a show, and hence suppose they can add nothing to its attractiveness, are of special interest to novices.

Wherever possible, the attendance of one or more representatives of the state college or experiment station should be secured for demonstrations and lectures. In any case, arrangements should be made for a supply of literature from the state institutions and the United States Department of Agriculture for distribution to visitors, and for the display of a full line of the posters used in promoting poultry production.



Prepare Your Winners

in the greatest coop that ever graced a showroom. We were the originators of the all-wire exhibition coop for poultry and have the only perfect folding all-wire compartment coop on the market. We have cooped most of the large shows, and have sold thousands of coops to breeders for private use with the greatest satisfaction. Why? Because ours is the original all-wire coop; because we have features that cannot be used on any other coop; because every part is made and welded by electricity expressly for the

KEIPPER COOPS

because our prices are within reach of all and have not advanced with the cost of manufacture.

We make special coops for rabbits and cavia.

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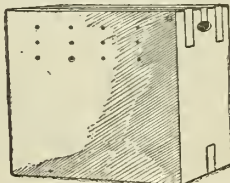
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Mention the American Poultry Journal when writing to advertisers.

Associations and Shows

Secretaries are Requested to Send in News Items of Interest About Their Shows for This Department

New Turkey Club Formed.

The International Turkey Club was formed at the American Poultry Association meeting. The following officers were elected: Chas. McClave, New London, Ohio, president; Ed. Gesner, Nora, Ill., vice-president; Mrs. E. I. Fowler, Rochelle, Ill., secretary; H. A. King, Ossian, Ind., chairman of executive committee. The club will promote closer co-operation and efficiency among turkey breeders. The first club meet of the new club will be held at Chicago Coliseum Show, December 3 to 8, 1918, where special cash prizes will be offered for the turkey class. As secretary of the International Turkey Club I would be pleased to receive suggestions or ideas from members or from persons wishing to become members. I

need your help and assistance in making the club what it should be. There are many reasons why every turkey breeder should join this club, the membership of which is only one dollar. Bring your birds and meet us all at Coliseum Show.

Rochelle, Ill. Mrs. Eli Fowler, Sec'y.

Southern A. P. A. State Show.

The late State Poultry Show of South Carolina was said by many exhibitors to be the best sales show they had ever attended. In many varieties every bird was sold that the owners would part with. Here is an opportunity for northern breeders to make a successful and profitable showing in southern territory. The

show is held at Columbia, S. C., October 28 to November 1. Judges Newton Cosh and J. Harry Wolsieffer, of Vineland, N. J., will place the awards. These judges of national reputation are a guarantee that the best birds will win. The names and addresses of all exhibitors are on the coops before the show opens and remain there. The selling price of every bird for sale is on the coop card, and when the bird is sold a red sales card is tacked up to prevent any error in returning after the show. A. P. A. medals and specials, silver cups, gold leg bands, and several hundred dollars in extra cash specials. Write for premium list to Frank C. Hare, Clemson College, S. C.

Light Brahma Club Meet.

Elaborate plans are in the making for insuring a large entry of Light Brahmas and a representative attendance east and west of members at the annual meeting of the American Light Brahma Club at the forthcoming Chicago Coliseum Show. Judge Chas. I. Balch, of Manchester, Conn., and Judge F. H. Shellabarger, of Iowa, will place the awards. When this club met at the Coliseum in 1915 it won the honor of having the largest entry of any specialty club holding its annual meeting there that year and the Light Brahma boys are confident of putting on the same large entry of high quality birds again this time. Secretary Harvey C. Wood of Bound Brook, N. J., will attend and in the meantime will be glad to hear from anyone expecting to enter his birds or attend the show in person.

Announcement.

The third annual show of the Williamson County Poultry and Pet Stock Association will be held in Johnston City, Ill., December 9 to 14, 1918. We are expecting and planning for more than twelve hundred birds of the various breeds to be exhibited. It is our aim to make this the largest show in the state, outside of the Coliseum Show in Chicago. Joseph Dagle, Richard, Iowa, has been secured to do the judging. Mr. Dagle needs no introduction to the poultry fanciers. He is widely known as a fair and competent judge. He will deliver a lecture one night during the show, which will be announced later. Begin now to condition your birds to have them ready for the big show. Write to G. W. Felts, secretary, Johnston City, Ill., for premium list, entry blanks or any information you may desire.

Pittsburgh Show.

The Poultry Exhibition of Pittsburgh, Pa., will hold its annual show at Motor Square Garden, Pittsburgh, Pa., January 20-25, 1919. J. Leonard Pfeuffer, the general secretary of the Pittsburgh show, will give every one who is interested full particulars in regard to premium lists, closing date, etc. Write him to Commonwealth Building, Pittsburgh, Pa.

The catalog of the Southeastern Fair, Atlanta, October 12-19, is now being mailed and can be had on request to R. M. Striplin, secretary, Atlanta, Ga. The poultry- and pigeon classes are the same as that of all the big fairs and the premiums about the same. Efforts will be made this year to increase the interest and entries to make the poultry department in keeping with the other big features of the fair, which now has only two or three equals in the United States, the total prize money this year being \$70,000.

The National Partridge Wyandotte Club will hold its annual meet at the Kansas City Poultry Show, January 13-18, 1919.

International Single Comb Black Minorca Club of Illinois will hold its state meet in connection with the fifth annual poultry show at Mt. Olive, Ill., December 12 to 15, 1918.

Poultry Cuts

for illustrating your advertising and printing. All sizes. Send for catalog and prices. AMERICAN POULTRY JOURNAL, 523 Plymouth Court, Chicago

Origin and History of All Breeds of Poultry

Illustrated with reproductions of paintings of 198 Birds in Natural Colors. This book tells where the breeds originated, how to mate to get best results, etc. Should be in every poultryman's library. A work of art. Price \$1.00. AMERICAN POULTRY JOURNAL PUB. CO. 523 Plymouth Court Chicago, Illinois

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OCTOBER 1-2-3-4

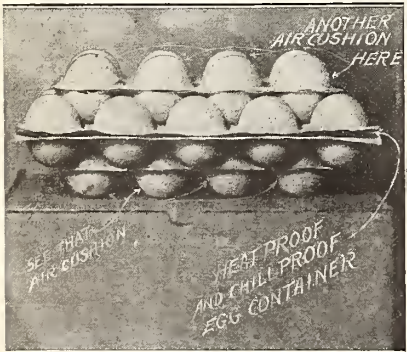
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The Big Fall Fixture

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Entries Close September 16th

Premium Lists and Entry Blanks of F. W. ROGERS, Sec'y, Montello Sta., Brockton, Mass.



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HEAT PROOF SHOCK PROOF
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Send 30 cents for sample

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200 to 288 Egg Line Cockerels and Hens

150 S. C. White Leghorn cockerels, 236 to 288 egg lines. May 1st hatch, from large eggs, \$2.50 each; pullets \$3.00 each.

200 Rose and S. C. Brown Leghorn cockerels, \$2.50, \$3.50 and \$5.00 each; all of 200 to 266 egg lines. Large egg strain. Hens \$3.00 each.

Rose Comb Brown Leghorn cockerels of 254 egg hens, \$5.00 each.

Barred Rocks—270 egg line.

S. C. Reds.

Catalog

W. W. KULP

Box 70

POTTSTOWN, PA.

Inter-State Fair at South Bend, Ind.

The fifth annual fair of the Inter-State Fair Association will be held at South Bend, Ind., September 10-14, inclusive, and a special effort is being made this year to have the poultry department the largest poultry exhibit in the middle west (the Hagerstown Show of the West). Liberal cash prizes are offered, with free transportation to the grounds, and all exhibits will be returned to owners within the state as per the new ruling made by the Railroad Administration. The judges are: D. E. Hale, Chicago, Ill.; W. C. Pierce, Hope, Ind.; J. C. Johnson, Brighton, Mo. All birds cooped free in new Keipper coops; uniform cooping thruout. The birds will be in charge of Superintendents C. R. Montgomery, Paul A. Heiermann and J. M. Goss, all members of the local poultry association. All exhibitors are assured their birds will receive proper care and attention by capable men. For premium list and entry blanks write C. R. Montgomery, J. M. S. Bldg., South Bend, Ind.

Report of International Egg Laying Contest at Storrs, Conn., for Month Ending July 31.

Storrs, Conn., August 10, 1918.

On August 1 the hens in the laying contest at Storrs were a little over 3,000 eggs behind their record for the corresponding period last year. It is believed that the hens themselves are just as good and that they get just as good care. There are, however, two factors which contribute to lower yields. One of these is the fact that these hens went thru the worst winter that New England has experienced for 100 years and the other is that the hens have not received the same feed nor as good quality. During July the total yield for all pens amounted to 16,027 eggs, which is 1,750 less than for June, and 1,100 less than for July of last year.

The following table shows the number of birds in each breed, the average amount of grain and mash consumed, also the average number of eggs produced by each breed during July:

	Grain	Mash	Eggs
180 Plymouth Rocks.....	30.4	54.0	147
160 Wyandottes.....	29.7	49.2	145
170 Rhode Island Reds.....	29.8	52.6	139
430 White Leghorns.....	36.3	42.5	180
60 Miscellaneous.....	35.8	43.2	161
1000 Average all breeds.....	33.1	47.4	160

The Oregons, entered by Agricultural College at Corvallis, repeated their June performance and won the blue ribbon or first prize for July with a yield of 249 eggs. Hollywood Farm's pen of White Leghorns from Hollywood, Wash., were awarded second prize with a production of 227 eggs. Oak Hill Estate's pen of the same breed from Uniontown, Pa., were a close third with a yield of 226 eggs.

The best individual record continues to keep away ahead of the pace set in the last contest. A year ago the best performance for the first nine months was 206 eggs by a Barred Rock, whereas a White Wyandotte in the present contest has laid 232 eggs, with three months to go.

The nine leading individuals to date are as follows:

White Wyandotte, Bridgeton, R. I.....	232
Barred Rock, Palenville, N. Y.....	203
"Oregon," Corvallis, Ore.....	202
Barred Rock, Pittsfield, Mass.....	197
"Oregon," Corvallis, Ore.....	194
White Wyandotte, Columbia, Conn.....	192
White Wyandotte, Bridgeton, R. I.....	192
"Oregon," Corvallis, Ore.....	192
White Leghorn, Hollywood, Wash.....	192

For the past few months there has been more or less unrest among poultrymen both as individuals and as organizations. All over the eastern section of the country people have felt that the price of feed was too high, the price of poultry products too low, that there was need for organized effort in buying and selling.

In view of such unsettled conditions and the feeling on the part of many poultry farmers that their poultry was no longer profitable, the management of the contest began to believe that perhaps there would not be the same interest in laying competitions another year as has obtained heretofore.

The fact is that the college now has over 80 applications and only a total of 100 can be received, and this three months before the next contest opens. Breeders from a dozen states are already planning to send birds to Storrs next November.

COLISEUM

Poultry & Pet Stock Show, Chicago

TENTH ANNUAL EXHIBITION

December 3, 4, 5, 6, 7 and 8, 1918

THE one show west of New York that for nine consecutive years has met every obligation in full and in cash, without the sale of one dollar of its capital stock.

THE COLISEUM SHOW

has introduced more new features that work to the interest of the fanciers than all other shows in this country combined. It is the one exhibition that caters to all classes of breeders, and helps in the right way to promote the interest of all fanciers, large and small.

A WINNING AT THE COLISEUM

is without question the most important win that can be made in this country, no matter what part of this country you may be located. A winning at this great show will put you on the map and insure you good prices for your stock.

THE COLISEUM SHOW

has never sold concession space to a faker. Only legitimate concessions are allowed, and we pride ourself on the fact that we are the only national show in the world that absolutely guarantees its concessionaires to its patrons.

THE COLISEUM SHOW

is the greatest sale show in America, and the only show that we know of where a legitimate sale of \$5,000 was made by one exhibitor. Coming as we do on the same dates as the Great International Stock Show, we put our exhibitors in touch with the greatest buying public in the world, as more than 100,000 stockmen from all parts of the world come to Chicago on this date.

The Light Brahma Club, the International Plymouth Rock Club, the International Turkey Club, the National Bantam Club and the American Rouen Duck Club will hold their meetings with us this year, with other important clubs now voting and quite likely to decide in favor of the COLISEUM.

YES, THE COLISEUM SHOW

will pay cash prizes in 1918. And in addition to our regular cash list we will pay more cash specials than ever in the history of the show. This is no time to retrench on expense. The breeders need all the encouragement they can get, for God knows they have been hit hard enough. In addition to our cash prizes

THERE WILL BE SIX \$50 TROPHIES

for best display in six important breeds. These trophies are without question the most valuable prizes ever offered at any show and are offered for the best ten entries in a breed, instead of variety, as formerly.

THE COLISEUM PREMIUM LIST

will be mailed earlier this year than formerly. All exhibitors at the 1917 show will receive the list without request; others are requested to write the Secretary, so their names may be added to the mailing list.

The Lexington Hotel, Chicago, has been selected as headquarters. This hotel is located at 22nd St. and Michigan Blvd. Street cars stopping in front of the Coliseum stop in front of the Lexington; or exhibitors may walk, as the distance is only six squares.

A BIG NEW FEATURE

will be added this year—one that has been requested by the exhibitors and one that will be appreciated by every exhibitor, as it gives to the exhibition and the public something they have always needed. Don't fail to send for list, and please remember

ALL ENTRIES CLOSE NOVEMBER 15

Chicago and suburban residents may get information in regard to concessions from James W. Bell, care American Poultry Journal, 523 Plymouth Court; but for premium list address the Secretary, 25 West Washington St., Indianapolis, Ind., until October 15th; after October 15th, Lexington Hotel, Chicago, Ill. THEO. HEWES, Secretary.

Fernwood Leghorns
 Make egg records. Win prizes. Get my folder.
 W. O. Benson, 712-16 W. 103rd Street, Chicago, Ill.

CLASSIFIED ADS.



UNDER this heading ads will be inserted for seven cents per word each month for less than three months, or *six cents per word each insertion for three months or longer*. Changes in copy allowed every three months. Numbers and initials count as words. All ads will be inserted under **classified headings**. No ads accepted at less than an average of 60 cents per insertion. Terms, cash with each ad. Count the words carefully to avoid delay in publishing. Write your copy plainly, as upon this the correctness of your ad largely depends. When placing your ads remember that advertisers using Classified Ads get better returns from AMERICAN POULTRY JOURNAL than from any other poultry journal—none excepted. On writing any of these advertisers, mention AMERICAN POULTRY JOURNAL. **All copy for Classified Ads must reach us by the 17th of month preceding the date of issue.**

ANCONAS

ANCONAS—Vigorous young stock, excellent laying strain. Fair prices. Graff Hubbard, Lock Haven, Pa. 9

SELECTED BREEDERS — Single Comb Anconas; Sheppard's strain; yearling hens or cockerels, \$1.50 each. Hickory Dell Farm, Glenbeulah, Wis. 9

SHEPPARD'S SELECT STRAIN — R. C. Ancona cockerels. Exceptional fine 6 months old birds, \$2. A. O. Murray, Mazon, Ill. 9

SINGLE COMB ANCONAS—Select young breeders from 200-egg hens and \$50 Sheppard prize male. 1918 pullets began laying at 3 months, 3 weeks, 3 days old. Good cockerels, short on points, only \$3 each, five for \$12. T. H. Holmes, River Forest, Ill. 9

SIEBERT'S ANCONA FARM offers a few choice Sheppard strain cockerels and yearling hens, both combs. Quality surpasses by far the satisfactory birds sold last year. Correspondence invited. W. A. Siebert, Evans Mills, N. Y. 9

SHEPPARD'S FAMOUS ANCONAS — The World's Best. See display ad page 788. Cecil Sheppard, Berea, Ohio. 11-16-17r

PRITCHARD'S GENETIC Anconas — Bred with care. Frank P. Pritchard, Naturalist-Breeder, Fairmount, Ill., Route No. A2. 11-17-17r

S. C. ANCONA cockerels from extra good laying strain; 8-12 weeks old. Edw. Ripploh, Minster, O. 8-10

FOUR-MONTH ROSE Comb cockerels, \$1.75. C. W. Zehle, Appleton, Wis. 8-9

BANTAMS

BANTAMS, SILKIES, COCHINS, Brown Red Games, Rose Combs; \$2 each. Robert L. Hale, Shelbyville, Ind. 9-11

BANTAM SPECIALIST—Buff, Black, Partridge Cochins, Light and Dark Brahmans. I ship on approval. Circular free. Geo. C. Salmon, Port Dickinson, N. Y., Route 4. 1-17tf

BANTAMS — 200 YOUNGSTERS. Black Reds, Red Pyles, Black Rose Combs. Ready September 1st. For the best, write C. L. Sibley, Wallingford, Conn. 9-11

BRAHMAS

LIGHT BRAHMA BREEDING and exhibition stock. Wonderfully good pullets reasonable. All stock trapnested and pedigreed. Putnam & Sons, Harvard, Ill. 9-11

LIGHT BRAHMAS—At Cleveland we won 1st and 2d cock, 1st hen, 1st cockerel, 1st pullet. Young and old stock for sale ranging in price from \$5 to \$10 each from my breeding pens. Geo. C. Wright & Son, 2335 Riverside Road, Lakewood, O. 5-18-tf

BUTTERCUPS

BUTTERCUPS — YOUNG AND matured stock; the breed that you will eventually buy. Harry Daly, Maysville, Ky. 9-11

SPECIAL SALE OF Buttercups, including Chicago, Boston and Detroit winners. Records to 270 eggs. Also young stock. J. Vernon Sheap, Jackson, Mich. 9

GOLD COIN BUTTERCUPS—O. B. Disenroth, Lawrence, Mich. 1-18-17r

CAMPINES

STAR SILVER CAMPINES—A strain of pedigreed high egg producers. Bargain sale in breeding stock. Star Silver Campine Farm, Huguenot Park, N. Y. 9

GOLDEN AND SILVER Campines—Some show birds. Write. Kissel Bros., Hartford, Wis. 9

CORNISH

WHITE CORNISH COCKERELS, \$5 each. Bred from first prize winners. L. J. Smith, Deep River, Conn. 9-11

MOHAWK STRAIN White and Dark Cornish. Starvation prices. Circular, stamp. C. D. Smith, Palatine, Ill. 9

WHITE LACED RED Cornish—Old and young stock. Sunnysields Farm, Wallingford, Conn. 9-11

DORKINGS

EGGS AT HALF PRICE remainder of season; \$2 per 13, \$3.50 per 26. From Westfall's champion Silver Gray Dorkings. No reserve. More first prizes, silver cups and specials at New York, Boston and Buffalo than all competitors combined. These are the chicks that grow two pounds at two months. A few choice birds for sale. No baby chicks. Watson Westfall, Sayre, Pa. 2-17-17r

GAMES

SILVER DUCKWING — Young stock, \$5 and up. If you are not looking for well bred stock, don't write. Geo. B. Williams, Lisbon, Ohio. 8-10

HAMBURGS

PRIZE-WINNING SILVER Spangled Hamburgs. Stock for sale. Write for prices. Chriss King, Boscobel, Wis. 7-9

SILVER SPANGLED HAMBURGS. Black Diamond strain. Highest honors at Madison Square and leading shows of America. Eggs, \$3.00 and \$5.00 per 15. If you want the best and birds that can win in any competition, you should order stock or eggs from Will L. Clark, Sullivan, Ohio. 3-16tf

LAKENVELDERS

LAKENVELDERS — EVERLASTING layers. Supremely beautiful. State wants. Hermitage Farm, Millersburg, Ohio. 8-9

LAKENVELDERS — HANDSOME young fowls for sale. C. E. Patterson, Cardington, Ohio. 8-10

LANGSHANS

WHITE LANGSHANS of quality stock for sale. Alonzo Tyner, Greenfield, Ind. 9-11

SOME FINE BLACK LANGSHAN cockerels, bred-to-lay strain. March hatch. Mrs. Ray Marr, Chatsworth, Ill. 9-10

S. C. WHITE LEGHORNS

200 S. C. W. LEGHORN pullets for quick sale. April hatched, well grown, healthy. Ferris and Barron strains. \$1.50 each. Elizabeth R. Colton, Aurora, Ill., R. 4. 9

YEARLING HENS FOR SALE — Single Comb White Leghorns, choice stock of the best laying strain. Circular. Harry F. Palmer, Middleport, N. Y. 9

FERRIS 200-230-EGG STRAIN 14 weeks old cockerels, \$2 each. Mrs. Ackerson, Montague, Mich. 9

PURE TOM BARRON Leghorn pullets. G. L. Poole, Garretttsville, O. 9-11

WHITE LEGHORN YEARLING hens, exceptional value, \$1.50 each; 12, \$15.50; 20, \$24.90. Also cockerels. Wm. Jacobs, Salem, O. 9-11

TOM BARRON'S ENGLISH Single Comb White Leghorn cockerels, pullets and yearling hens for sale, bred from stock with high egg records for generations. We trapnest every layer every day in the year. Your money back and we pay express charges both ways if they fail to satisfy you. Write for prices and description. Bear Den Poultry Farm, Wheeler, Ill. 9-11

SINGLE COMB WHITE LEGHORNS — Young's. Lowtailed cockerels, \$3. Meadow Farm, Coulterville, Ill. 9

FOR SALE—300 S. C. W. Leghorn hens, select stock. Must make room for young stock. Universal Poultry Farm, Monticello, Ill. 7-9

"EGG FARM" STRAIN S. C. White Leghorns, 300-egg actual trapnested and pedigreed, with winter laying habit bred right to the bone. Northern grown, husky, vigorous cockerels, low as \$2. Fred Havig, Route 2A, Osage, Ia. 9

YOUNG'S BEST STOCK—100 April hatched cockerels, exhibition type; egg records 243 to 286; \$1 to \$1.50 while they last. Cyko Farm, Hudgens, Ill. 9

TOM BARRON WHITE Leghorn cockerels, 8 and 12 weeks old, \$1 and \$1.50 respectively. Robt. M. Stroud, Hastings, Ia. 7-9

SINGLE COMB WHITE Leghorn pullets, hens and cockerels, Catalog, stamp. Falling Poultry Farm, La Fargeville, N. Y. 7-9

SINGLE COMB WHITE LEGHORNS — Several hundred yearling hens and April hatched pullets, reasonable. Satisfaction guaranteed. Miller Poultry Farm, Box T, Lancaster, Missouri. 7-9

SPECIAL THIRTY-DAY SALE — Barron White Leghorns, "The Big Kind" Pairs, \$2.50 up; trios, \$3.50 up; pens, \$5.50 up. Cockerels, hens, pullets. L. W. Ranker, Box A, Tiffin, Ohio. 8-9

BUSINESS BRED S. C. White Leghorns Chicks, eggs and stock. Catalog free. Slaty Ridge Poultry Farm, Box 12, Palmyra, Pa. 8-10

S. C. WHITE LEGHORNS—Large sized, 295-egg record. Eggs, \$2 per 15, \$7 per 100, \$12 per 200. Chicks, 20c each. Cockerels, \$3, \$5 and \$10 each. Prepaid. Mrs. E. R. Dees, Waltonville, Ill. 8

PURE BARRON LEGHORN cockerels with pedigrees from 240 to 284. Large early hatched birds, full of life and vitality. We have several hundred to choose from and will guarantee to please you. Riverside Poultry Farm, Cambridge Springs, Pa. 8-10

ON ACCOUNT OF LABOR shortage I must sell flock of 700 S. C. White Leghorn yearling hens. Flock has been closely culled, and has made good record. Price, \$1.50 each. Henry Carter, St. Helen, Mich. 8-10

R. C. WHITE LEGHORNS

ROSE COMB WHITE Leghorns—Biggest winners last Chicago show. Must sell, including young. Franklin Morris, 821 Galena, Aurora, Ill. 9

S. C. BROWN LEGHORNS

SINGLE COMB BROWN Leghorn pullets, hens and cockerels. Catalog, stamp. Falling Poultry Farm, La Fargeville, N. Y. 7-9

S. C. BUFF LEGHORNS

BUFF LEGHORNS For 27 years—Oldest breeder in America. Cockerels and pullets for sale, the finest I ever offered. Jno. Quincy Dawson, Coshocton, O. 9-3

283-EGG BUFF LEGHORNS — Early hatched, \$1.25. Dr. Hume, Anadarko, Okla. 9-10

EGG-BRED BUFF LEGHORNS — Single Comb. Winners best shows: Laying contest leaders. Bargain breeders now. Lea Munger, De Kalb, Ill. 9-10

ROSE COMB BUFF LEGHORNS—Stock and eggs. Catalog. Howard J. Fisk, Falconer, N. Y. 3-18-1yr

BLACK MINORCAS

SPLENDID BLACK MINORCA cockerels cheap. Also few hens. Cocks, vigorous, large egg strain. Henry Wallis, Delavan, Wis. 9-11

ROSE COMB BLACK Minorcas. Exhibition and utility stock, and eggs for hatching at all times. Send for our large catalog. G. A. Clark, Seymour, Ind. 6-17-1yr

WINNERS AT PANAMA and official 200-egg strain, National egg-laying contest, Missouri, up to 272. H. A. Kultz, Burlington, Wis. 2-18-1yr

SINGLE COMB BLACK MINORCAS—Cockerels, 4 months, \$1.50 each. Table Egg Farm, Lookout, Pa. 8-10

BUFF MINORCAS

BUFF MINORCAS — The true war-time breed. See article in June Journal. Special price on eggs from my trapnested 200-egg exhibition stock. W. R. Mortimer, Los Gatos, Cal. 9

BUFF MINORCAS—See display ad page 774. Walhalla Poultry Farm. 3-18-tf

RHODE ISLAND WHITES

THE GREAT RHODE ISLAND White farm. Eggs, \$1 per 15. Rose and Single Comb stock, \$6 per trio; \$10 per pen. Catalog free. Henry Eichelmann, Waterloo, Ill. 9-11

RHODE ISLAND REDS

MEIHSNER'S RUBY REDS—Fifty choice cockerels, \$3, \$5 and up. R. C. Meihner, Walnut, Ill. 9-10

SINGLE COMB REDS — Big, dark red, early hatched. Heavy laying strain. Show or utility. Pullets and cockerels, \$2.50 each and up. Scarborough, Hillsboro, O. 9

RHODE ISLAND REDS—Excellent cockerels from trapnested stock. 200-egg per year strain. B. E. Guither, Walnut, Ill. 9

PERRY'S SINGLE COMB Red on approval. Freed Perry, Ottawa, Ill. 8-10

PARTRIDGE PLYMOUTH ROCKS

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 792. 5-15-tf

OWN-LAND FARM'S Partridge Rocks—Boston winners. Circular. South Hammond, New York. 8-10

WHITE ORPINGTONS

SPLENDID WHITE ORPINGTON cockerels. Show or utility. 232-egg strain. March hatch. George Layman, Greenville, Ill. 9-11

LARGE PURE WHITE Single Comb White Orpington hens from Owen Farms best pens, \$3.50 each. A. Range, Plattsmouth, Neb. 9-10

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BARRED ROCK COCKERELS, \$1.25 each. P. H. Skogman, Cambridge, Minn. 9

BARRED PLYMOUTH ROCKS—Excellent cockerels, trapnested stock, 200 to 250 eggs per year. Utility only. N. E. Guither, Walnut, Ill. 9

WHITE PLYMOUTH ROCKS

F. L. H. WHITE ROCKS are prize winners. Thrifty young stock for sale. F. L. Hooper, Kendallville, Ind. 9

BUFF WYANDOTTES

EGG-BRED BUFF WYANDOTTES—Winners last National Club Show. Bargain breeders now. Lea Munger, De Kalb, Ill. 9-10

COLUMBIAN WYANDOTTES

SUPERIOR STRAIN, MADISON Square Garden and Boston winners: Choice-breeding cockerels from our heavy laying strain of prize winners. Reasonable prices. Gilbert Poultry Farm, Whittier Road, Haverhill, Mass. 9

GOLDEN WYANDOTTES

GOLDEN WYANDOTTES at reasonable prices. Write. C. C. Thomas, Sandusky, Mich. 9-11

WHITE WYANDOTTES

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AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our ad on page 792. 2-tf

AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 792. 2-15-tf

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I OFFER GUARANTEED MATED Homers in any quantity at \$1 per pair. Beautiful White Homers, \$1.50 pair. Squab companies challenged to produce better stock at twice this price. Get my prices on Runts, Carneau, Maltese hens and save dollars. Squab Manual, 25c. Charles A. Gilbert, 2210 Almond St., Philadelphia, Pa. 7

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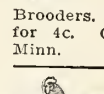


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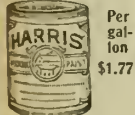
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One of the Great Imperial "Ringlet" Males. Observe the Wonderful Shape, Color and Barring.

Sweepstakes Champion Male and Female; Color and Shape Specials Male and Female; Best Five Males; Best Five Females; Best Display, and every other Special Prize. This is the capstone to their unexampled record at New York for 30 victorious years. At the last four shows—1915, 1916, 1917, 1918, they have won 19 First Prizes out of 20 offered. Every bird bred on my farm. Supreme at Madison Square Garden is Supreme Everywhere!

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AMERICAN POULTRY JOURNAL



VOL. XLIX, No. 10

OCTOBER, 1918

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VOL. 49

OCTOBER, 1918

NO. 10

I. K. FELCH MEMORIAL NUMBER

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

Published Monthly by the American Poultry Journal Publishing Company, 523 Plymouth Court, Chicago, Illinois

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You can't get eggs by feeding scratch grains, because scratch grains do not supply the hen with egg-producing qualities. The feed that will make your hens lay abundantly right through the Fall and Winter months is

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GRAINS
Don't
Make
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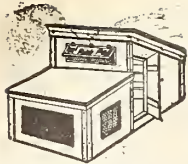
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Saves the young chicks—promotes health and rapid growth. Supplies hens with all the vital nutrients necessary for maximum egg production, which are not found in any grain ration.

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The addition of dried buttermilk to the other high quality materials in Sucrene Poultry Mash gives this feed greatly increased value for young chicks and laying hens. The acid in the buttermilk prevents or destroys the germs which cause the death of 25% to 40% young chicks every year. Buttermilk also supplies the vital life giving, growth promoting and special egg producing material, not found in any grain or meal ration.

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Everyone knows the high feeding value of dried buttermilk for poultry. Combined with the other high quality materials in Sucrene Poultry Mash with Buttermilk it balances the grain ration—provides the animal protein which hens crave at all times, the life and vigor promoting fat, the calcium carbonate or mineral matter for shells—enables the hen to complete all the eggs which nature impels her to form.

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Guaranteed Analysis: 18% Protein, 31-2% Fat, 50% Carbohydrates, 12% Fibre.

Keep Sucrene Poultry Mash with Buttermilk before your hens all the time in hoppers. They eat only as much as they need without waste.

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The high protein content in Sucrene Mash helps hens quickly through the moult, supplies the necessary feather building and body maintaining materials—restores egg laying capacity in time for winter laying.

Give them Sucrene Scratch Feed twice daily. It is the pure grain ration for laying hens, composed only of corn, wheat, kaffir, sunflower seed, buckwheat, barley and oats. Stop wasting money on high priced unmixed grains. Sucrene Feeds are more economical and you can rely on results.

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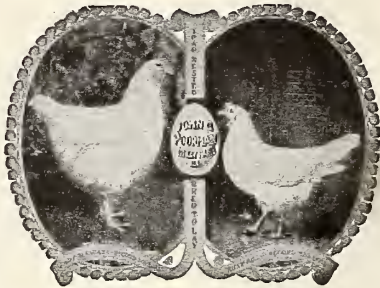
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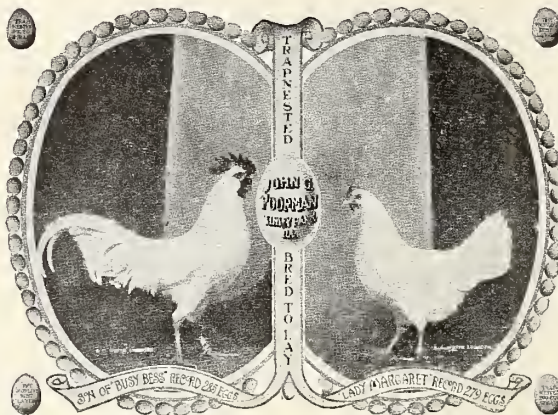
RESULTS

Cincinnati, O., Jan. 30, 1918.
Mr. John G. Poorman,
Tinley Park, Ill.

Dear Sir:

Enclosed please find Money Order (\$30.00) for a White Rock cockerel from your special mating. Kindly give me some information as to his ancestry, as I intend to breed him to some extra heavy laying hens. These hens were raised from chicks purchased from you in 1915 and 1916. Have trapnested them and some of the records are 280, 242, 216, 201, 200—not from the date of their first egg, but from November 1st to November 1st, same as the official laying contests.

Please ship as soon as possible via American Express to Elmwood Place, to be marked, "Will be called for."
J. J. H.



Special Pair Mating—S. C. White Leghorns

RESULTS

Grosse Ile, Mich., Feb. 5, '18
John G. Poorman,
Tinley Park, Ill.

Dear Sir:

Enclosed find my check for \$15.00 for which, with my credit of \$10.00, kindly book my order for 50 Class A day-old chicks.

If possible, I would like to receive this shipment by American Express not later than the 15th of April.

This sure has been tough laying weather for the last sixty days, but you may be surprised to learn that the Poorman Orpingtons have been hugging the 50 percent mark for December and January and have outlaid some White Leghorns which I had given to me last year.

With best regards for the season's success, I am
Very truly yours,
N. A. P.

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AMERICAN POULTRY JOURNAL

Volume 49

Chicago, Ill., October, 1918

No. 10

Seventy-Four Years a Poultry Fancier

An Appreciation of Isaac K. Felch, Pioneer American Poultryman.

By Prince T. Woods

ISAAC K. FELCH, one of the pioneers in American Standardbred poultry culture, died at his home in Natick, Mass., at 10:30 p. m., Saturday, August 31, age 84 years, seven months. After a long and useful life largely

devoted to the interests of thorobred poultry, work which he continued well into the present season, rest came quietly and peacefully, "God's finger touched him, and he slept." He was born in Natick January 17, 1834.

To many thousands of poultry keepers all over the American continent he was fondly known as "Uncle Isaac" and he was probably the best known poultryman of the United States. For a longer period than the average lifetime he has been a constant contributor to the agricultural and poultry press. No writer has ever developed a more fertile pen, and obscure indeed must have been the poultry publication which failed to carry an article on timely poultry topics at frequent intervals during the past half century from this well known "Sage of Natick."

According to his own story published in *Farm-Poultry* in 1899, I. K. Felch has been seventy-four years a poultry fancier. Here we quote from the article:

"From 1844, the eleventh year of my age, dates the first of the causes which produced the fancier, I. K. Felch. Then the sale of six hens, and a male bird thrown in, for \$2, gave me funds to purchase the first pair of fowls known as a specific breed, the 'Mexicans.' * * * *

"At that age I would go hungry and walk miles to obtain a coveted pigeon, or a fowl I had seen to my fancy.

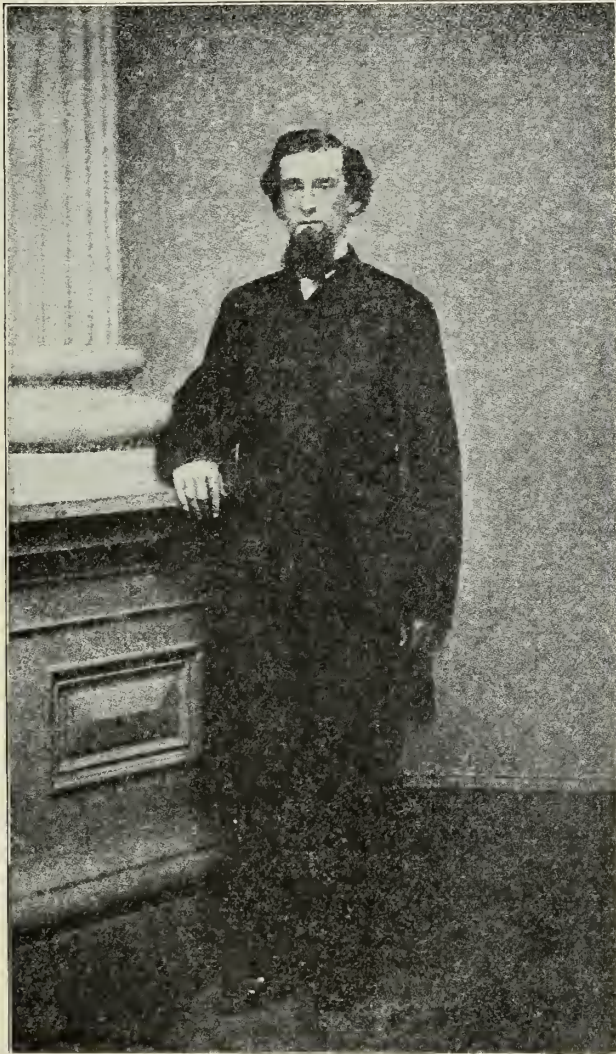
No one mated to preserve breed character. Farm flocks were never uniform. How was a child to act but in the grooves his elders had followed before him? There was no poultry paper."

But the boy with the fancier instinct was not satisfied to stick "in the grooves his elders had followed." He read everything he could get hold of which related to poultry and the history and breeding of domestic fowls and, like most

boys, he developed a fondness for a number of breeds, such as were available in those early days, and he became infected with "the Shanghai craze" in the late forties. Speaking of this experience, he said: "In the fall, when I sold several trios at \$2 a specimen, the excitement commenced, and I confess that when I sold four for \$12, I received more satisfaction and felt richer than since when I have several times sold Brahmas for \$100 each. Taking money for fowls was a new sensation in connection with my poultry, and chicken raising in old Natick received an impetus which continues to this day."

The boy Felch soon developed into a fancier-breeder, growing up, so to speak, with the newly developed poultry industry. The Boston Poultry Show of 1849 marked the beginning of poultry culture for exhibition purposes and young Felch was in the very heart of the country where poultry enthusiasm was at high mark.

H. H. Stoddard, veteran poultryman and editor of that pioneer poultry publication of the early seventies, the old *Poultry World*, in a historical article for the late *Poultry World* of 1910, classed I. K. Felch with Charles A. Sweet and Philander Williams as "the three main pillars of Standardbred poultry culture in America." Stoddard's beautiful tribute to Felch was happily dated just prior to



I. K. FELCH IN 1863.

Uncle Isaac's seventy-sixth birthday. Here it is:

"As for dear old Ike, I cannot trust myself to speak as I would like, for he, thank heaven, is still with us, and it might

appear as if I were 'slathering' him. He was intellectually the brightest, or anyway the quickest of the three, Sweet occupying the half-way place. When in A. P. A. or whatever council of fanciers, a question came up, he made his conclusion 'quicker'n lightnin',' and it was generally mighty near right, too. His work was that of a judge and a Standard maker, as well as that of a writer and wonderfully skilled breeder, and considering both his remarkable ability and the great length of his service in these fields, it is not likely that his equal will turn up in a hundred years. There never was a dishonest hair on his head. An intense love of justice was a quick instinct with him, an invaluable possession of a judge whose path is scattered with temptation 'thick as leaves in the valley of Vallambrosa.' His fine sense of humor, quick appreciation, and genial disposition made him a delightful member of any chance social circle of fanciers. In debate, if his positive and impetuous manner sometimes gave offense, his self-command and never failing courtesy, on getting a second breath, generally smoothed everything over. His writings on poultry are very voluminous and as instructive as extensive. His ingenuity in formulating rules and methods of judging was as remarkable as the enormous number of fowls he pro-

meeting with much opposition after applying for admission to the Standard. We quote:

"Finally at Worcester, Mass., in 1883, Langshan breeders determined to take the A. P. A. by storm, and they did. * * * Making an exhibit that ran across the large hall, in a double row of coops, the Langshan breeders presented a petition carrying twelve hundred signatures of breeders asking admission to the Standard.

"That old patriarch, then in his prime, I. K. Felch, stood before the assembled convention, and unrolled the petition, then stepping quickly into his chair, he held the petition above his head and the end yet almost touched the floor, and he was a tall man, turning to the convention he said: 'Gentlemen of the American Poultry Association, twelve hundred Langshan breeders are knocking at your door, will you admit them?'—they admitted them.

"Then came the crucial test; there was a large class of birds, but there was no such thing as a Standard to judge them by. Mr. Felch then was instructed to look over the exhibit, draw a Standard for the breed, and then place the awards according to his Standard." He did it, and it was a good Standard.

Altho a thoro fancier and a strong advocate of Standard-bred poultry, Uncle Isaac was strong for breeding true to nature and for retaining the utmost in practical qualities. As his was a strong influence in Standard making, it is quite possible that we owe to him in large measure the fact that specimens nearest Standard perfection usually are the type which possess merit in productivity. Writing in 1881, Mr. Felch said:

"A breeder and dealer is compelled to produce what will sell, and he has all classes of customers; as a fancier all will pursue the course that affords the most pleasure. But the farmer and poulturer wants to know which course brings the most money for the outlay.

"The writer cannot say aught but the truth; and the better of all is what is the *natural, practical, and productive merits of the breeds*; what type is produced for the least cost of food consumed and that which produces the largest number of eggs in a year. Facts are stubborn things."

His rule for building up a business as a breeder was: "Sell none but A No. 1 birds as thorobreds, killing all that are not, and you soon enjoy the enviable position of a first-class breeder and also a first-class poulturer."

The good work accomplished by I. K. Felch for Standard-bred poultry will live for generations to come. He not only had the fancier spirit but he had vision and sound common sense. No one will deny that this skilled breeder, veteran poultry judge of countless shows thruout the country for the greater part of a lifetime, and maker of Standards, was a true fancier, yet he ever sought to combine the beautiful with the useful, while recognizing to its full value the purely ornamental or the unusual. In an article written for the *Poultry Monthly*, on "Poultry a Means of Wealth," in 1887, he said: "Many of us are rearing fowls for the love we have for the beautiful found in animated nature, but take from this industry its utility, and the numbers raised would be but as a handful of sand compared to that which makes up the ocean's shore. This influence you see in the ornamental breeds, in the scarcity of numbers in our exhibits of them.

"Those breeds having the greatest practical worth, being the greatest layers, those producing the largest eggs and the best meat as broilers and roasters, those laying the larger number of eggs in the winter months, these will ever be the kind to hold the popular call and the steadiest sale, and their breeders will always be 'tided' over a dull season, while the breeder feels more quickly the fluctuations of the market whose tastes lead him to breed those termed ornamental.

"We have only to survey the field to find that a majority of the breeders, who make poultry culture a business and means of support, are breeding the most practical kinds."

During his long experience as a fancier-breeder, Mr. Felch bred many breeds and varieties and was a skilled judge of all bred-to-Standard poultry. Under the firm name of I. K. Felch & Son, his advertisements have been models of plain straightforward statements of facts, which were in themselves an assurance of honest dealing. "Felch Offers," etc., came

Our New Specialty Advertisements.

<p>I. K. FELCH, Breeder of High-Class Light Brahmas, DARK BRAHMAS, COCHINS and LEGHORNS. Address: I. K. FELCH, New York, N. Y.</p>	<p>Philander Williams, Waukegan, Illinois. Breeder of High-Class LIGHT BRAHMAS, DARK BRAHMAS, LEGHORNS, COCHINS, LA FLEURS and CHESTNUTS. Address: Philander Williams, Waukegan, Ill.</p>	<p>FRUIT REGION POULTRY YARDS, A. Zophar & Bros., Breeder of High-Class PLYMOUTH ROCKS, LEGHORNS, COCHINS, LA FLEURS and CHESTNUTS. Address: A. Zophar & Bros., Fruit Region, Mich.</p>
<p>GEO. BUTTERS, Breeder of High-Class HOUDAINS and LIGHT BRAHMAS. Address: GEORGE BUTTERS, New York, N. Y.</p>	<p>W. W. FERRINE, Breeder of High-Class Dark Brahmas, LEGHORNS and Plymouth Rocks, Address: W. W. FERRINE, Chicago, Ill.</p>	<p>JOHN A. LAMBING, Breeder of High-Class White Leghorns LIGHT BRAHMAS BEKIN DUCKS, Address: JOHN A. LAMBING, New York, N. Y.</p>
<p>D. JONES & SON, Breeder of High-Class Prime Buff Cochins. Address: D. JONES & SON, Chicago, Ill.</p>	<p>J. Y. BUCKNELL, Waukegan, Ill. Breeder of High-Class LAND and WATER FOWLS, PIGEONS or RABBITS, Address: J. Y. BUCKNELL, Waukegan, Ill.</p>	<p>W. H. FAXON, Breeder of High-Class Light Brahmas and Leghorns and Breeder of the BUFF COCHINS. Address: W. H. FAXON, Waukegan, Ill.</p>

Reproduction of a page advertisement from an American Poultry Journal of many years ago, showing the ad of Mr. Felch beside that of Philander Williams.

nounced on in shows, in every part of the country for years on years. He was the schoolmaster who taught a generation of fanciers how to judge fowls."

In writing of Felch in 1883, the editor of the *Poultry Monthly* said: "His writings, which can be found in the files of the *Massachusetts Plowman*, *American Cultivator*, *Country Gentleman*, and many other publications, including the several poultry journals, represent an encyclopedia of his experience as a poultryman. In his articles and actions as a judge he has been independent and fearless, adhering to the 'Standard of Excellence' according to his best judgment. It is safe to say if Mr. Felch doesn't know a good bird when he sees it no man does."

I. K. Felch did important work in bringing about the organization of the American Poultry Association and in the preparation and adoption of a Standard. In fact, when Standard making was needed, Felch's ability in that direction was usually called into action. An interesting story in this connection is told in an article on Langshans in *AMERICAN POULTRY JOURNAL* for April, 1917. The Langshans had been



The above illustration is reproduced from *American Poultry World* for January, 1910, and accompanied an article by H. H. Stoddard, in which he paid a tribute to I. K. Felch as one of "The Three Main Pillars of Standardbred Poultry Culture in America."

to mean to the buying public a guaranty of quality whether for breeding or exhibition purposes. During recent years he has bred chiefly White and Barred Plymouth Rocks, White Wyandottes, and his original pedigree strain of Light Brahmas, which latter, according to the published records, he founded about 1847. He was a lover of all thorobred stock and interested in all livestock breeding. At one time he was advertising Jersey cattle and collie dogs quite extensively, as well as his several breeds of poultry.

We believe that Mr. Felch was one of the first breeders to adopt the plan of "farming out" mated breeding stock and eggs for hatching to have stock reared for him, thus giving profitable employment to many people in the neighborhood of his home town and securing for his customers a larger number of desirable sales specimens to select from.

He was always a friend and helper of the beginner in poultry culture, ever ready to extend a helping hand, and always recognizing the beginner as the very life of the Standardbred poultry business of the future, and during the last few years his writings have been almost wholly for the purpose of aiding the novice. It is a matter of record that he made his maiden speech as a lecturer on poultry in 1873. Since that time, and particularly since the development of poultry courses at our agricultural colleges in later years, he became one of the most popular of lecturers on poultry subjects. About thirty years after Uncle Isaac made his maiden speech, we had the pleasure of giving a talk to a class at an agricultural college immediately following an all day's session of the class with Mr. Felch. The students had been greatly impressed with Uncle Isaac and he had given them much to think about, as well as the time of their lives—for he possessed a rare gift of real American humor. We certainly enjoyed the nice

things which both class and the instructor had to tell us about the day with I. K. Felch. Beginners always liked him, he knew how to get their interest and how to hold it. He was always cordial and ready to talk, and, to use one of his own phrases, "He could speak so you can see it."

Always a strong supporter of the American Poultry Association and a power in the building of its Standard, he was made president of that organization in 1898, and the year following, on retiring from the presidency, he was appointed a member of the advisory board.

The funeral services of I. K. Felch were conducted by the Meridian Lodge of Masons, of which he was the oldest member. He leaves a daughter, Mrs. W. O. Hunt, and a son, Arthur E. Felch, who was associated with him in business and is well known in the poultry fancy.

THE FOLLOWING WAS WRITTEN BY CAPT. JAS. E. WHITE, AND APPEARED IN THE SEPTEMBER, 1878, ISSUE OF THE AMERICAN POULTRY JOURNAL, FORTY YEARS PREVIOUS TO MR. FELCH'S DEATH.

I have often thought when reflecting on the physical construction of man, that the great Architect did not comprehend at the beginning how much his grandest work would have to contend with; sickness makes fearful inroads upon man's earthly tenement, and life's battle against want and intellectual serfdom gradually but surely wears away the resisting power necessary to confine the steam generated by the eternal fire burning in the fire box at the head of the human engine; year after year the waste goes on, and man, when he should be in his full strength and vigor, is a wreck only fit to be sent into the shop for repairs. Man should have been made

with the strength of an engine, with action swift as the lightning, and rugged and enduring as the everlasting hills. This is what man should have been, but is not. What a grand work such a man could have accomplished and what a curiosity he would be to us poor devils.

The man who, in my opinion, approximates the most closely to what man should have been is I. K. Felch, of Natick, Mass. He is a combination of physical strength, great nervous action, which is kept in subjection by a strong judgment and intellectual manhood. Work that would make ordinary mortals groan as if upon a rack, and grow prematurely old, is boy's play to him, and all he undertakes is accomplished systematically and, of course, is well done; in his specialty he can carry on the work of a dozen other men and come out fresh and blooming as a daisy. In breeding fowls he follows no theory, but is guided by an experience which is worth more than all the theories ever advanced, and his success and stock

demonstrate that the lessons of the past have not been rudely cast aside and forgotten.

Some of the best of the stock owned by him is kept at his own place, and receives his constant attention, but a large number of well-to-do farmers, living within a few miles of Natick, are pressed into the service and annually rear large flocks of thorobred chicks for him. In all such cases Felch mates up the breeding stock and examines the young weekly; no move is made without consulting him, and the man who violates the confidence reposed in him had better pass in his checks and move to a more congenial clime. Some of the finest Light Brahas I ever saw were in his yards, and his other stock was as fine as can be found anywhere East. One farmer was breeding two fine yards of Brown Leghorns for him, and I must say I never saw such magnificent birds of that variety in my life. Writers may say what they please about Felch's ideas of breeding, but a visit to his yards will convince any intelligent breeder that he knows what he is about.

Is Everything Shipshape for Winter?

Make a List of What Must Be Done to Place Your Birds in Good Quarters Before Cold Weather Comes. First Prize Article American Poultry Journal Monthly Contest.

By Marion Morse Ewing

AS THE cool, frosty air whistled across the open stretch by the poultry house this morning, did it remind you that everything is not yet in readiness for the long cold winter to come? Yes, there are a good many things to be done before the ground hardens and feathery white snow flakes cover the earth. During the past month I have been making a list of these things from time to time as I happened to think of them. The "must be done's" come first, and after those there is a long list of "near" necessities which I hope to gradually cross off the list as I am able to accomplish them.

I consider the housing of the pullets of first importance. If they are to begin laying early, they must be comfortably housed by October. Accordingly I spent a good part of my spare time getting the house in readiness for them. I just set to one sunshiny day and had a thoro housecleaning, took everything out of the house that was movable, gave the whole

interior a good sweeping and spraying, cleaned the floor, and then went outside and scrubbed up all the equipment, such as nests, hoppers, drinking fountains and perches. While these were given a further sunning after cleaning, I applied more disinfectant in cracks and crevices.

When the house was thoroly dried and aired out, I placed fresh litter on the floor (fortunately I am able to get straw), put the equipment in place with freshly filled hoppers and drinking fountains and in the evening moved the pullets, which I have been banding from time to time as I select well developed birds, into the house. For the first two or three days I keep the birds in the house, supplying them with waste greens from the garden. This is done to accustom them to their new surroundings so there will be no difficulty in their returning to their new quarters when allowed on range. In the course of a few days, I allow them in the small yard which is wired in, and by the time I have picked the tomatoes and other late vegetables which they are apt to destroy, they are given free range over the farm until snow comes. I believe this fall range helps greatly in the final development of the pullets and in sending them into the winter lay in a robust, healthy condition. After a month or six weeks of picking around the farm where grain and weed seeds of all kinds are plentiful, and greens are everywhere to be had for the picking, not to mention all kinds of bugs and worms, the pullets are in the very pink of condition, as their bright colored combs and sheeny plumage attests.

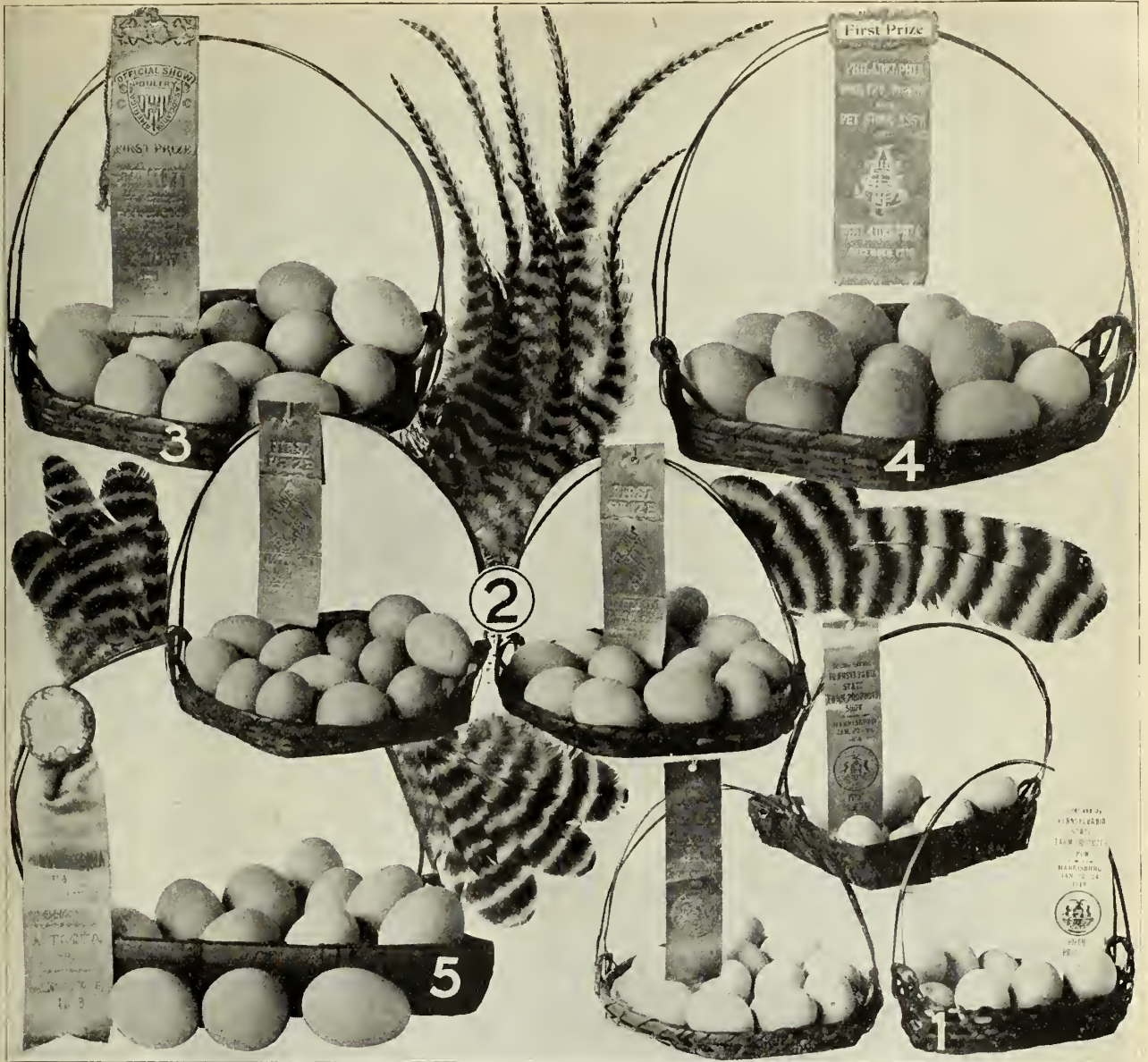
When I have crossed off of that long list "housing of pullets," I feel that the first lap of the race with Old King Winter is won, and I go about the other little tasks whenever opportunity offers with a light heart. There is the yard to be spaded up and sown to rye, and the pullets to be given frequent dustings, and the corn fodder to be shocked along the north side of the yard as a windbreak, and the cockerels to be sorted over and disposed of as their development admits, and a sharp lookout kept up for rats and mice. At this season of the year, these rodents are trooping in to shelter for the winter and they are sufficiently quickwitted to pick out a poultry or feed house where there is no danger of the larder becoming depleted. The fall is the finest time of the year to kill off rats and mice and it is time well spent. Every one killed means a dollar or two saved for the one who is paying the feed bills. It takes some time to get the rat and mouse extermination crossed off the list. In fact, I really never get it crossed off, but keep up an eternal fight against them, but I always put it on the list in large letters and every little while I make a cross after it, showing them I have killed off a millionth part of the horde which is constantly besetting our grain stores.

Every few days when I am about the fowls I keep a



SILVER KING II,

Champion Silver Campine three consecutive years at Chicago Coliseum Show. Owned by Frank E. Hering, South Bend, Ind.



Some prize-winning eggs, produced by J. W. Parks, breeder of Barred Rocks, Box J, Altoona, Pa. (1) First, third and fifth prize best dozen brown eggs, Harrisburg, Pa., State Agricultural Show, over 100 dozen competing. (2) First prize best dozen brown eggs, Rochester, N. Y. (3) First prize best brown, first prize heaviest brown eggs, Johnstown, Pa. (4) First prize heaviest dozen brown eggs, Philadelphia, Pa. (5) First prize best dozen brown eggs, Altoona Show, over 1,200 eggs in show.

weather eye on the good lookers. There is the pullet which I have had marked for the show room for weeks back and sometimes she doesn't seem to be coming on just the way I had hoped she would. The other morning I was more than surprised to find another pullet in the flock which had completely eclipsed my best one. And so that means that both of them are going to the show. I had only intended to send a hen and a pullet, but already I have three marked for entrance and before the entries close I may add to that number. Of course, I have to spend a little time every day with these birds—just a few minutes—and now they are as easily handled as I could wish. I have the egg record of the hen for her pullet year and if she does anything like as well this year, and gets placed at the show, I shall feel that fancy and utility go hand in hand in this specimen.

During the first weeks the pullets are in their new quarters I spend a few minutes every evening seeing that they are not crowded on the roosts, or acquiring that filthy habit of roosting on nest boxes. I spread them out fairly even on the roosts and if they take to roosting on hoppers, fountains or nest boxes, I rig up some device to prevent their getting a foothold on any and all of these places. If they cannot get on them, they will quickly take to the roosts provided for

them and there will be no further trouble along that line. There should also be enough nests provided so that no necessity exists for crowding on the nests or laying on the floor.

I endeavor to store as many greens for winter feeding as I can. Cabbage and mangels and small potatoes are all good, and while I do not supply the birds with anything like as much in the green food line in winter as I am sure they would consume if they had it, yet the little they get makes variety and supplies a valuable food.

For record keeping I find a record blank posted in each house the most convenient way. A pencil fastened by a cord to the wall should be attached. Many people feel in these strenuous times that they cannot afford time to keep records. It requires very little time to keep flock records and it is a great satisfaction to know at the end of the month just what the flock has done to pay its board bill. I have become so accustomed to keeping egg records that I do not feel that I could keep poultry with any degree of satisfaction without a record of the number of eggs laid. Individual records require almost constant attendance and while I have done this with some flocks in years past, I cannot now give the time to it that I would like, but flock records are possible for every poultry keeper. I count the eggs as I gather them and mark

them down on the record before leaving the house. If the birds do not seem to be laying well when it is time that they should lay, I test them and discard those that show no prospect of laying. This happens once in a while, but it is rare to find a well grown, rightly developed pullet which will not respond to good food and good care by laying a reasonable number of eggs. There is, however, always a chance to weed out unprofitable birds in a good-sized flock of poultry. Birds that have been laying heavily sometimes break down and should be marketed. With present prices of grain I do not like to keep the unlikely cockerels a day longer than I can avoid, so what I don't sell, I can. The meat of the young cockerel is better than it is when the birds are older

and the expense of feeding is avoided by early canning.

As the cold weather approaches, there is one danger which should be guarded against, and that is the habit of babying the fowls. On the first cold night, the houses are frequently tightly closed or curtains are put down in front of roosts. The cold weather comes on by degrees and all the time the fowls are becoming accustomed to it. Moreover, they are getting a fine coat of feathers and down and they should be getting plenty to eat; so why worry about a frosty night? Just leave the door or the front all open, making sure the birds are not in a draft, and that the roof is fairly tight, and there will be no danger from colds or secession from laying every cold snap.

The Value of a Good Poultry Paper

The Poultry Journal Is the Backbone of the Poultry Industry and Should Have the Support of Everyone Engaged in the Work. Second Prize Article American Poultry Journal Monthly Contest. *By W. H. Hood*

IN ALMOST every walk of life we find those who are eager to acknowledge that which most has helped them to succeed, for while success lies within the effort put forth by the individual, yet invariably some outside influence has been the deciding factor. Only a very short time ago, I knew absolutely nothing about poultry keeping. It was a subject that I had not even thought about. I was fond of poultry and eggs as food, but that was as far as my interest in poultry extended.

With the urgent call for more interest in food production, I began to think of what I could do to help out. We have a fine orchard plot back of our house in a good-sized town, and it seemed to me that poultry was about the only meat food that I could produce. I thought of sheep and hogs, but there were reasons which prevented raising either of these animals on our land and accordingly I began to look about for a flock of hens.

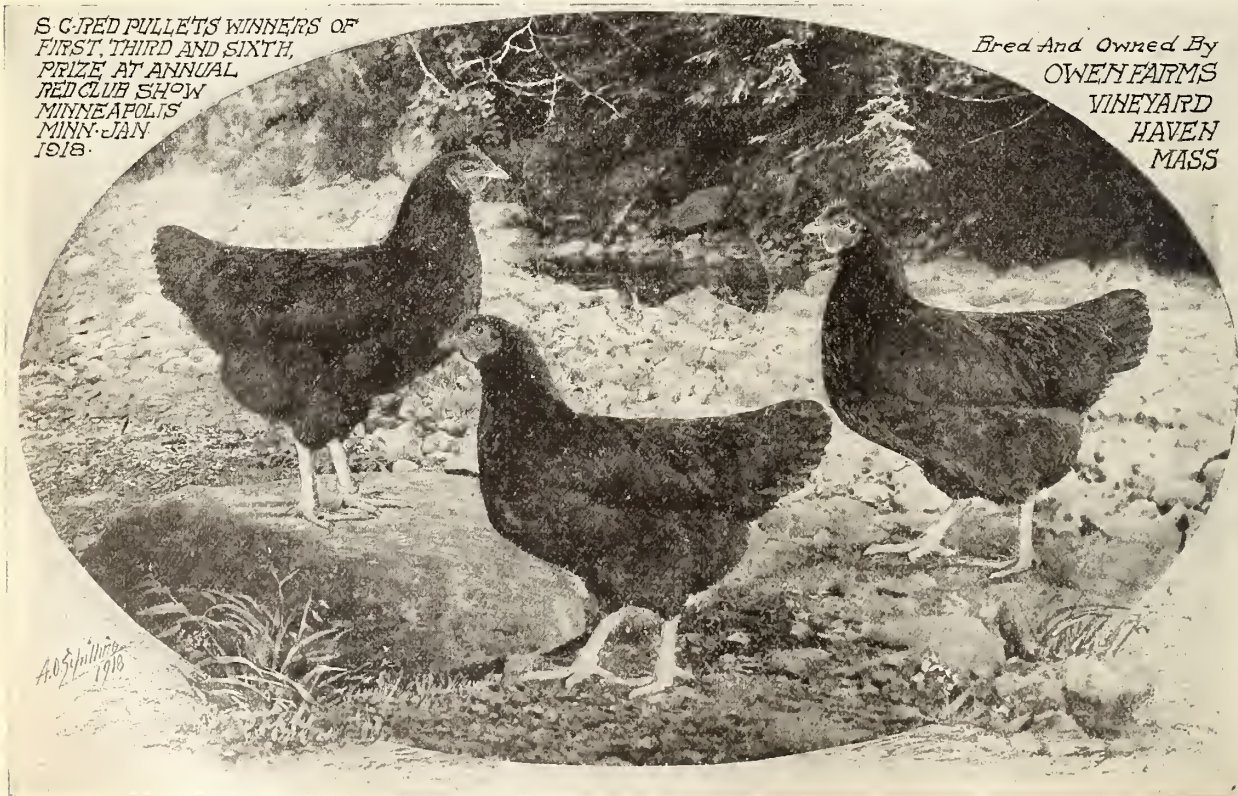
I inquired several places where I had seen poultry, but it seemed to me that people were asking tremendous prices for poultry and I resolved not to be taken in. Just about this time as I was waiting for my train to be made up one evening

and I was casually looking over the offerings on the newsstand, I noticed a copy of a poultry journal and immediately purchased it. I had never noticed or thought of there being such a publication before and as I read it, going out on the train, it was somewhat of a revelation to me. I was greatly interested in the advertisements and somewhat amazed when I read prices on breeding stock offerings. For several days I read and reread that paper and it seemed to me that poultry was a very exhaustive subject, but I resolved to learn a little about it every day and to engage in the undertaking.

I made my start by purchasing 100 day-old chicks from an advertiser in the JOURNAL and rigged up sufficient makeshift equipment to care for them, from suggestions read in the JOURNAL and felt myself fairly launched in the business. But there were so many things I did not know that I very evidently needed to know, and wanted to learn, that I thought it would be a good plan to take all the poultry journals I could, and read them all carefully. I had purchased a book or two and was gleaning considerable information from them, but there were lacks in my knowledge of poultry keeping that needed rectifying. I was somewhat disappointed in some of

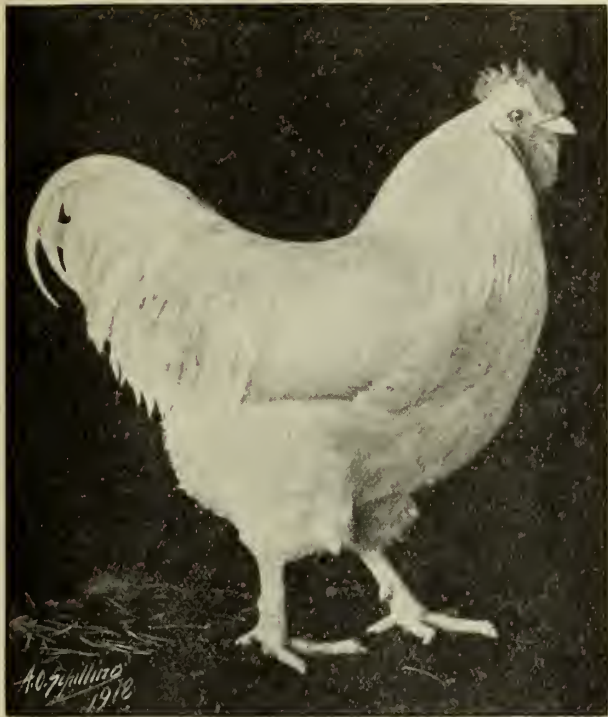
S C-RED PULLETS WINNERS OF
FIRST, THIRD AND SIXTH,
PRIZE AT ANNUAL
RED CLUB SHOW
MINNEAPOLIS
MINN.-JAN
1918.

Bred And Owned By
OWEN FARMS
VINEYARD
HAVEN
MASS



Ad. J. Williams
1918

the poultry papers after I got them and looked them thru, but in addition to my "one best" I decided to subscribe for one or two others, and thus my education began.



A Single Comb White Orpington Cockerel owned by Robadel Poultry Farm, Cos Cob, Conn.

With the first day-old chicks I did not succeed very well, for it was early in the spring and while we were having a cold, damp spell of weather. I did not know enough to realize that the chicks were cold and uncomfortable and in the course of a few weeks I only had forty of the one hundred left. Not being discouraged, I bought 200 more White Rock chicks. It was in April and the weather was fine. I had been reading up a lot relative to the care of day-old chicks, how they should be fed and mothered, and the necessity of their having a warm place to flee to when cold or damp. I saw that a poultry farm not a great distance away was selling off several breeds which were about to be discontinued, and I happened to visit this farm a day or two before my day-old chicks were due to arrive. Among other breeds being sold, there was a fine flock of Rhode Island Reds in which there were several dozens of broody hens. I carried home in the back of my little Tin Liz ten of these hens—great motherly, patient creatures, which their owner assured me would make ideal mothers for the chicks about to arrive. Following the advice in the AMERICAN POULTRY JOURNAL, I placed these hens on darkened nests, after having thoroly dusted them, and when the chicks arrived a few days later, they were divided up among the ten hens and placed under them at night.

It seemed a little to me like going it blind to place these perfectly good, fluffy chicks under those great heavy, ungainly hens and then go away and leave them all night to their fate, but in the morning they all seemed to be as contented and happy as if they had made the arrangement themselves. These hens proved to be the greatest labor savers that I have ever employed. They relieved me of all the trouble of trying to keep those 200 chicks warm and comfortable and that was some stunt. I followed a plan of feeding which one of the editors of the AMERICAN POULTRY JOURNAL had recommended, gave the chicks the run of the orchard, watered them regularly and never saw a finer sight than those growing, hustling chicks, picking about in the orchard. They grew and developed well, and we began eating the cockerels early in the season.

There was an open shed on the place which we converted

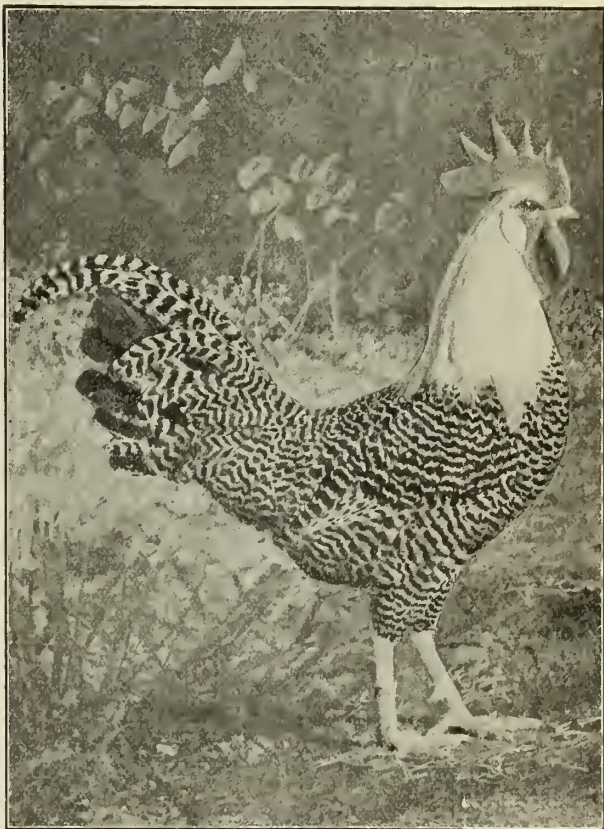
into a poultry house, following plans which I read in the JOURNAL. It was some undertaking to decide which birds should be kept and which we should eat, but in the end most all the pullets were found to be well developed and healthy. so they were placed in the converted laying house early in the fall, according to "Hoyle" (AMERICAN POULTRY JOURNAL) and they lived right up to what was expected of them by beginning to lay in November—Thanksgiving week, to be accurate. We kept a few of the cockerels, and some of them will go into our breeding pens this winter.

Thru that long cold winter, and it was the coldest one within the memory of the oldest inhabitant, we fed and cared for our birds according to the rules laid down in our favorite JOURNAL. The laying kept up well thru the winter, like the grain prices, but we were not discouraged, because those new-laid eggs tasted better than any food we were able to buy. I carried eggs in and sold to others in the office two or three times a week and got the top market price for them, with no extra expense for marketing.

As spring approached, I was undecided whether to attempt the hatching of chicks or to again purchase day-old chicks, but as my time was limited I decided not to attempt home hatching and again placed my order where I had received honest and courteous treatment the year previous.

The chicks arrived in good order and altho conditions were equally as good for successful rearing of chicks, I lost a greater percentage the past season than in my novice year. However, I have an extra fine bunch of pullets now in the laying house, and we have some rows of canned cockerel on the pantry shelf, as well as a goodly flock of surplus birds in the cockerel pen.

As I look back over the past two seasons I cannot refrain from asking myself, to what main factor do I owe my success with poultry? There can be but one answer. Whatever success I have attained along this line, is due to the sound, helpful advice which I have gained month by month from the columns of a good live poultry journal. How otherwise could I have reared these fine flocks of fowls, kept them in health and in laying, when as a matter of fact less than two



First prize Silver Campine cockerel at Chicago Coliseum Show. Owned by Frank E. Hering, South Bend, Ind.

years ago I did not know upon what poultry subsisted?

Apparently few poultry keepers realize what a great proportion of their success they owe to the poultry papers. I have visited a number of small plants during the past summer and in every case found the owners following suggestions which they had adopted from having read them in such and such a poultry paper. The poultry paper is the means by which all the latest and most practical methods of poultry keeping from every part of the country are gathered together, and sorted, and placed on file, for the good of every other poultry keeper. If a man in New Mexico conceives a useful, practical device for labor saving in his poultry work, he writes about it to the "Readers' Open Forum," and men and women engaged in similar work in all parts of the country are benefited thereby. Or a poultry keeper in Maine, or Pennsylvania or Kansas has a good idea in regard to co-operative selling and buying, he writes about it to the editor and presto! next month sixty thousand or more poultry keepers read about it, and as the months go by, the co-operative buying and selling among poultrymen becomes a fact. A man has an idea that he can tell which hens are laying or

about to lay. He writes it to the poultry papers, and everywhere poultry keepers adopt the idea and thousands of non-productive hens are marketed in every city thruout the land, and the grain these hens should have otherwise been wasting put into hens and pullets which are shelling out eggs.

Poultry and eggs are two of the finest food products we have. Knowing this, and considering the work which first-class poultry magazines are doing in educating novices like myself in the art of producing poultry and eggs, how shall we estimate the real value of the poultry paper? As one who realizes what he has gained thru reading poultry periodicals I would place the economic value of this class of literature very high, and foremost among essential publications. Let each reader of this and every other poultry periodical stop and consider what it means to him to have at his command a central office in his favorite poultry magazine, which is ready to answer all calls, emergency or otherwise, and to give him the benefit of the experience of poultry workers from every section of the country. The poultry journal is the backbone of the poultry industry and should have the support of everyone engaged in poultry work.

Poultry Work in Winter Quarters

Suggestions for Fall and Winter Care of Breeding and Laying Stock.

By Prince T. Woods

THE end of October should find breeding and laying stock safely housed in permanent winter quarters. If the growing chicks have been properly cared for during summer and early fall, the first pullets should be well advanced in laying, while later ones are making rapid progress toward maturity.

The yearlings, and selected two-year-olds, should have finished or be nearly thru their molt, and should be plump and in good condition to resist the rigors of coming winter. Fowls which have had good care during summer and autumn can be depended upon to do good work as winter layers, but if they have been neglected and do not go into winter quarters in good order, there is little hope of getting them into lay before Christmas.

When fowls go into winter quarters they must not be shut in too closely. While the mild weather lasts, the closed houses should be run wide open, taking care that there are no thin air currents, or drafts, about the roosts at night. With modern open-front houses, the caretaker will not have to worry about the ventilation. Poultrymen using ordinary types of closed houses will find this matter of ventilation of vital importance at this season of the year. Where open-front houses are used the birds are sure of a plentiful supply of fresh air at all times, and this is important in the prevention of late fall and winter diseases. Fresh air all the time is absolutely necessary for keeping the birds in best health and vigor.

If one begins the practice of shutting the fowls up snugly in a closed house, without due regard to proper airing at frequent intervals, the birds are almost certain to develop catarrhal colds which may later develop into roup. Thin drafts of cold air in a close house will sow the seed for more sickness in a single night than would be likely to make its appearance were the fowls allowed to roost in the open exposed to the elements. Too close confinement in any tight, ill-ventilated house is equally certain to be productive of disastrous results. The front windows of closed houses should be kept open night and day when weather will permit. When cold, stormy weather comes, the windows may be closed at night, but should be open for the greater part of the day, particularly when the sun can shine in. Usually it is better not to entirely close the front windows at any time and they can be fitted with burlap screens to keep out snow and rain. Failure to properly air the house will cause "house sweating" and dampness, and the flock will not thrive in a damp house. Fairly deep poultry houses, with roosts at the rear well back from the entirely open or partly open front, the front having a southerly exposure, make the most satisfactory winter quarters.

There is a big difference between using well-ventilated or open-front houses and permitting fowls to roost out in the open—the difference between comfort and discomfort. Roosting in the trees may be productive of no harm in summer and early fall, may be beneficial in some cases, but in the greater part of this country, except the far south, harm may result if fowls are allowed to roost out of doors when the severe and changeable late fall and winter weather sets in. The open-front house affords comfort and protection. The birds are well sheltered by a tight roof overhead, snug side and rear walls protecting the roosts against draft and preventing too great loss of natural bodily warmth, and the cold, chilling winds and storms cannot reach them, while they have an ample supply of fresh air, which is essential to life and health.

Of equal importance to a comfortable, well-aired, roomy house, is liberal feeding on sound wholesome food in reasonable variety. An elaborate ration is not necessary. Many grains and seeds are useful for poultry feeding, and in normal times a wide variety of ground feeds may be available, but one can get excellent results with a very simple ration. Simple rations, made up chiefly of the more readily obtainable feeds in the home locality, should rule in war time,

Exercise is desirable when birds are confined in winter quarters. It helps to keep them out of mischief and helps to prevent bad habits like feather pulling and egg eating, as well as keeping the birds in good condition with keen appetites.

Part of the grain ration fed in plenty of litter is the best way to promote exercise. Automatic feeds may be used to scatter the grain and are great labor savers. Bright, sweet, clean, new straw makes the best litter. Wheat and oat straw is preferable to rye straw, as rye straw sometimes is affected with a dangerous smut which will poison fowls. Forest leaves—free from mold—pine needles, hay-mow chaff, chaff from the grain cleaners, and planer shavings all make good litter material. Hay is the least desirable, as fowls are certain to eat more or less of it and some may become crop-bound. Litter material must always be clean and sweet, never musty or moldy. It should be removed to the manure pile when it becomes damp and fouled, and a fresh supply provided. The spores and germs which multiply in moldy, musty, damp and rotten litter will cause canker, chicken-pox and other diseases.

A simple and satisfactory grain ration, for use in automatic feeders or scattering in the litter, may be made by mixing 20 pounds of sound corn, either cracked or whole, with 10 pounds of heavy, clipped white oats—feed wheat and barley mixed may be used in place of oats if available. Supply also a good dry mash mixture in a hopper. Beef scrap may be

fed separately in another hopper or fine beef scrap or fish meal, or both, may be combined with the mash mixture. Succulent vegetable food should be fed liberally. An abundance of clean fresh water must be provided. Clean snow will serve in place of water in extreme cold weather. Raw vegetable food is best fed in racks or from pockets of poultry netting on side walls of house. Give only as much as is readily cleaned up each day.

As long ago as 1864 the Massachusetts State Board of Agriculture recommended a similar ration for laying fowls in winter and such rations have been in successful use ever since by many practical poultrymen in New England who make a business of producing market eggs. Here is an extract from an article by E. A. Samuels, published by the Massachusetts Board of Agriculture in 1864:

"The poultry house prepared and the flock selected, the farmer should see that they have proper care and food; that unhealthy fowls are restored or removed; that those hens which incline to sit are provided with eggs; and that chickens when hatched are taken proper care of. Fowls in confinement require an abundance of pure water, ashes to dust in, and nourishing food. Of grain, equal parts each of Indian corn and oats is very acceptable; at least three times a week scraps of meat should be thrown to them, and a supply of crushed oyster shells or clam shells should be accessible at all times. Green sods also thrown frequently into the fowl-yard will be of great advantage. These few attentions are all that is necessary with laying hens."

These simple rules for poultry feeding have continued to give satisfactory results for more than half a century. We have improved on them by keeping beef scraps and mash before the birds, supplying prepared clover and alfalfa and succulent vegetables in place of green sods, which are not often obtainable, but some of our war-time rations have followed Mr. Samuels' plan pretty closely.

A good dry mash for winter feeding may be made of 25 pounds each corn meal, standard wheat middlings, wheat bran, and fine beef scraps, all well mixed and fed from a hopper. Equal parts beef scrap and fish meal, or all fish meal may be used in place of all beef scraps if desired. Cut-clover or cut-alfalfa, in the proportion of about 15 percent by weight, may be used in the mash. Or this cut hay may be scalded and fed separately once daily. Season water used for scalding with a little salt.

The dry method of feeding requires less labor than any other plan. The scratch grain may be fed from a feeder and the mash from a hopper. Feeding may be once a day or once or twice a week, according to capacity of feeders and hoppers. If these devices are used they should never be permitted to become empty. Dry feeding will yield good results, but there are many poultrymen who still cling to moist mashes for their flocks. In feeding a moist mash it apparently makes little difference whether the mash is fed in the morning, at noon, or at evening—whichever is the most convenient—so long as a regular system of feeding is carried out. Heavy feeding in the morning with a bulky moist mash is likely to promote a lazy habit in the flock and the greedy ones may gorge and then seek some quiet place to sleep it off. We would prefer to feed a moist mash later in the day and keep the birds busy scratching for grain in the litter.

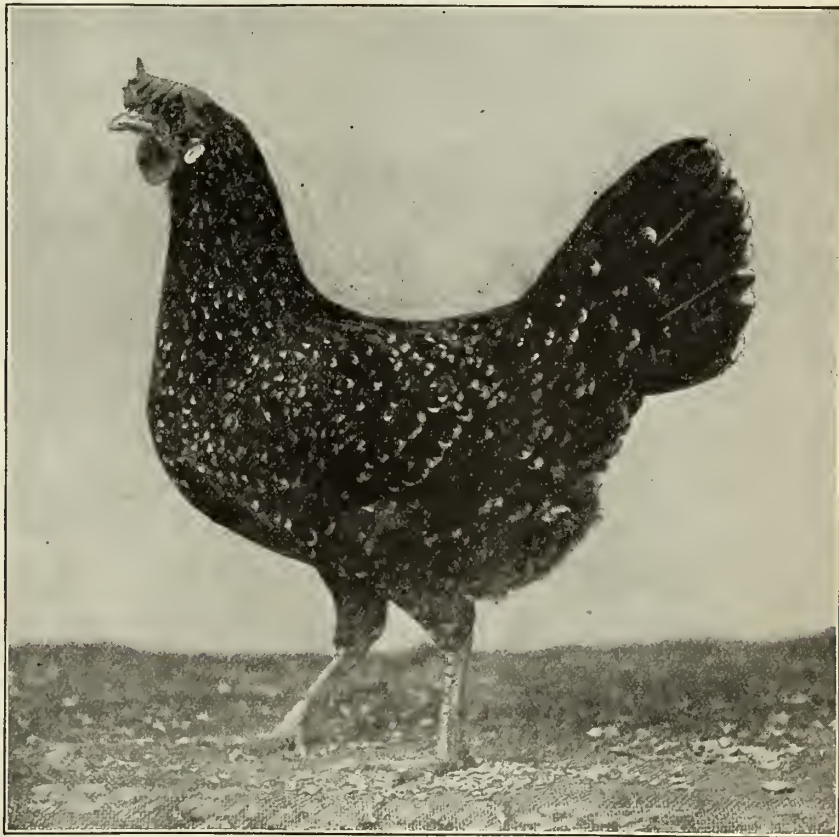
A good moist mash may be made by mixing equal parts by weight of corn meal, ground oats, flour middlings, wheat bran, and beef scraps. Scald a quantity of cut-clover or alfalfa—about 15 percent of the ground grain to be used—

with lightly salted hot water. Use enough hot water to mix the whole amount of mash required. Then mix in enough mash mixture to make a crumbly mash. Let stand until sufficiently cool for feeding. The scratch grain used with this mash may consist of a mixture of two-thirds corn and one-third oats, with about 10 percent of feed wheat added. Some who feed moist mashes feed once a day, giving the whole daily allowance of mash and grain at one time. Others feed scratch grain in morning and mash in mid-afternoon, scattering sufficient hard grain in litter at time of mash feeding to insure fowls going to bed with full crops, and of there being enough grain left in litter to start them to work when they leave the roosts in the morning. When a hen scratches in litter she should find enough to pay her for her work. The precise method of feeding does not matter so much, but it is absolutely necessary to adopt some method of feeding and then be regular as clockwork about it. Fowls must be kept well fed if they are to be productive.

Granulated charcoal, grit, crushed oyster shells and water should be kept before the fowls at all times.

Back-lotters and small flock poultry keepers will generally find that the ready-mixed scratch feeds and mashes are more convenient for their purpose than home-mixed rations, and as reasonable in price, present conditions of feed and grain market considered.

Fowls which are to be used for breeding next spring should not be forced for eggs now. It will be best to keep them on a diet of chiefly hard grains and vegetable food, feeding but little concentrated mash. Where dry mash in hoppers is used, arrange the hoppers so that they can be closed for greater part of day if desired, when feeding breeding stock. When eggs are soon to be required for hatching, the mash can be fed more freely, but do not jump from short rations to heavy feeding. Feasting-after-famine conditions are likely to be followed by molt. Cut-clover and cut-alfalfa are aids in securing fertile hatchable eggs. Flocks kept for egg production should have plenty of concentrated mash, they should consume approximately as much mash as hard grain, weight for weight.



First Single Comb Ancona pullet, Madison Square Garden, New York City. Bred and owned by H. Cecil Sheppard, Berea, Ohio.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

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United States, Cuba, Mexico and United States Possessions (except Chicago).....	1 Year \$0.60	3 Years \$1.00
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Foreign	1.10	2.50
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Chicago, Canadian and Foreign subscriptions require additional postage and therefore the slight difference in prices.

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TRADE MARK REGISTERED,
No. 74,059.

Issued the first of each month.
Published by

American Poultry Journal Publishing Co.

JAS. W. BELL, President,
523 Plymouth Court, Chicago, Ill.

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Advertising Representative,
E. G. ALDRICH.

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53,000 American Poultry Journals for
October, 1918.

State of Illinois, County of Cook, ss.

Chas. S. Peterson, secretary of the Regan Printing House, Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 53,000 copies of the October, 1918, issue.

CHAS. S. PETERSON.

Subscribed and sworn to before me this
20th day of September, 1918.

(SEAL)

ALICE A. SHEHAN

Notary Public.

A New Constitution

Among other things of interest to the poultry industry the forty-third annual convention of the American Poultry Association, held in Chicago, August 12-15, decided that the association needs another new constitution. The new constitution committee, which is to report to the 1919 annual meeting, includes Thomas E. Quisenberry, Frank W. De Lancey, Grant M. Curtis, John S. Martin and Charles D. Cleveland. This committee is to confer with all members of the A. P. A. and the different state organizations in order to prepare a constitution broad enough to meet the needs of these strenuous times. A worthy object, but it will take some vigorous action to keep pace with the times at the rate history is making and established customs are being revolutionized nowadays. Those who have suggestions to make should put them in writing and send same to Thomas E. Quisenberry, Box 206, Leavenworth, Kansas.

It is strange how so many of us turn toward constitution mending and new constitution building as a sort of panacea for all organization and administrative ills—is this because we are so thoroly imbued with the necessity for "constitutional vigor" in our breeding flocks? There are times when it does seem as if we have rather an oversupply of laws and rules and a decided lack of common sense interpretation and application of same. Editor De Lancey, one of the new constitution committee, is enthusiastic over the prospects and, if one may judge from editorial comment, thinks that a new constitution will prove the remedy for all ailments with which the A. P. A. is supposed to be afflicted. He says, in part—

"It did not require a Moses to lead the A. P. A. out of the wilderness. Take another guess.



"A new constitution means reconstruction and reconstruction means rebuilt."

We do not question the good intent in the above quotation, but we believe that it will be wise to get "out of the wilderness" before we begin to crow about what we are going to do. If we must brag, the bragging would have more grace if it followed actual accomplishment. Too often the greater part of enthusiasm is wasted in boasting about what is going to be done, and it soon peters out, so that too little effort is put into the real work which needs to be done.

A new constitution does not necessarily mean reconstruction or rebuilding. The American Poultry Association adopted an entirely new and carefully prepared constitution four years ago, at the thirty-ninth annual convention, in Chicago, August, 1914. It was prepared by a committee appointed at the Atlantic City convention in 1913, at least one member of which is on the present new committee. The resolution calling for a new constitution at Atlantic City meeting referred to "the last general revision of the constitution and by-laws, which took place in 1906," and explained the need of a new constitution because of rapid growth of the organization, a wider field of activity, the many branch organizations, and the rapid expansion of the poultry industry. This new constitution was discussed and adopted section by section at the Chicago convention of 1914. Men with wide experience in organization work helped to build this constitution of 1914 and, as a whole, it was considered to be both desirable and suited to the needs of the times. There are many members who feel that there have been many official acts since its adoption which were not in accord with the letter or meaning of this constitution. We may safely assume that the new constitu-

tion, adopted at the beginning of the big world war, did not rejuvenate, reconstruct or rebuild the A. P. A. It takes far more than the adoption of a constitution, or the promise of a new constitution a year hence, to rebuild an organization.

If the A. P. A. is to undergo reconstruction and become modernized, there is much that needs doing and every member will have to help. We still believe that a real leader is needed, and up to present writing we haven't seen anyone exhibiting symptoms which would qualify him to be the Moses of the A. P. A. We need not give up hope on that account, for real leaders have a habit of being born of emergency out of unsuspected material and ours may arrive at the critical moment.

Please do not misunderstand us. We have no desire to attempt dictation of the conduct of A. P. A. affairs. Our comment is intended as suggestions for the good of the cause, an expression of our views and nothing more. From our point of view the A. P. A. has had an overdose of editorial and supply business control and too little activity by real poultrymen. The editors, manufacturers, supply and feed dealers certainly should provide substantial backing for the A. P. A.—it is to their best business interests to do so—but they should let the breeders of Standardbred poultry run their own organization.

From our viewpoint the A. P. A.'s troubles are largely due to inactivity on the part of members who should be among the most active, and to administrative and financial mismanagement rather than to faulty constitution—altho the constitution may need revision in spite of the fact that it has been subject to almost continuous tinkering. Such constitutional changes as may be necessary could more easily be secured thru amendments than by adoption of an entirely new constitution, and at less cost in all probability. We venture the statement that only a very small percentage of our membership, including the officers, are familiar with the contents of the present constitution as amended to date.

We have too few members who are really active and too many who are really "dead wood," members who were solicited to pay for a \$10 life membership to swell the returns at some annual meeting and who ceased to show any sign of interest thereafter. The present manner of conducting annual conventions is a handicap. A few members of "the machine," who get their expenses paid by the association or by private interests "with an ax to grind," can usually be depended upon to attend all conventions, but the average member, living at a distance from the convention city, cannot afford to attend or cannot get away from his business. Such representatives of the "rank and file" as do attend the meetings are drawn from nearby sources and include both new and old members, often largely new, many of them attending their first convention and the local group at each convention being made up very largely of persons wholly unfamiliar with A. P. A. affairs and the issues under consideration. This gives the "hot air" orators a big lever with which to sway the sentiment and control the vote of the convention. It is not good business.

It seems to be pretty generally conceded that the A. P. A. needs to be reorganized and modernized. What is the best way to bring this about?—certainly not by clinging to old methods and established precedent. As has been suggested by several earnest

members, it would seem to be wise policy to attempt reconstruction from the outside of the circle toward the center. That is, build up the organization along the governmental lines which have proved a success in the building of our great united Nation. Let the local town and county poultry associations thru elected delegates organize state and provincial associations. We believe that the present constitution indicates the way this may be done. Also let the general membership elect certain officers and directors to constitute a central governing body to act at annual meetings, in conjunction with elected delegates from the recognized state organizations, and to direct the work of the whole united organization in the period between annual meetings. That would seem to be the really American way to do the work. Of course no international organization, occupying the field which the A. P. A. pretends to cover, can hope to get the best administrative results without paying good salaries to its executive officers and making them earn said salaries or give place to some one who will.

The \$10 life membership is a difficult handicap to overcome. In these times—or even before the war—no big organization can hope to successfully do business on the revenue from a \$10 life membership fee, plus the profits on sales of books and supplies, and occasional donations. Ten dollars is not a big enough fee to permit any organization to carry a member for life. Every new life member is an added obligation taken on at a loss, and, be it remembered, the A. P. A. does not get all of the \$10. Experienced men in organization work have figured that a life membership fee of \$40 is about as low as any organization can afford to accept. This matter has been discussed and "cussed" for a long time, but we do not seem to get anywhere. To date no one seems to have found a way to dispose of this difficulty, for it is contended that once a member has been accepted for life, on payment of a \$10 fee, there is no way to compel him to assent to an assessment of annual dues unless he volunteers to do so. Yet a large proportion of our membership seems agreed that the easiest way out of association financial difficulties would be to have an initiation fee and regular annual dues. As affairs are now conducted and with present organization, we would seem obligated to carry all present life members without further assessment and to apply any system of annual dues only to new members who join after a new membership rule has been adopted. This places an unfair burden on prospective new members and gives discriminating favoritism to the old members. There should be a way out.

Possibly the remedy might be found in sending out a call for members to attend the next annual convention for the purpose of dissolving the old association and reorganizing and legally incorporating as a new organization with constitutional provision for a just initiation fee and regular annual dues. This, of course, should not be undertaken without first securing the best legal advice obtainable. Undoubtedly the old name and all prestige of the old organization could be retained. Other business organizations have accomplished it, tho some of them have been obliged to carry all of the old life members who proved to be "conscientious objectors." We believe if the matter is fully understood to be for the best interests of the Standardbred poultry industry and the international organization that the

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objectors will be few in number, almost a negligible quantity. Surely this is "worthy of thought," as our late Secretary Cambell used to say.

We know that there are some of the older members who feel that the A. P. A. is primarily a "fanciers' organization and should be for fanciers only." We can sympathize with that feeling, but we should have considered that phase of the matter long ago before we let down the bars and, in order to finance our organization, solicited membership from every person interested in poultry who would pay the required \$10 fee. We needed the money, but in accepting the money we obligated ourselves to give these members a voice and a vote in the proceedings and we greatly widened the field of the association beyond the exclusively "fancy for fancy's sake only." We cannot escape that obligation now, nor should we wish to. Each and every poultryman, whether he be a fancier or whatever may be his special designation, has interests in common and is dependent in a large degree upon every other poultryman. We must have unity and co-operation if we are to succeed. There is already a branch organization for those who feel that they must have a club devoted exclusively to the fancy. Divided interests and factionalism will not benefit any of us, nor will it help the Standardbred poultry industry.

We hope that the 1918 convention has started something that will get us out of old ruts and bring about really helpful reorganization and rebuilding of the



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If you are a boy or girl, send in your name, and if you are a father or mother of a boy or girl, be sure to send in your child's name. Remember, no charges of any kind and nothing to buy. Just send in your name.

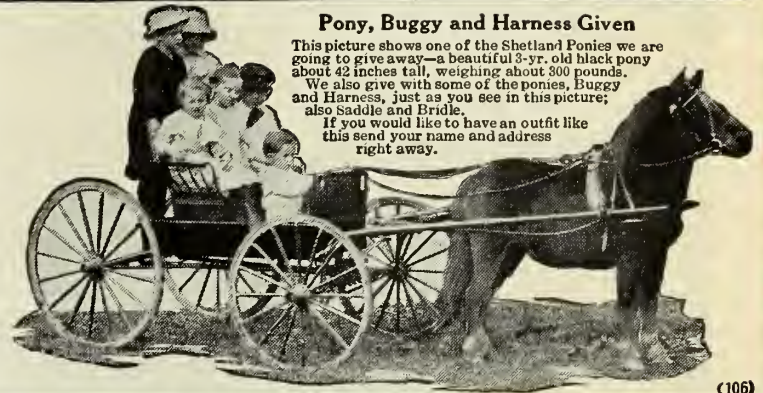
No matter where you live, no matter how young, every child will stand the same good chance to get a Pony, with buggy, harness, saddle, bridle and blanket. Send in your name right now.

Pony, Buggy and Harness Given

This picture shows one of the Shetland Ponies we are going to give away—a beautiful 3-yr. old black pony about 42 inches tall, weighing about 300 pounds.

We also give with some of the ponies, Buggy and Harness, just as you see in this picture; also Saddle and Bridle.

If you would like to have an outfit like this send your name and address right away.



(106)

Send Your Name for Free Pony Pictures

We want to send a colored Pony Picture Circular free to every Boy and Girl that sends in his or her name. It gives the names and shows the pictures of the ponies we are giving away, with children riding them out on the farm where they live. It shows one of the ponies hitched to the beautiful Buggy we are going to give away, with six children taking a ride. It shows a picture of The Pony King out on the Pony Farm, talking to 15 children who live near the farm and who come over to ride the Ponies. Every boy and girl should get this Pony Picture Circular. Send your name now and get Circular FREE.

The Pony King

610 Webb Bldg.

St. Paul, Minn.

Just Send Your Name

When you send in your name, we shall tell you how to get a Free Pony and also send you some Pony Pictures showing the Ponies we are giving away. Write your name below or send it on a postal card.

THE PONY KING,

610 Webb Bldg., St. Paul, Minn.

My Name is.....

P. O. Age.....

State R. F. D.

Children

Be sure to take this chance to get a Pony. Don't wait. Write your name and address in the corner, cut it out and send it to me. I will then send you the Colored Pony Picture Circular free and you will have an equal chance to get one of the Real Live Ponies I am going to give away soon. Get your pencil and write your name now.

Parents

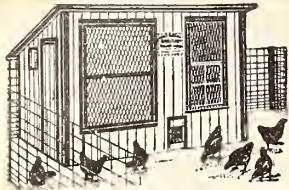
You will be interested in the Pony Circular I send and your child will enjoy it. He or she stands the same good chance as any other child to win one of the five Shetland Ponies I am giving away, no matter where you live. Remember, I am giving Five Ponies at one time—not just one—so you see there are five chances to win one. Send in your child's name.

Pat given to Flossie



"Pat" was given to Flossie Meredith, Jasper County, Ia. Flossie sent in her name, just as 600 other children did, who received Ponies from the Pony King. Flossie writes: "Pat" is as round as an apple, as slick as a mole and ready to go whenever he is told. People say he is the finest pony that ever came to town."

Potter "Redybilt" Poultry Houses



A \$39.50 Potter House Portable, open front, fresh air, scratch shed house, equipped with 5-ft. 3-Perch Potter Hennerly Outfit for 30 hens.

Don't Build - It's Cheaper to Buy

An old reliable Potter ready-made henhouse can be purchased for less than it would cost you to build one. They have been used and recommended for over 16 years by thousands of poultry keepers, all over America. Aclean sanitary house, nests and roosts mean healthy hens and lots of eggs. Do your part and the hens will do their part.

Roosts, Nests, etc., Ready to Use



A \$6.60 Potter Outfit

6-ft. 3-perch, 10-nest Hennerly Outfit for 36 hens. Same style made in 12 sizes.

For Less Than Cost of Making

Sanitary, portable, inexpensive. You start right when you install Potter outfits - roosts, nests, drop-boards coops, hoppers, etc. Get rid of makeshift, unsanitary disease-breeding fixtures and make a bigger success of your flock.

Get the Potter Book - it shows over 100 pictures of portable houses, coops, hennerly outfits, etc. Mailed free for two red stamps to cover postage.

POTTER & Co. 56 FOREST AVENUE DOWNERS GROVE, ILL.

American Poultry Association. There appears to be much that needs doing and every member should do his or her part to help. We have only just begun to get a glimmer of the light which may lead us "out of the wilderness" and we cannot afford to waste energy in crowing until we have actually attained our goal. These suggestions are made wholly without personal bias, and we hope that they will be accepted in the same friendly spirit and desire to be helpful with which they are offered.

I. K. Felch Memorial Number.

THIS NUMBER of the AMERICAN POULTRY JOURNAL is affectionately dedicated to the memory of that "grand old man of poultrydom," Uncle Isaac K. Felch, who was personally known and loved by thousands of our readers and teacher to many thousands more. He was a valued contributor to this JOURNAL since its earliest issues. He was a great power for good in the poultry world and one of the strongest advocates of Standard-bred poultry. In the length of his period of service, wide experience as a skilled breeder, the remarkable scope of his work as a teacher of poultry culture, writer on poultry topics, poultry judge thruout the whole American continent, and maker of standards for pure-bred poultry, we may not see his equal for many generations.

The article, "Seventy-four Years a Poultry Fancier," appearing in this issue is a brief appreciation of I. K. Felch; to do him and his work full justice would take a book the size of an encyclopedia. We know our readers will read it with

Homestead Campines

The word that dominates in the world of

the birds we bred this year are the finest flock we ever raised. These beautiful Silver Campines will gladden the heart of any poultry lover. Our young stock is now ready for delivery, full of health, vigor, beauty and quality. Our birds are noted for their heavy laying qualities.

HOMESTEAD CAMPINE FARM

THE VIGOROUS STRAIN

Exhibition Stock

Now ready for the fall and winter shows. Our winnings at the leading shows, such as Madison Square Garden, Boston, and New York State Fair, prove that we have the foundation, and

Box A

WAYLAND, MASS.

CAUTION: Any Bone Cutter claiming to be MANN'S without F. W. MANN CO. cast on its surface, is an imitation. The genuine MANN'S is made only in Milford.



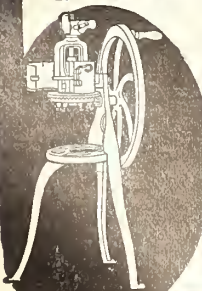
Make Your Hens Lay



Write today for our free poultry books and learn at once what it might take you, alone, years of costly experience to find out. You know how eager fowls are for bugs and worms. Our book tells why. Briefly, it's the animal food they want, and **must have**, in order to thrive best. Chicks, laying hens, cocks, all need it—to develop frame, muscle, feathers, to produce many eggs, to produce fertile eggs. To replace bugs and worms in winter, or, for yarded fowls, feed freshly cut raw bone, prepared with

MANN'S LATEST MODEL BONE CUTTER

Try One Free—No Money Down



This feed is four times richer in protein (the egg-making, body-building element), than corn is, and it is more easily digested and assimilated. **Save** money by cutting down your grain ration. **Make** money by getting more eggs when eggs are worth most and by having better eggs for hatching stronger chicks, earlier and heavier broilers.

Mann's Latest Model Bone Cutter cuts the bone (and all adhering meat and gristle) into a fine, soft mash that fowls of all ages relish and can put to immediate use in producing profit for you. It turns easily, cuts rapidly, never clogs, wastes nothing. We sell it on **10 Days' Free Trial**, without money or deposit in advance—so you may be sure it is right. We even pay its freight back if you are not satisfied.

WRITE FOR FREE BOOKS TODAY. To read them is to know how to feed poultry for most profit.

F. W. Mann Company, Box 56, Milford, Mass.

interest and they will find much therein that is helpful. Standardbred poultry culture owes much to Mr. Felch and his good work will benefit poultrymen for years to come.

**Commercialism or Patriotism—
Which?**

EVERY little while during the past year or two some zealous extremist in the fancy raises the plaint that the good old A. P. A. is in the control of rank commercialists. Just think a moment, Brother Poultryman, before you repeat that statement—are you really *in the war?* or are you just on the outside looking on?

Just bear in mind that one of our most used slogans the past two years has been, "Food Will Win the War." Remember, too, that America has undertaken the gigantic task of feeding more than half the world, and that with the ranks of our food producers already depleted thru furnishing 26 percent of the first draft, and the new draft calling men from 18 to 45 years of age still further will thin out our producers of food-stuffs. With a world crying for food and still more food, with our own country and all our allies on rations—comfortable rations tho they be—it is not wise policy to cry commercialism because our international poultry organization is endeavoring to do its bit. All food production must and should be on a common-sense commercial basis; the practical and useful are essential to the successful conduct of the war, and even the old A. P. A. doing its utmost for the "meat and eggs" side of the poultry industry would be doing little enough at best. Most states in the Union are already demanding that all men up to 50 years of age devote at least 36 hours a week to useful work essential to the winning of the war. Many of the world's best artists, lovers of the beautiful and true fanciers at heart, have given up big incomes to become workers in the camouflage corps. Everywhere men with the true fancier spirit are turning their attention from whims and hobbies to essential war work and they are making good. The fancy will not suffer; it will benefit in the end and eventually we shall have a still better and finer fancy built on the sound foundation of the greatest good for all.

This is no time to stir up strife between fanciers and practical poultrymen. We need harmony and unity. All of us should be working together for the common good of all. Those who feel disposed to complain about "the decline of the fancy"—and we are not willing to admit that there has been any really serious departure from the true fancier spirit—should read the article by that "Father of the Standardbred Poultry Industry in America," the late I. K. Felch, published in *Poultry Monthly*, November, 1899. Uncle Isaac was a true fancier, and he also possessed vision

BROODER

For \$4.96, including heater, you can build the simplest, most efficient, and most satisfactory brooder ever made. Wind-proof; fire-proof; rat-proof; fool-proof. Can be built by anyone in an hour, with saw and hammer. Plans 10c.
I. PUTNAM, Route 1005 ELMIRA, N. Y.

\$4.96

Dollar-Making Facts For Poultry Keepers

What is Pratts Poultry Regulator?

A positive tonic and conditioner for poultry of all kinds and ages. *A health-builder and health-preserver.* Not a food.

What does it contain?

Roots, herbs, spices, mineral substances, etc. Each ingredient performs a certain duty. The combination spells "health insurance."

What does it do?

Pratts Poultry Regulator makes and keeps poultry healthy, vigorous and productive. It shortens the molt, sharpens the appetite, improves digestion and circulation, hastens growth and increases egg-production. *It saves feed* by preventing waste due to poor digestion. *It prevents disease* by keeping the birds in condition to resist the common ailments.

Has it been fully tested?

Yes! In general use for nearly fifty years. The *original* poultry conditioner. Imitated, but unequalled

Does it give general satisfaction?

Positively! *Satisfaction guaranteed or money refunded.* Test it at our risk. Increased egg-production will prove that "Pratts makes hens lay."

How is it best used?

Daily in small quantities. For adults, a tablespoonful daily for 10 birds. Younger stock in proportion. Mix with dry or moist mash.

What does it cost?

Nothing, because *it pays big profits.* One cent a month per hen is the *investment* required.

Where can I get it?

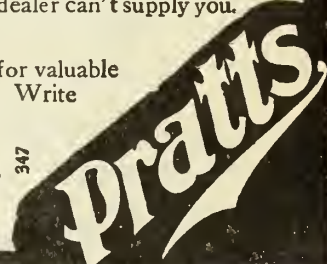
From 60,000 Pratt dealers. There is one near you. Direct from the manufacturer, prepaid, if your dealer can't supply you.

How can I learn more about it?

Ask the Pratt Food Co., Philadelphia, for valuable FREE BOOKS on poultry keeping. Write today!

PRATT FOOD COMPANY
Philadelphia Chicago Toronto 347

Manufacturers of Pratts Powdered Lice Killer, Roup Remedy, Disinfectant, etc. Also Pratts Animal Regulator and Veterinary Remedies



**RIKHOFF'S
S.C. BROWN
LEGHORNS**

LET others magnify their winnings as they may. The fact remains that no breeder at any time or place ever made a record that would even approach my winning at the great Indiana State Fair, Sept., 1918.

Think of this record before placing order

In the largest class in the show, and in competition with six of the best breeders, I won 1-2-3 cock, 1-2-3 hen, 1-2-3 cockerel, and 1-2-3 pullet, exhibition—1-2-3 cock, 1-2-3 cockerel, and 1-2-3 pen, light mating, 1-2-3 hen, 1-2-3 pullet and 1-2-3 pen dark mating. This, following my Winnings at the great Coliseum

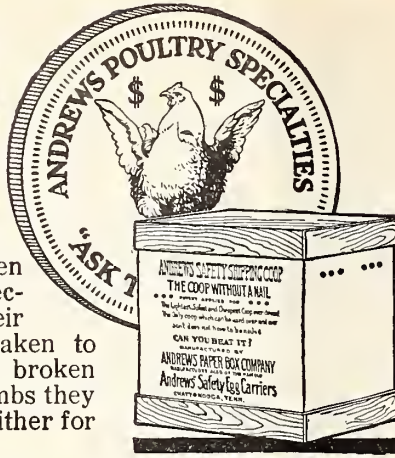
and Madison Square Garden shows, stamps my strain as America's best. I can furnish you single birds, trios or pens, exhibition or breeding stock, that cannot be duplicated in price or quality.
Write your wants and let me start you RIGHT

(HERMAN F. RIKHOFF)
305 Saks Bldg., Indianapolis, Ind.

The Safest Way to Ship Your Prize Birds

Birds shipped in heavy old wooden coops most times present a sad spectacle when they finally reach their destination, despite the trouble taken to "nail" them up securely. With broken feathers and bruised wings and combs they are not in very good condition either for show or breeding purposes.

Not only do clumsy wooden coops injure the birds but they shoot the transportation charges way up. And, under the best of conditions they are ready for the scrap heap after they have been used once or twice.



"The Koop Without a Nail"

ANDREWS

EFFICIENCY KOOP & KOOP DE LUXE

"The Koops Without a Nail"

do away with all this risk in shipping birds. They come knocked down—can be assembled in a minute without hammer or nails—and can be used over and over again. No excess freight; no bruised birds.

And what makes them more than worth the price is that they are selling at "before-war" prices. Here they are:

EFFICIENCY KOOP (For shipping breeding birds)			KOOP DELUXE (For shipping exhibition birds)		
Sizes	Dimensions	Price 1/2 doz.	Sizes	Dimensions	Price 1/2 doz.
Pet Pigeons, Bantams, etc.	22 3/4 x 13 1/2 x 12	\$3.00	Pet Size	22 3/4 x 13 1/2 x 12	\$5.40
Single, 1 to 3 birds	22 3/4 x 13 1/2 x 24	3.30	Single Size	22 3/4 x 13 1/2 x 30	6.60
Double, 2 to 4 birds	22 3/4 x 19 1/2 x 24	4.50	Double Size	22 3/4 x 19 1/2 x 30	8.70
Pen, 5 to 8 birds	22 3/4 x 23 1/2 x 24	5.10	Pen Size	22 3/4 x 23 1/2 x 30	9.90

Koops sold in half-dozen lots only

Other accessories in the famous Dollar Making Line include

Egg Trays, Parcel Post Butter Boxes, Irrigation Roosts, Egg Carriers, Baby Chick Carriers, etc.—each a standard of its kind.

In ordering goods allow a month or two for delivery under present congested conditions. Where embargoes preclude freight shipments goods will be sent express or parcel post.

We pay freight charges on all shipments of \$10.00 or over. On smaller orders enclose transportation charges, otherwise goods will be sent express collect. Address Dept. A

The O. B. ANDREWS COMPANY
Chattanooga, Tenn.

The World's Largest Poultry Specialties Manufacturers

12,000 Capacity Incubator for Sale

Built in sections. Easily moved. May be operated with either coal or gas

This is the best machine we ever had in our plant of eighty thousand capacity. Easy to operate and a fine hatcher.

We are going out of business on account of ill health. If you are interested, write us for particulars. Glad to show the machine to any prospective buyer.

I. M. HOPPLE, Mgr. Tiffin Poultry Farms and Hatchery, TIFFIN, O.

Myers' Barred Plymouth Rocks Lady Beautiful Strain
Consistent winners for years at the big shows.

Single Birds, Trios or Breeding Pens. Hatching Eggs. Write for catalog and mating list.
C. N. MYERS Box A HANOVER, PA.

and a strong fund of practical common sense. Here is the article:

THE FANCIER A PRACTICAL POULTRYMAN.

Necessity Compels Him To Be One.

By I. K. FELCH.

The time was when to say one was interested in the practical, would completely shut him out from the thorobred trade. But each year has driven the fancier to become, in part, a poulterer, and the poulterers or practical breeders, as we now term them, have come to know that the profits largely depend upon raising none but straight, thorobred stock, and indulging only in first crosses for practical demands. Thus have we seen the fanciers becoming poulterers, and the poulterers fanciers—and both have been the gainers thereby.

The fancier, at the present day, cannot sell more than 60 percent of his product for thorobred purposes, and in all the American breeds, except the White Wyandottes, we cannot say that more than 40 percent of the product satisfies first-class breeders as breeding and exhibition stock; while Light Brahmas, White Wyandottes and White Leghorns may produce 75 to 90 percent of first-class birds. On the other hand, the poulterer caters to the poultry and broiler demand, so far as the males he raises are concerned, but that he may sell his females to the fancier adheres strictly to thorobred stock, and mates so as to secure the largest number of females to score the greatest number of points. This gives him an added profit upon such as he sells to thorobred trade. Thus you see the two wings of the poultry industry becoming more and more closely allied in their interests.

The fancier is doing the advertising that is building up the poultry industry; the poulterer is saving the money the other pays for advertising, content to have the fancier for his customer for his likely and high-scoring females, while he sacrifices to the market demands his male product. It is a question which is making the most money and which position is safest to occupy. Their relations are certainly closely linked. They in the future must stand together, or every breeder will be forced into the position to represent both branches of the poultry industry.

I have seen this state of things growing for the twenty-five years I have been prominently before the poultry world, and if I say today, the fancier who would and is holding a prominent position before the purchasing public, does not offer to the thorobred trade over 50 percent of his product; the demand is such for merit that to go beyond that is to lose caste, as a fancier. The remainder must be sold to the poulterer. This offsets the purchases of the females of breeders, who do not advertise, and sells his male get to the kitchens of the land. Therefore, one can see that these two interests cannot afford to quarrel, and as the age is one of specialties in all business, perhaps both are better off for this condition of things which is now controlling the poultry industry.

The fancier will control the sale of the thorobred trade, will do the heavy advertising, and his experience will secure the confidence of the buyers of thorobred stock. The poulterer breeder cannot afford to advertise to sell his females only, and will continue to find his market for his best females with the fancier, who breeds them to his Standard males, and furnishes the results to the finer trade of the land. I do not say that this is best, as I do not care to meddle with other men's business. This extreme mating and the sacrifice of the males is an evil from which the poultry trade at large is suffering; but each wing of this industry will continue to do that which will bring the most money, therefore cannot afford to become enemies. The practical breeder and raiser cannot afford to kill females for broilers or poultry until they have been forced to lay for 12 months, and then the early-molting specimens become more profitable the second year as egg producers; besides, many times a modest pullet grows into Standard color and weight, and sells to the fancier for twice her practical worth to the poulterer. Thus one sees that the thorobred must occupy the yards of both; the modest specimens in both are sacrificed to kitchen uses, the best controlled by the fancier. The lower 50 percent must be managed until sold to the best advantage by the practical breeder or old time poulterer.

The above was written by I. K. Felch when he was a member of the A. P. A. advisory board, just after retiring from the presidency of that organization, in those "good old days when the true fancier spirit reigned in the A. P. A." He was giving his views based on a quarter of a century of keen and com-

AN INVITATION

to every Breeder of Pure-bred Poultry

MANY hundreds of you good men and women have been using BUGBEAR for protecting your poultry against lice and red mites this year.

YOU already know that BUGBEAR, when dissolved in benzine or solvent naphtha, makes the strongest and most durable kind of lice paint at a total cost of less than 50c per gallon.

YOU know, of course, that BUGBEAR is sure death to red mites, body lice, nits and disease germs, and that when it is spread on a band of cloth around the ends of a roost it prevents red mites from reaching the sleeping fowls.

THESE are some of the ways in which BUGBEAR has been helping you increase profits during the outdoor months. But we want to make sure that you also understand how helpful BUGBEAR will be during the coming winter, so we send you this invitation.

WE invite every pure-bred breeder who reads this advertisement to try BUGBEAR this fall and winter *at our risk*. Simply fill out and mail the attached coupon form and we will ship you a 5-lb. pail at our expense.

WHEN you get the BUGBEAR we want you to dissolve ½-lb. in a gallon of coal-tar, benzine or naphtha and do three things with this dissolved BUGBEAR:

1. After thoroughly cleaning one or two roosting platforms, paint the top surface thoroughly with the BUGBEAR. It will make the wood waterproof and decay-proof, kill germs and odors, prevent liquids from soaking into the wood, and be a great help in preventing manure from sticking or freezing tight to the platform.
2. Next, paint the outside of your grain bin or feed barrels with a heavy coat of BUGBEAR. It prevents the wood from gathering moisture during the damp weather, kills the germs of mold, and rats and mice will practically never gnaw wood that has been painted with this product.
3. Last, take the rest of the dissolved BUGBEAR and use it to paint the bottom and sides of wooden brooders, colony houses, hen coops or other equipment that comes in contact with the ground. It will absolutely prevent their decaying and will make the wood permanently waterproof.

PUT the BUGBEAR to every test you can think of for 60 days. Use it to paint your hen roosts, nest boxes, feed hoppers, mash troughs, wooden pen floors, interior walls—anything and everything where insects, disease germs or decay can find lodging. At the end of two months either send us \$2, or return the unused portion of the pail of BUGBEAR and you owe us nothing.

WE do not know of any other product that will do half the things that BUGBEAR will do, or do any of these things half as well as BUGBEAR will do them. Use BUGBEAR around the poultry house this winter and see how it lightens your work, keeps the poultry plant dry, sweet and free from pests—and how it improves the health of your flock in every way.

There is a 5-lb. pail of BUGBEAR waiting for you. Where shall we send it?

THE REILLY COMPANY, Indianapolis
Plants: Indianapolis, Minneapolis, Mobile, Seattle, Norfolk

— — — — — Mail this Coupon — — — — —

THE REILLY COMPANY, Dept. E-11 Indianapolis, Ind.

I accept your invitation to try BUGBEAR at your risk. Send a 5-lb. pail by parcel post prepaid to my address. At the end of two months I will either send you \$2.00 or return to you the unused portion of the BUGBEAR.

Name _____ I raise (breed) _____

Address _____ Town _____ State _____

My regular poultry supply dealer is _____

His Address _____ Town _____ State _____

WALHALLA



Buff
Orpingtons

Buff
Minorcas

The Strains of Quality

A Good Winning Will Profit Your Sales for the Season

Do you remember the great winnings we made in both of our varieties at the late Chicago Coliseum show? A record which will stand for years to come. All these glorious winners we had in our breeding yards, and if you could see the quality of our grand young stock, you would join the countless others in their words of praise. This shows what a producing strain will do.

**If You Wish to Win the Desired Prizes
You are Striving for at Your Next Show
Come to Walhalla for Your Winners**

They have won for us and others and also will win for you. Write for our guarantee-to-win plan which will explain what **GUARANTEED WINNERS** mean to you.
We also can provide you with splendid breeding birds which will improve your flock in size, type, color and production. Write for our fall sale list, it will interest you.

WALHALLA POULTRY FARM EDWARD F. SCHMIDT, Mgr. **OSCODA, MICH.**

Quality Buff Orpingtons



1st Buff Orpington Hen
Indianapolis, 1917

The first big gun of the season, the Great Indiana State Fair, September, 1918, the Hoibed of real Buff Orpingtons, and in the second largest class in this great specialty show I won first and second cockerel, first and second pullet and second and third hen.

If you are looking for bargains in young or old birds, I can take care of you. Three old pens, made up of some of my choicest breeders, \$50 per pen. A few choice youngsters in single birds, trios or pens at let-live prices. Will sell either first or second cockerel at State Fair for \$40, or first or second pullet for \$25; the two for \$60. If you want early show birds, grab them off. Remember, these winnings were made under A. E. Martz, in one of the best classes of Orpingtons ever shown at the state fair. Don't delay if you are looking for early winners.

THEO. HEWES, 2051 Hillside Ave., INDIANAPOLIS, IND.

Premier Partridge Wyandottes and Rouen Ducks

DISTINCTIVELY INDIVIDUAL

Winners At AMERICA'S LEADING SHOWS

Choice breeding and exhibition stock for sale at all times. Write for prices. **Rufus Red Belgian Hares** of quality.

Sheffield Farm H. B. Hark, Mgr. Glendale, Ohio

S. C. Brown Leghorn Cockerels

bred from Chicago, Indianapolis, Columbus and Milwaukee winners. These birds are fit to win in any show, no matter how hot the competition may be.

Prices \$5, \$10, \$15 each. Write for full details.

H. F. MOELLER Box 137B La Porte, Ind.

STOP PONDER ACT



Here is the poultry house you have been looking for and should have. Abundance of fresh air without drafts—dry as a bone—sweet as a nut, summer or winter. Simple in design, easy to build or apply, magical in results. Discard or remodel the old-style, rain-soaked, sun-baked, snow-swept, bad-smelling, disease-breeding types and own a house that will give you real satisfaction. Fully tested, used by leading agricultural instructors; it is revolutionizing the whole ventilating and housing problem. Read this:
Chicago, July 8, 1918.

"I built one of your sanitary houses as per plans and am highly pleased with it. It cost considerable (war times), but, pays great dividends in satisfaction, appearance, eggs and health of the flock." (Signed) R. E. Dickson.

Plan book contains ten cuts, giving designs for utility, fancy, commercial or back lot poultry keeping. If you ever have, are or expect to keep poultry you need this book. Price \$1.00, personal checks \$1.10. Descriptive literature on houses, caponizing and S. K. BURDIN, Suite 16, 104 Stibbard Ave., TORONTO, ONT. feeding, 6c in stamps.

petent observation. Much that he said will hold good at the present time—at least the interests of fancier-breeders and practical-breeders appear to be more closely linked than ever, each being dependent upon the other, each sells to the other, and both have many interests in common. If the A. P. A. reflects the trend of the times, if it is working to bring about a closer bond of relationship and unity between fanciers and practical breeders, it is only doing its part to live up to its tenets, "Progress, Purity and Protection" in its field of work for "Every Poultry Interest." Instead of "knocking," we should all get together and "boost." Perhaps an element of "commercialism" may have crept into the A. P. A., perhaps it may be a factor for ultimate good and may be essential to the times. But if the old A. P. A., with all its alleged shortcomings for which it has been much criticised, is really taking a deeper interest in the practical and useful side of poultry culture, if it is bringing about a closer union of the beautiful and the useful, and perhaps working toward greater harmony and a more united poultry industry, even committing that once considered heresy of helping to promote increased production of "meat and eggs," let us hope that this is really due to true American patriotism and a desire to do its part in the winning of the war.

"In the Good Old Days."

IN THE good old days, when nobody ever did anything he "hadn't oughter," the so-called "nonessential disqualifications" were quite as much under discussion as they have been periodically ever since, including the last convention of the A. P. A. The "good old days," meaning as they do to every generation, the days of our youth and prime. Of course, in those days no one ever indulged in fak—, beg pardon, we mean "conditioning and grooming," and everything was lovely in the fancy, tho poultry editors did have a habit of constantly preaching the need of "unity and harmony" in the fraternity. Remember how prone you are to tell that son in his 'teens that such things were not done when you were a youth?

Nevertheless, the files of the papers of that day tell us the story of a certain eminent fancier and judge, now gone to his reward, and another fancier-judge, who is still with us—thanks be!—who had a rather heated controversy over the nonessential disqualifications, the eminent one contending that he would vote to remove all disqualifications except general ones, such as all deformities, vulture hocks where they shouldn't appear and other defects which would seriously interfere with breeding quality, while the judge, who is still with us, contended that such utterances were backsliding and heresy. All in all, the "good old days" were strangely like the present, except that memory gives them a rosy hue and we view them with the perspective which years have given.

When we feel inclined to condemn "Bill Jones and John Smith" for plucking a few off-colored feathers, which will occur in even the best families of poultry, no matter how strong the blood lines nor how long the pedigree, it might be well to reflect a little, "lest we forget." Perhaps the following editorial comment from the pen of H. H. Stoddard, veteran editor of the "good old days," published

in the old *Poultry World*, at this season nearly thirty years ago, may help us to be a little more lenient with "legitimate conditioning":

"Bill Jones and John Smith are busy these days.

"They arise much earlier than usual.

"They carry frequent dishes of food to their chickens.

"They are constantly catching and examining some of the best ones.

"They ruffle up the feathers, and *I do believe they pull out a feather now and then.*

"Have the chickens too many feathers, that thus they pull them out? They have, my little son, *too many of that kind!*

"But what kind are thus extracted? They are the kind that *don't match with the rest of the suit*; the colors may be as bright, but they are of a different pattern.

"See! There is a red feather that was pulled from the hackle of a Plymouth Rock cockerel. Isn't it just as pretty as the black and white feathers? Quite as pretty, my son, and they evidently think it too pretty to remain there. If the judge should see it, there is probably no feather on the cockerel that would so attract his attention.

"But what means all this care, this early rising, frequent feeding, careful examination of feathers, and sly removal of some? It means, my son, that at the county fair, while some will be gazing at the great pumpkins and squashes, others interested in the bulls and cows, and still others absorbed in the 'agricultural hoss-trot,' Bill Jones and John Smith intend to capture the prizes on poultry. They are exercising their feathered stock now so as to get them into trim to come in best three out of five and allow no one to take the pole from them when the race is on."

Oh, yes, "the good old days" were all right, approaching perfection—almost—quite right like the present day. We are all just as human now as then—and maybe more so.

Prepare NOW for the Big Harvest Next Spring! Hatching and Selling Day-Old Chicks

Is the big money-making end of the poultry business today and will continue to be for years to come. Are you getting your share of it? Many, many millions of Day-Old Chicks—at top prices—will be needed to supply the demand the coming season. **How many are you ready to furnish?**

Last season the demand was far in excess of the supply. Day-Old Chick producers were **swamped** with orders. They'll be swamped again next season. Don't wait until the orders come pouring in—to find that you haven't nearly as much incubator capacity as you need. Get ready **NOW!**

With a Blue Hen Mammoth Incubator The Big Time, Labor and Money Saver

You can turn all the eggs in 5 to 10 seconds and better than by hand. Test the eggs in half the usual time, largely eliminate cooking, attend to self-regulating heater in 3 minutes per day, secure 2½ times usual capacity in the same space, and get big money-making hatches besides.

"Headquarters for Big Hatches"

While the hatching season is still several months away, the time during which Mammoth incubator shipments can be made without great delay and uncertainty is limited to the next few weeks.

Blue Hen Mammoth Heaters (excepting small size) **do Fine Work with Soft Coal**

Tell us what your present incubator equipment is and what capacity you want for the coming season—so we can send you our handsome Mammoth catalog and full information about The Blue Hen. The few minutes it may take you to write us now may mean hundreds of dollars in your pockets later on!



WATSON MANUFACTURING COMPANY

2785 Ann St. Lancaster, Pa.



PARKS 200 EGG STRAIN BRED-TO-LAY BARRED PLYMOUTH ROCKS

1889 ← → 1918
29 Years of Trapnesting

For Nearly 30 Years (almost alone) We Have withstood the Knocks and Championed This Bred-to-Lay Cause

It didn't take the war to awaken us to the fact that EGGS and MEAT were really the backbone of the industry. While the first record of our strain kept in 1889 showed an average of only 96 eggs each for the 16 hens, they have been steadily climbing upward, until today they are justly conceded to be

America's Oldest and Greatest Laying Strain Barred Plymouth Rocks

They outlaid over 2600 birds in four Missouri Laying Contests. Birds from 37 states and eight foreign countries. We've brought the EGG BASKET and the Standard of Perfection into a closer relationship, as our winnings (Rochester, N. Y.; Washington, D. C.; Wheeling, W. Va., etc.) show.

No, we never get excited over the chance phenomenal layer. HIGH NORMAL LAYING has been our aim. A flock of 128 hens averaged 208 eggs. It is such records that we are proud of.

Pullets did everything you claimed, fairly laying their heads off
HELPING TO WIN THE WAR, writes J. C. Raspe, Raspeburg, Md.

PULLETS : COCKERELS : HENS : COCKS

General Catalog a Dime.

Cockerel and Surplus Stock Circular Free.

J. W. PARKS

Box J

ALTOONA, PA.

STARKS' WHITE ROCKS

Winners at Madison Square Garden. SPECIAL SALE OF BREEDERS now on.

STARKS FARM Box 100 STARKS, WIS.

4 More Eggs per Month

or only one more egg a week

Makes the difference between a Loss and a **Good Profit!**

Here's the way it figures out:

4 eggs per month
 12 months
 48 eggs at 4 cents each equals \$1.92

\$1.92 added income per year from each hen is quite an item, isn't it? Stock that is bred to produce this added profit is the kind I raise. For 29 years my efforts have been directed to producing high-record, trapnested layers, and I have succeeded. My birds are not pampered weaklings, but strong, vigorous producers, reared in the vigorous climate of Vermont, where none but the fit survive. I raise my birds in such numbers that I am able to offer high record bred stock at about half what others ask. Here is a good opportunity to buy.

YEAR-OLD BREEDERS FOR

FOUNDATION STOCK

Barred and White Rocks, Brown and White Leghorns, White Wyandottes, Reds, from trapnested stock, with records of

180 to 200 eggs, each.....\$3.00 210 to 249 eggs, each.....\$4.00

8-WEEK-OLD PULLETS, \$1.25 to \$1.50

from 200-249 egg record stock, and will be laying this winter when eggs are high and worth getting. The many years of breeding for egg production back of these pullets are a guarantee that you will receive an overflowing measure of value. Grand Cocks and Cockerels out of record dams, 16-week-old Pullets at \$2 and \$3 each. 100 Yearling White Wyandottes, pedigree stock, "state tested," at \$3 each for lots, with pedigrees.

2400-Egg Candee Incubator for Sale Cheap

Order direct from this ad or send for catalog

Sunnyside Poultry Farm R. C. BLODGETT, Prop. Box 1002, Bristol, Vt.



Increasing Consumption Encourages Production.

EAT MORE poultry and eggs. Urge your friends to consume more poultry and eggs. Encourage them to become boosters in a campaign for greater use of poultry products on the home tables of the nation.

Increasing consumption of a food product encourages increased production. It cannot work any other way. The producer is influenced by demand. When he sees that consumers are slowing up on the use of his product, he begins to hedge and to produce less, he has learned by experience that a slowing up of demand is followed by an oversupply and prices below production costs in most cases.

Eggs are one of our best and cheapest foods. They have never yet sold at a price in excess of their actual value as food when compared with cost of other foodstuffs. Eggs are good food, good for everybody, young and old, and particularly good for children and invalids. They come in a clean and sanitary original package and there is practically no waste. If eggs were bringing one dollar a dozen, they would be better and cheaper food than many meats at present prices. Eat more eggs—the more eggs everybody eats, the more eggs will be produced.

As for table poultry, it will be difficult for the housekeeper to find among the other meat foods equal value and usefulness for the same money that may be had in a prime, well finished fowl or roasting chicken. Poultry for the table can be prepared in a multitude of appetizing ways. It is good, wholesome food and there is very little waste in a poultry carcass if the cook handles it properly. In our home we are strong for poultry and eggs; they are the chief meat foods used, and we grow our own. Poultry has never sold at as high a price, value and variety of ways it may be cooked and served considered, as most meats. Go out among your friends and do a little missionary work to demonstrate to them that it will be good policy for them to eat more poultry and eggs and that they will live much better if poultry products are used more freely. They will thank you for it, when they really learn how to make use of poultry and eggs. Stimulate consumption as a means of increasing production. Do it now.



Dog Kennel

No. 4 Poultry House for 200 hens—5 units

No. 3 Poultry House for 50 hens

REMEMBER how your poultry suffered from the cold last winter and how it affected their laying? It may be just as cold this winter and it may be colder but this does not mean that they will have to suffer again. Quarter them in a Hodgson Poultry House. They are stormproof, comfortable, sanitary, well-ventilated and free from drafts.

Send for a Hodgson Poultry catalog. It shows poultry and pet stock houses, kennels, etc., in various styles and sizes. They are shipped in sections already painted, and can be assembled without the use of the tool-box.

E. F. HODGSON CO., Room 322, 71-73 Federal Street, Boston—6 East 39th Street, New York

HODGSON PORTABLE HOUSES

You Should Send 25c for Our New Poultry Account Book.

Is it Dollars and Cents or Pleasure?

No matter which it is, only the best can produce the desired result. If you take pride and pleasure in winning over your competitors in the show room and raise fancy poultry for the pleasure it gives you, or if it is a bread and butter proposition and you must win in order to increase the selling value of your product,

We Can Help You — Our Barred Rocks

are the quality Rocks of the Northwest. We have won this season at the North Dakota Fair, 1-2 cock, 1-2 hen, and Best Male Bird at Rochester, Minn. They are off in the lead, and will stay there. Our birds have always been bred with an eye for their laying ability, which is combined in a profitable degree with their show qualities.

500—Classy Cockerels and Pullets for Sale—500

Send today for my catalog

M. E. THOMSON

DEPT. A

AUSTIN, MINN.

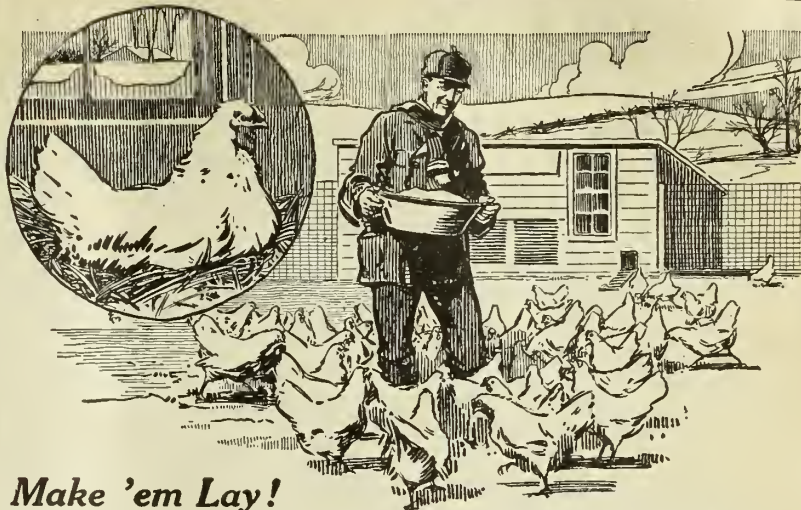
"Boost" the Poultry Shows.

THE POULTRY show season is now beginning in earnest. Poultry exhibitions are necessary to keep the interest in Standardbred poultry at topnotch. The fall fairs and the winter shows will do much good in helping the campaign for increased production of poultry. Do your part to help make this show season a success surpassing all previous efforts.

The general public is interested, unusually so, and the breeder who neglects his opportunities this exhibition season is not alive to the possibilities of the Standardbred poultry business. And do not forget or overlook the beginners and potential poultry fanciers, who will attend such shows in large numbers. It is good business to devote plenty of time and effort to interesting and instructing beginners, but more than that, it is for the best interests of the poultry industry as a whole, and it is certain to help in bringing about the increased food production so much desired by our Uncle Sam.

Every novice, who, thru the constructive work of far-seeing breeders this show season, becomes a poultry breeder or a producer of market poultry and eggs, will be a help in the great work which is now the chief objective of the whole united nation—to win the war. Do not overlook or sidestep any opportunity which may present itself for you to do your part. The first poultry show either makes or discourages the novice. The result depends largely on how much attention you pay him and how much effort you put into enlisting him in the army of Standardbred poultry producers. The "cold shoulder" or the brusque response to his queries will tend to discourage him. Do not wait for him to make advances. Seek out the beginners, who are wandering about as if lost, and make them welcome. It is up to you veterans to do the getting acquainted and if you fail to round up the novices, doing service as a recruiting officer for the fancy, it will be your fault as well as your loss if you do not get them interested and hold their interest. Just remember what it meant to you, when you were a beginner, to have some poultry judge or breeder come up, with a smile of welcome and hearty handclasp, and offer to explain exhibits to you.

Attend the poultry shows. Exhibit when and where you can. Do your part to "boost" the poultry shows, but do not overlook any opportunities to be helpful and to make beginners feel that they are welcome and at home among friends. It is up to you, Mr. Exhibitor—that is just one particular in which the present-day exhibition does not come up to the shows of earlier days. The lectures, special educational exhibits and moving-picture shows of poultry work are all good, but we overlook our "one best bet" if we fail to make the beginner feel that he is a part of it all, that he is among friends, and that he is a most welcome addition to the fraternity.



**Make 'em Lay!
Start 'em early! Get more high priced eggs!**

FALL and winter eggs pay best—late winter and spring eggs are not profitable—every young pullet or slow molting hen can be easily speeded up into an egg layer in a simple manner.

Why not get the best there is in your flock—take the big profits that come from early eggs. Avoid all the ailments that cut down egg yields — keep the whole flock alive and going at top speed. Read the following letter:—

Philadelphia Pa., January 8, 1917.

Dear Sir:—

I desire to advise you further in writing of what I consider the wonderful work done by Sloan's Liniment, which I first tried about two months ago at your suggestion.

As I have told you several times, the atmospheric conditions in my laying house are the worst that I have ever experienced in my dealings with poultry. I have been unable to overcome the damp condition existing in the house, the litter being so wet that it is almost possible to wring the water from it. On December 31st I changed the front of one of my houses, to the open front style, and the birds were only in this room about two days when the floor was almost as wet as in the other rooms.

About six weeks ago I started feeding Sloan's Liniment to my pullets to increase the lay, which had not been up to normal. As I advised you in my letter of the 5th ult., it worked wonders increasing the lay from four to sixteen eggs in about three weeks and it kept increasing until we were getting as high as 27 eggs a day about the middle of December, when I first began experiencing the trouble with dampness referred to above. Since then the egg yield, of course, has not increased, but the remarkable part of it is that notwithstanding the fact that the houses have been frightfully damp for three weeks or more, I have not had a serious cold among my birds. There is some sneezing in the flock but I have examined them carefully every night and I have been unable to find one bird with a serious cold that would necessitate treatment of any kind. I am fully convinced that the reason for this ability to withstand adverse conditions is the fact that they have been strengthened to no little degree by the Sloan's Liniment that I have been feeding now for almost two months, and without the added vitality from the Sloan's I do not like to think of what the result might have been.

Very truly yours,

HARRY A. DEEMER.

Here's the way to do it—Read carefully

For every ten layers that you wish to get in shape, pullets or hens, give 20 drops of Sloan's Liniment mixed with one pint of moist mash every day for three days and then give the same dose twice a week throughout the year.

For growing youngsters, give 10 drops of Sloan's Liniment to ten youngsters in half a pint of moist mash twice a week only. Put five drops of Sloan's Liniment in every quart of drinking water.

Purchase a bottle of Sloan's Liniment from your nearest dealer. The small size contains enough to last ten birds two months or more. The large size contains 13 ounces or six times the small size. It's wise economy.

One bottle will prove its profitability and the many other uses you will find for Sloan's Liniment in the household will warrant your having a bottle at hand at all times.

NOTE— You will not find these special poultry directions in the circular with the bottle, so keep this advertisement.

**MAHOGANY
RUSSIAN
ORLOFFS
English Redcaps**

FOUNDATION Stock purchased and imported personally from the best breeders in Europe. Only a limited amount of February, March and April young stock for sale. Only fine breeding and Exhibition specimens offered. Write for descriptive matter and prices.

Highest Bank References.

DIVERSION POULTRY FARM

E. A. FRANK, Prop.

AUGUSTA, GA.

BARRED ROCKS CHICAGO WINNERS Both Shows, for Many Years, at Barred Rock Club Meet,

Chicago, Jan., 1916, in competition with 465 of the Best Barred Rocks in the U. S. A., we won Sweepstakes Champion Cup, Best Display Special, A. B. R. Club Special for best cock, hen, cockerel and pullet, first cockerel bred pen, first pullet bred pen and many other first and second prizes. Our birds WIN for our customers all over the U. S. Grand Cocks, Cockerels, Hens and Pullets for the Fall and Winter Shows for sale at moderate prices.

TRUCKENBROD BROS., Box A, Mendota, Ill.

R. C. REDS
220 AVERAGE
 OFFICIAL RECORD
Meyer's Famous R. C. Reds
 Our Pen No. 59 holds the **Highest Official Red Record** ever made in any laying contest.
 Our pen No. 22 was first price pen 1916-17 American Laying Contest. Our hen No. 6 in the Missouri National Egg-Laying Contest laid 114 eggs in 120 days. This shows that **Meyer's Reds** are leading all others. They are the world's supreme. They win first, year after year, in competition with the best blood in the world. We have the finest lot of young stock we ever raised. If you wish the best, write us your wants.
RIVERVIEW POULTRY FARM
 KLONDIKE, MISSOURI



Longfield R. C. Reds
 Now ready with a choice lot of early hatched birds for the Fall and early Winter Shows. Bred from and in line with the birds that have won more than half of all First Premiums on R. C. Reds at the **GREAT CHICAGO COLISEUM SHOW** since 1911. Also a few choice adult birds. Priced reasonable and shipped on approval. Write for catalog.
LONGFIELD POULTRY FARM
 Box 321, BLUFFTON, IND.



Adjustable Clinch Bands
 None Better Made—25-30c; 50-50c; 100-80c; 200-\$1.40; 500-\$3; 1000-\$5. Numbered as desired. Also Colored
Celluloid Ringlets
 Same price as Clinch Bands. Six samples assorted, 6c. These Celluloid Bands are different from some, in that they are good size, fully large enough for the breeds intended.
FRANK CROSS Box 506 Montague, Mass.

WINNINGS
 ON
S. C. B. MINORCAS
 at Indianapolis State Fair were as follows: 1-4 old pen, 3 young pen, 3 cock, 2 pullet and 3 hen.
H. A. KING, Prop.
 ROYAL POULTRY FARM, Box 500, OSSIAN, INDIANA

RABBITS
A Profitable Side-Line Occupation
 Tells how to provide for the shortage in meat and fur. Our book: "The Rabbit; How to Select, Breed and Manage the Rabbit and Belgian Hare for Pleasure or Profit," by breeders of long experience. Fully illustrated, including 4 mos. subscription to our paper containing Rabbits, Hares and Pet Stock department, both for 35c. Our paper 1 year and book both for 65c.
POULTRY ADVOCATE, Dept. 252, SYRACUSE, N. Y.

Single Comb Reds
 If you want winners for that show you are going to attend, write me. All birds sent on approval.
HARRY McPEEK
R. F. D. No. 1 MOWEAQUA, ILL.
 (Formerly McPeck & Sparling)

Dr. Woods' Notes and Comment

AUTUMN.
 Think, O grateful, think!
 How good the God of Harvest is to you;
 Who pours abundance o'er your flowing fields,
 While those unhappy partners of your kind
 Wide-hover round you, like the fowls of heaven,
 And ask their humble dole.
 * * * —Thomson.

Have you done your utmost in food production? Try to better this year's best during the coming season. Food is needed. Increased production of eggs and poultry will be a great help.
 * * *

Cull out the wasters and market or can them. Do not attempt to carry more male birds than you actually need for breeding or for sales. Feed is not plentiful, there will be a sufficient supply for legitimate needs, but it should not be wasted. Feeding grain and feeds to non-productive fowls or to non-essential stock, is waste. Do your utmost to make every pound of feed used for poultry bring in its full value in eggs and essential stock.
 * * *

Keep the pullets and yearling laying stock well fed. Liberal feeding and regular feeding are necessary to keep the birds productive. Underfeeding is wasteful. The fowls must have a sufficient supply of wholesome food in reasonable variety to sustain life and provide a surplus with which to make eggs. In addition to grains and ground feeds, meat food, in

the form of beef scraps or fish meal, and green foods are very necessary at this season of the year.
 * * *

Clover rowen, properly cured and prepared in the form of "cut-clover," should be stored for winter use. It is one of the best foddors for use in the mash. Clover helps to get winter eggs and it helps the fertility and hatchability of eggs. If you have not put in your supply of cut-clover, better get it now while the getting is good.
 * * *

Cabbage is a better fall food than a winter one. Cabbages can be fed to best advantage while the fowls are molting. If cabbage has been frosted, it should be thawed in cold water before feeding.
 * * *

Stock carrots, beets, mangels, small potatoes, etc., should be fed liberally to supply succulent vegetable food, now that the heavy frosts have damaged the green forage on range. Squash, pumpkins, and cull apples are best cooked, by thoro boiling, before feeding. Use them in moist mash mixtures.
 * * *

Keep a good dry mash, containing fine beef scraps or fish meal, or both, before the fowls at all times. Feed corn, either cracked or whole, liberally on frosty evenings. See that the birds go to roost with full crops.
 * * *

Feed regularly. A feast one day and a famine on another will not bring eggs.



S. C. Buff Orpington hen. Owned by Walhalla Poultry Farm, Osceoda, Mich. Winner of first prize at America's two greatest shows—Madison Square Garden and Chicago Coliseum.

Mention the American Poultry Journal when writing to advertisers.

The early pullets are beginning to lay. Keep them at it. Can the "slackers." If pullets are properly handled, comfortably housed and well fed, egg production should steadily improve and it will if you are on your job.

Fowls will not lay well unless supplied with plenty of drinking water, as well as food. Keep the fountains or buckets full of clean fresh water. Even if a brook or pond is accessible, do not fail to supply water in fountain or bucket in or near the house. There are always a few birds that will go thirsty rather than make a trip to the brook or pond. Clean snow is preferable to solid ice or warm water in the drinking vessels in extreme cold weather. The fowls eat snow eagerly. Warm water is likely to wet the plumage or head gear and cause frosting and colds.

While water is an essential in keeping fowls healthy and productive, this does not mean that water leaking thru the roof should be permitted. See that the roof is tight and all leaks fixed before winter weather sets in.

Do not delay longer. Get that supply of dry sand, gravel, and loam, under cover at once for use on floors and drop boards during the winter. Sand is useful for pen and brooder floors, gravel makes good grit if not too coarse, loam is desirable to use as an absorbent to cover droppings.

Grit and oyster shells are essentials. Keep a supply before the fowls and chickens at all times.

Last month we urged immediate stocking of coal needed for incubator and brooder use. The fuel shortage is real and the need is great. The fuel administration is going to do all it can to see that poultrymen using coal for incubator and brooder heating get the necessary supply, but it can't make coal grow in your coal bin. Many towns have already received their full allotment of coal, including chestnut coal for incubator and brooder use. The poultryman who has failed to stock up with amount of coal needed in his work of increasing poultry production will have to get very busy at once or get left.

If you have not already joined the National War Emergency Poultry Federation, do it now. Your bit will help. The office at Washington is open and doing business, endeavoring to be helpful to poultry producers of all classes and to see that the industry is properly represented in the national capital in these strenuous war times. Everyone interested in poultry should join. The annual membership fee is one dollar, which must accompany application, but contributing members can pay as much more as they please to help the good work along. Send your application and your dollar today to Reese V. Hicks, president National War Emergency Poultry Federation, 918 F St., N. W., Washington, D. C. Be sure to give your full name and address and state in what manner you are connected with the poultry industry. Checks or other form of remittance should be made payable to S. T. Edwards, treasurer, N. W. E. P. A.

In looking over the files of American Poultry Journal, we were interested to learn that the late I. K. Felch came to Chicago in 1865 and remained in this city for seven years. In 1866 Mr. Felch was one of the founders of the first Chicago Poultry Association and was superintendent of its poultry exhibition. In this capacity he sold stock to the value of \$1,128, on which the Chicago association received a commission of \$112.80. At this time "Long" John Wentworth was president of the Chicago society, and according to the reports "Long John" and I. K. Felch were "some" poultry team. While Mr. Felch devoted a large part of his time to poultry work, he was, in those early years, identified with the New England shoe manufacturing industry, and for fifteen years was a commercial traveler in the shoe trade. From the early seventies, however, he devoted himself exclusively to poultry culture. In the early nineties, Editor Bates of the A. P. J. said:

"Mr. Felch is what the Journal terms a practical fancier. He derives his revenues from his flocks and collie dogs. He does not raise stock for the purpose of spending money otherwise obtained. Poultry culture has sustained him and his family for twenty years without any other means.

"A man of Mr. Felch's personality cannot go thru life without touching the extremes of feeling and awakening relative emotions. He is of fine presence, commanding, masterful; and he can no more help arousing hostility than he can prevent the inflowing of genial regard. We have not always coincided with his views, nor acceded to his requests, but whenever we differed, that difference was accepted

SABRINA FARMS WHITE WYANDOTTES

Win at Syracuse

1st Hen 2nd Old Pen 2nd Young Pen

Special premium for best best farmers' utility flock, with thirty-six competing

Arthur H. Shaw, Prop. Wellesley, Mass.
Office at 502 Grove Street

ANOTHER SUSSEX VICTORY

Moraine Farm Speckled Sussex made a clean sweep at two of the largest State Fairs of the season, Ohio State Fair and Indiana State Fair, 1918. In strong competition they won:

11 Firsts — 11 Seconds — 7 Thirds

We have the finest flock of young stock we have ever raised. We can supply you with birds to win in any show room. Write for catalog and price list. Place your order early.

MORAINE FARM, Poultry Dept.

R. R. 16, Dayton, Ohio

MAPLESIDE

BRED-TO-LAY

Barred P. Rocks

I have a grand lot of Cockerels to offer of best laying blood at \$3.00 each; also pedigree stock from high record hens at \$5.00, \$7.50 and \$10.00 each. Circular of facts free.

O. F. MITTENDORFF

Box F LINCOLN, ILL.



What's a CAPON and Why?

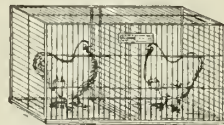
A BOOK that explains everything you will ever want to know about CAPONS, 50 pictures from life that show each step in the operation. List of Capon Dealers' addresses. Tells how to prevent "slips," where to get the best and cheapest capon tools. Capons are immense eating. Big profits realized. Get wise. This book tells how. Regular 50c copy, prepaid to your address (a short time only), for 10c in coin or stamps.

GEORGE BEUOY

R. Route No. 71

CEDAR VALE, KANSAS

Keipper Collapsible Coops



THE ORIGINAL ALL-WIRE COOP—None can compare with it. Have your birds properly prepared for that next show. Thousands in use by breeders. Wonderful for rabbits. Special design of single coop sent by parcel post. Coops rented to shows with privilege of purchasing. Send for illustrated catalog. We can please you.

KEIPPER COOPING CO., Inc.
1401 First St. Milwaukee, Wis.

Red Quill

The ORIGINAL Scranton flock. August 1 I took over partner's interest. Bargains to get cash to swing the deal.

S.C. Reds

Color—Type—Layers. Write
W. F. FRY Route P, Box 333-A Indianapolis, Ind.

EVERLAY

BROWN LEGHORNS

come back strong at New York State Fair. 3 first—1-2-3-5 cockerels, best display, etc. Come to headquarters for cockerels.

H. V. TORMOHLN Box 2 PORTLAND, IND.



BUY Winter Feeds

EGG MASH



Silver Quill Egg Mash is our quality egg producer. It contains 27 different ingredients, as follows: Wheat bran, alfalfa, corn meal, oat meal, wheat middlings, meat scraps, bone meal, ground fish, powdered limestone, capsicum, rice polish, salt, dried milk, powdered cocoa shells, barley meal, old process oil meal, wheat flour, locust bean meal, flaxseed, blood flour, ground peas and beans, coconut meal, cottonseed meal, feugreek, anise and malt sprout meal.

Many poultry raisers make the mistake of not feeding a good dry mash. While scratch feed is a necessary part of the hen's food ration, its main function is to supply bodily nourishment and to furnish a reason for exercise, while egg mash is for the one purpose, that of egg production. Analysis: Crude fat, 4%; crude protein, 19%; crude fiber, 10%.

No. 518921 1/4 100 pounds Egg Mash. Chicago, Indianapolis and Columbus price\$4.55
Kansas City price..... 4.80



Because Indications are that feed prices will be high this Winter.
Because In ordering now, you will avoid price fluctuation and delay.
Because We can now ship feeds from Chicago, Indianapolis, Ind., and Kansas City direct to you and a saving in cost.
Because mean quicker delivery to you and a saving in cost.
Because Chicago store.
Because If you fill your feed bin now, you will avoid it necessary to embargo shipping.

Laying Mash



Silver Quill Laying Mash is a good feeding mash for eggs. Like our Egg Mash, it should be fed dry. It contains the following ingredients: Meat scraps, linseed oil meal, corn feed meal, wheat bran, wheat middlings, ground oats, alfalfa meal, etc. Its analysis is as follows:

Protein	15%
Fat	4%
Carbohydrates	45%
Crude fiber	10%

No. 518967 1/4 100-lb. bag. Chicago, Indianapolis and Columbus price.....\$3.65
Kansas City price..... 3.85

Dried Buttermilk



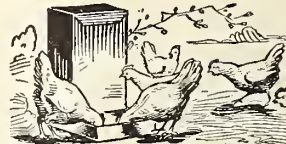
Dried buttermilk is a comparatively new factor in animal feeding. It has been tested and proved, however, to be a good ingredient for mash feeds. Not more than 10% should be mixed in a mash of your own mixture.

Reputation Dried Buttermilk is made from pure fresh buttermilk, from which 90 to 93 pounds of water are removed from every 100 pounds. Its lactic acid content is an aid to digestion and the assimilation of food. The guaranteed analysis is as follows:

Crude fat	5%
Crude protein	25%
Crude fiber	none

No. 518946 1/4 100-lb. bag. Chicago, Indianapolis and Columbus price.....\$9.45
Kansas City price..... 9.00

Meat Scraps



Silver Quill Meat Scraps analyze 50% protein and 8% fat. They contain the animal protein that is essential in balancing the hen's rations. Vegetable protein alone cannot be depended upon to produce the maximum egg yield.

No. 518925 1/4 100-pound bag. Chicago, Indianapolis and Columbus price.....\$5.35
Kansas City price..... 5.70

Shipped from CHICAGO only.

Disinfectant

Silver Quill Poultry Disinfectant is a coal tar preparation stronger than carbolic acid. One gallon in 70 gallons of water makes a harmless yet powerful poultry disinfectant. This is a good spray for poultry houses, sheds, nests, roosts and dropping boards. Full directions on every package.



518215 1-gallon can. Shpg. wt. 11 lbs. Price. \$1.37
518221 6 1/4 5-gallon can. Shpg. wt. 52 lbs. Price. \$5.85

Sodium Fluorid

The poultry lice killer recommended by the U. S. Department of Agriculture.

Sodium Fluorid is a white powder, applied by dusting. Easy to use and harmless. One pound applied dry by "pinch" method will treat 100 fowls. Directions on package. Shipped from CHICAGO only.

No. 5182233 1-pound package\$0.35
No. 5182234 5-pound package\$1.50



Milk Mash

Silver Quill Milk Mash is a well balanced ration, containing 22 different bone and flesh building materials. It is a good mash for developing the baby chick from the day it is hatched until it is full grown. Also for fattening by the crate method or in any other way. Poultry fed on Silver Quill Milk Mash can be pushed to the limit without danger.

No. 518916 1/4 100 pounds. Chicago, Indianapolis and Columbus price\$4.98
Kansas City price..... 5.20



BUY

IMPORTANT!

SAVE SILVER QUILL BAGS.

They are worth money to you. There are many uses for them around the home. They can be utilized to store things in, such as vegetables, grains, etc. Women report them satisfactory for dish cloths, etc. Some dealers are offering 10 cents to 20 cents each for bags in good condition. If you cannot use Silver Quill bags and wish to return them to us, we will allow 20 cents each for all Silver Quill bags that are clean and in good condition, delivered to our store in Chicago during October. Save your bags. Make them do double service.

Lice Powder

Silver Quill Lice Powder is a dusting powder for freeing poultry from lice and mites. Full directions on each can. It is effective and harmless. Shipped from CHICAGO only.

No. 518905 One-pound sifter top can. Price 21c
No. 518906 Six-pound package. Price. .98c



These Prices Guaranteed Order Direct

It is our complete Poultry Price List for Columbus, Ohio; Indianapolis, Ind.; Kansas City, Mo. to give catalog number of each item desired shipment made.

OUR GUARANTEE
We guarantee that any article purchased from us you have a right to expect; that if for any reason whatever you are dissatisfied to return it to us at our expense. We will then exchange it for exactly what you wish transportation charges you have paid.



Sears, Roebuck

and Supplies

NOW



SCRATCH FEED

Silver Quill Scratch Feed is the best grade scratch we are able to secure. It consists of corn, kafir corn, barley, oats, buckwheat, sunflower seed and the percentage of wheat permitted by the United States Food Administration. Its analysis is as follows:

Crude Fat (Minimum)..... 2%
 Crude Protein (Minimum)..... 9%
 Crude Fiber (Maximum)..... 5%
 Carbohydrates..... 69%

Silver Quill Scratch Feed contains only clean, sweet grains free from chaff. Scratch feed gives vitality and life, and should be fed with Silver Quill Egg Mesh for maximum egg production. The price is low considering quality.

No. 518902 1/2 No grit. 100-pound bag.
 Chicago price.....\$3.75
 Indianapolis price.....3.60
 Columbus, Ohio, price.....3.75
 Kansas City price.....3.89
 Silver Quill Economy Scratch Feed is a low priced, well balanced scratch, consisting of wheat, cracked corn, kafir corn, barley, oats, wild buckwheat, sunflower seed, and not over 4% grit and 4% shell.
 Economy Scratch Feed shipped from CHICAGO only.
No. 518922 1/2 100-pound bag. Price.....\$3.45



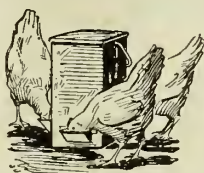
Why? Are lower now than they will be at any time. Beware of the danger of Winter freight congestions. We have warehouses in Columbus, Ohio, Indianapolis, as well as Chicago. This should insure lowest freight. Send all orders direct to our Chicago office. You need not worry if conditions later make it impossible to ship to your particular territory.

Oyster Shells

Owing to the scarcity of oyster shells we will be obliged to raise the price November 1st to \$1.15 per 100 pounds.

Silver Quill Oyster shells are guaranteed genuine. They are round and dried, not turned, and carefully screened and washed.

Remember, you may be able to add a 100-pound bag of oyster shells to your order for Egg Mash or Laying Mash without increasing the freight charges.
No. 518935 1/4 100-pound bag. Chicago, Indianapolis and Columbus price.....\$0.98
 Kansas City price.....1.35



Poultry Grit

Silver Quill Poultry Grit is a crystal white marble grit, bright and sparkling. It contains 97 per cent calcium carbonate (lime). It was the only grit used at the Coliseum Poultry Show in December, 1917. Not only does it perform its function of masticating the fowl's food, but it supplies mineral matter for eggs as well.

No. 518960 1/2 100 pounds net weight.
 Chicago, Indianapolis and Columbus price.....\$0.98
 Kansas City price.....1.35

Charcoal

Granulated charcoal absorbs gases and aids digestion.
No. 518904 1/2 50 pounds net weight. Price.....\$1.75
No. 518919 1/2 100 pounds net weight. Price.....\$3.45
 Shipped from CHICAGO only.



Poultry Tonic



Your hens must be kept in good physical condition to be profit makers. SILVER QUILL Poultry Tonic is a tried and true formula for promoting thrift in fowls. Helps to shorten the moulting period. If your fowls are closely confined it will provide them with the necessary tonic needed for their health and keep them in good condition. Shipped from CHICAGO only.

No. 518951 5-pound carton. Price.....\$0.55
No. 518952 10-pound bag. Price.....1.00
No. 518953 1/4 25-pound bag. Price.....2.39

Pigeon Feed

Silver Quill Pigeon Feed contains only high class ingredients, such as wheat, corn, kafir corn, hemp, peas, buckwheat and millet. Squabs are very profitable and can be easily raised. They are fed for the first two weeks by the mother pigeon with pigeon milk, which is a semi-digested food regurgitated from her crop. Shipped from CHICAGO only.

No. 518970 1/4 100 pounds..\$4.61



Silicate of Soda

PRESERVE YOUR EGGS FOR WINTER.



The U. S. Government is advocating the use of water glass for preserving eggs. One gallon of this Silicate of Soda Solution, commonly called Water Glass, is used for preserving from forty to fifty dozen eggs. A quart will preserve ten to fifteen dozen eggs. Preserve your eggs at home from the time they are plentiful until they are scarce and high priced. Full directions on every package. Sold at customer's risk. Shipped from CHICAGO only.

No. 518908 1-gallon jug. Shipping weight, 22 pounds...89c
No. 518907 1-quart can. Shipping weight, 6 pounds...27c

Lice Paste

Lice is one of the greatest enemies that the poultry raiser has to contend with; and it takes constant vigilance to keep them subdued. Silver Quill Lice Paste is an efficient remedy for destroying lice and nits (eggs of lice) on chickens. A good remedy for scaly legs and head lice and easy to apply. Full directions with each tube. Shipping weight, per tube, about 7 ounces. Shipped from CHICAGO only.

No. 518228 One tube. Price.....39c
No. 518229 Three tubes. Price.....98c



to October 31, 1918
 m This Ad

per. Remember we ship feed from our Chicago, Mo., or Chicago warehouses. Be sure to specify warehouse from which you order.

WARRANTY

We guarantee to satisfy you perfectly; that it will give the full value for the price you pay. Any article purchased from us, we expect you to return, or will return your money, including any freight charges.

Roup Remedy

Silver Quill Roup Remedy is useful in cases of roup, canker, diphtheria, etc., in domestic fowls. Makes fifty gallons of liquid. Shipping weight, 7 ounces. Shipped from CHICAGO only.

No. 518955
 Per package.....39c



IMPORTANT!

REGARDING FREIGHT RATES.

We wish to remind you that since the Government has revised freight rates it is now possible to ship 200 pounds and, in some cases, 300 pounds for the minimum freight charge that you would have to pay if you bought only 50 pounds or 100 pounds. The minimum freight rate is now 50 cents. You can buy and have shipped 200 pounds and, to some places, as high as 300 pounds, at the same freight you would pay for only 100 pounds. To save all possible freight charges, do not order less than 200 or 300 pounds.

and Co., Chicago, Illinois





BUY Winter Feeds and Supplies NOW



EGG MASH



Silver Quill Egg Mash is our quality egg producer. It contains 27 different ingredients, as follows: Wheat bran, alfalfa, corn meal, oat meal, wheat middlings, meat scraps, bone meal, ground fish, powdered limestone, capsicum, rice polish, salt, dried milk, powdered cocoa shells, barley meal, old process oil meal, wheat flour, locust bean meal, flaxseed, blood flour, ground pens and beans, coconut meal, cottonseed meal, leungreek, anise and malt sprout meal.

Many poultry raisers make the mistake of not feeding a good dry mash. While scratch feed is a necessary part of the hen's food ration, its main function is to supply bodily nourishment and to furnish a reason for exercise, while egg mash is for the one purpose, that of egg production.

Analysis: Crude fat, 4%; crude protein, 19%; crude fiber, 10%.

No. 518921 1/4 100 pounds Egg Mash. Chicago, Indianapolis and Columbus price\$4.55
Kansas City price..... 4.80

Why?

Because Indications are that feed prices are lower now than they will be at any time this Winter.

Because In ordering now, you will avoid the danger of Winter freight congestion and delay.

Because We can now ship feeds from our warehouses in Columbus, Ohio, Indianapolis, Ind., and Kansas City, Mo., as well as Chicago. This should mean quicker delivery to you and a saving in freight.

Because If you fill your feed bin now, you need not worry if conditions later make it necessary to embargo shipments to your particular territory.

SCRATCH FEED

Silver Quill Scratch Feed is the best grade scratch we are able to secure. It consists of corn, kafir corn, barley, oats, buckwheat, sunflower seed and the percentage of wheat permitted by the United States Food Administration. Its analysis is as follows:

Crude Fat (Minimum)..... 2%
Crude Protein (Minimum)..... 9%
Crude Fiber (Maximum)..... 5%
Carbohydrates..... 60%

Silver Quill Scratch Feed contains only clean, sweet grains free from chaff. Scratch feed gives vitality and life, and should be fed with Silver Quill Egg Mash for maximum egg production. The price is low considering quality.

No. 518902 1/4 No grit. 100-pound bag.
Chicago price\$3.75
Indianapolis price 3.60
Columbus, Ohio, price..... 3.75
Kansas City price..... 3.89

Silver Quill Economy Scratch Feed is a low priced, well balanced scratch, consisting of wheat, cracked corn, kafir corn, barley, oats, wild buckwheat, sunflower seed, and not over 4% grit and 4% shell.

Economy Scratch Feed shipped from CHICAGO only.
No. 518922 1/4 100-pound bag. Price.....\$3.45



Laying Mash

Silver Quill Laying Mash is a good feeding mash for eggs. Like our Egg Mash, it should be fed dry. It contains the following ingredients: Meat scraps, luseed oil meal, corn feed meal, wheat bran, wheat middlings, ground oats, alfalfa meal, etc. Its analysis is as follows:

Protein13%
Fat 1%
Carbohydrates..... 45%
Crude fiber.....10%

No. 518967 1/4 100-lb. bag. Chicago, Indianapolis and Columbus price.....\$3.65
Kansas City price..... 3.85



Dried Buttermilk



Dried buttermilk is a comparatively new factor in animal feeding. It has been tested and proved, however, to be a good ingredient for mash feeds. Not more than 10% should be mixed in a mash of your own mixture.

Reputation Dried Buttermilk is made from pure fresh buttermilk, from which 90 to 95 pounds of water are removed from every 100 pounds. Its lactic acid content is an aid to digestion and the assimilation of food. The guaranteed analysis is as follows:

Crude fat 5%
Crude protein 25%
Crude fiber none

No. 518846 1/4 100-lb. bag. Chicago, Indianapolis and Columbus price.....\$9.45
Kansas City price..... 9.00

Meat Scraps



Silver Quill Meat Scraps analyze 50% protein and 8% fat. They contain the animal protein that is essential in balancing the hen's rations. Vegetable protein alone cannot be depended upon to produce the maximum egg yield.

No. 518925 1/4 100-pound bag. Chicago, Indianapolis and Columbus price.....\$5.35
Kansas City price..... 5.70

Oyster Shells

Owing to the scarcity of oyster shells we will be obliged to raise the price November 1st to \$1.15 per 100 pounds.

Silver Quill Oyster Shells are guaranteed genuine. They are ground and dried, not burned, and carefully screened and washed.

Remember, you may be able to add a 100-pound bag of oyster shells to your order for Egg Mash or Laying Mash without increasing the freight charges.

No. 518935 1/4 100-pound bag. Chicago, Indianapolis and Columbus price.....\$0.98
Kansas City price..... 1.35



Poultry Grit

Silver Quill Poultry Grit is a crystal white marble grit, bright and sparkling. It contains 97 per cent calcium carbonate (lime). It was the only grit used at the Coliseum Poultry Show in December, 1917. Not only does it perform its function of masticating the fowl's food, but it supplies mineral matter for eggs as well.

No. 518950 1/4 100 pounds net weight. Chicago, Indianapolis and Columbus price\$0.98
Kansas City price..... 1.35



Poultry Tonic

Your hens must be kept in good physical condition to be profit makers. SILVER QUILL Poultry Tonic is a tried and true formula for promoting thrift in fowls. Helps to shorten the moulting period. If your fowls are closely confined it will provide them with the necessary tonic needed for their health and keep them in good condition. Shipped from CHICAGO only.

No. 518951 5-pound carton. Price\$0.55
No. 518952 10-pound bag. Price 1.00
No. 518953 1/4 25-pound bag. Price 2.39



Charcoal

Granulated charcoal absorbs gases and aids digestion.

No. 518904 1/4 50 pounds net weight. Price.....\$1.75
No. 518919 1/4 100 pounds net weight. Price.....\$3.45
Shipped from CHICAGO only.



Disinfectant

Shipped from CHICAGO only.

Silver Quill Poultry Disinfectant is a coal tar preparation stronger than carbolic acid. One gallon in 70 gallons of water makes a harmless yet powerful poultry disinfectant. This is a good spray for poultry houses, sheds, nests, roosts and dropping boards. Full directions on every package.

518221 1/4 1-gallon can. Shpg. wt. 11 lbs. Price, \$1.37
518221 1/4 5-gallon can. Shpg. wt. 52 lbs. Price, \$5.85



Sodium Fluorid

The poultry lice killer recommended by the U. S. Department of Agriculture.

Sodium Fluorid is a white powder, applied by dusting. Easy to use and harmless. One pound applied dry by "punch" method will treat 100 fowls. Directions on package. Shipped from CHICAGO only.

No. 5182233 1-pound package\$0.35
No. 5182234 5-pound package\$1.50



Milk Mash

Silver Quill Milk Mash is a well balanced ration, containing 22 different bone and flesh building materials. It is a good mash for developing the baby chick from the day it is hatched until it is full grown. Also for fattening by the crate method or in any other way. Poultry fed on Silver Quill Milk Mash can be pushed to the limit without danger.

No. 518916 1/4 100 pounds. Chicago, Indianapolis and Columbus price\$4.98
Kansas City price..... 5.20



Pigeon Feed

Silver Quill Pigeon Feed contains only high class ingredients, such as wheat, corn, kafir corn, bean, peas, buckwheat and millet. Squabs are very profitable and can be easily raised. They are fed for the first two weeks by the mother pigeon with pigeon milk, which is a semi-digested food regurgitated from her crop. Shipped from CHICAGO only.

No. 518970 1/4 100 pounds, \$4.61



Silicate of Soda

PRESERVE YOUR EGGS FOR WINTER.

The U. S. Government is advocating the use of water glass for preserving eggs. One gallon of this Silicate of Soda Solution, commonly called Water Glass, is used for preserving from forty to fifty dozen eggs. A quart will preserve ten to fifteen dozen eggs. Preserves your eggs at home from the time they are plentiful until they are scarce and high priced. Full directions on every package. Sold at customer's risk. Shipped from CHICAGO only.

No. 518908 1/4 1-gallon jug. Shipping weight, 22 pounds.....89c
No. 518907 1-quart can. Shipping weight, 6 pounds.....27c



Lice Paste

Lice is one of the greatest enemies that the poultry raiser has to contend with; and it takes constant vigilance to keep them subdued. Silver Quill Lice Paste is an efficient remedy for destroying lice and ulcers (legs of lice) on chickens. A good remedy for scaly legs and head lice and easy to apply. Full directions with each tube. Shipping weight, per tube, about 7 ounces. Shipped from CHICAGO only.

No. 5182228 One tube. Price39c
No. 5182229 Three tubes. Price98c



IMPORTANT!

SAVE SILVER QUILL BAGS.

They are worth money to you. There are many uses for them around the home. They can be utilized to store things in, such as vegetables, grains, etc. Women report them satisfactory for dish cloths, etc. Some dealers are offering 10 cents to 20 cents each for bags in good condition. If you cannot use Silver Quill bags and wish to return them to us, we will allow 20 cents each for all Silver Quill bags that are clean and in good condition, delivered to our store in Chicago during October. Save your bags. Make them do double service.

Lice Powder

Silver Quill Lice Powder is a dusting powder for freeing poultry from lice and mites. Full directions on each can. It is effective and harmless. Shipped from CHICAGO only.

No. 518905 One-pound either top can. Price21c
No. 518906 Six-pound package. Price.....98c



These Prices Guaranteed to October 31, 1918 Order Direct From This Ad

It is our complete Poultry Price List for October. Remember we ship feed from our Columbus, Ohio; Indianapolis, Ind.; Kansas City, Mo., or Chicago warehouses. Be sure to give catalog number of each item desired and specify warehouse from which you wish shipment made.

OUR GUARANTEE

We guarantee that any article purchased from us will satisfy you perfectly; that it will give the service you have a right to expect; that it represents full value for the price you pay. If for any reason whatever you are dissatisfied with any article purchased from us, we expect you to return it to us at our expense. We will then exchange it for exactly what you want, or will return your money, including any transportation charges you have paid.

Roup Remedy

Silver Quill Roup Remedy is useful in cases of roup, canker, diphtheria, etc., in domestic fowls. Makes fifty gallons of liquid. Shipping weight, 7 ounces. Shipped from CHICAGO only.

No. 518955 Per package.....39c



IMPORTANT!

REGARDING FREIGHT RATES.

We wish to remind you that since the Government has revised freight rates it is now possible to ship 200 pounds and, in some cases, 300 pounds for the minimum freight charge that you would have to pay if you bought only 50 pounds or 100 pounds. The minimum freight rate is now 50 cents. You can buy and have shipped 200 pounds and, to some places, as high as 300 pounds, at the same freight you would pay for only 100 pounds. To save all possible freight charges, do not order less than 200 or 300 pounds.



Sears, Roebuck and Co., Chicago, Illinois



Get Eggs All Winter

Feed one drop of "OCULUM" to each hen daily and get eggs all winter. "OCULUM" destroys germ life in the bowel without injury to the fowl, and your feed goes into eggs.

Have 38 pullets, get 20 to 24 eggs a day, and have been all winter. Weather, from zero to 20 below.

"OCULUM" does the work. Mrs. J. F. Andress, Southern Cross, Mont., Mar. 5.

H. C. Miller, Akron, Judge Amer. P'ty Ass'n, says:

I fed "OCULUM" to 48 Leg-horns 24 days. Eggs jumped from 8 to 42 a day.

Hawkins, Fishel, Latham and this Journal O.K.'s "OCULUM." "OCULUM" cures Roup, Cholera and Diarrhea.

Bottles, 50c and \$1. Guaranteed. Trial bottle, 10c. Booklet free. Dealers handle it.

"OCULUM" CO. Box B SALEM, VA.

WARNOCK'S S. C. Brown Leghorns

200 CHOICE COCKERELS

in both light and dark brown
Also Pullets and Hens

My dark cockerels are very strong in saddle striping. Also 20 choice breeding hens for sale. Stock is bred from Coliseum, Milwaukee and Cedar Rapids winners. If you want to win in the most handsome variety of poultry, come to me.

Prices reasonable

W. G. WARNOCK GENESEO, ILL.

Foundation Stock

BARTLETT'S

S. C. W. "Lay"ghorns

are trapped and pedigreed, and an inspection of our farm is welcomed.

Our FIRST PRIZE HEN

for May (31 eggs) at the Am. Egg Laying Contest, is a daughter of No. 166, record 288 eggs, granddaughter of No. 64, 233 eggs after Jan. 6, and we have more like her. This is the kind of stock it pays to keep.

Send for catalog today and tell us your wants. EMORY H. BARTLETT Box 19, Enfield, Mass.



OUR W. F. B. Spanish

Won at the
OHIO STATE FAIR, 1918

1st Cock, 1-2 Hen, 1-2 Cockerel, 1-2 Pullet. A fine lot of young stock at attractive prices.

J. W. Friesner & Son, Box A, Bremen, O.

White Wyandottes

Buy your cockerels for next spring while you can get a good choice.

Some as low as \$5

MILLS CREEK POULTRY FARM - Eagleville, Ohio

W. J. FORREST, Prop.



Leave it to the Hen!
Leave it to the Chick!

More Eggs on Less Grain—
More Healthy and Strong Chicks

The 99.93% Carbonates Grit. Write for Circular, giving your Dealer's name.

Rockfield Products Company
Milwaukee, Wisconsin

by him in the frank and manly spirit which a man of honest purposes and convictions is ever ready to express.

"Mr. Felch's prosperity as a poultry breeder proves conclusively that the business is profitable when treated as any other industry must be in order to win success. True, he is a man who would have made a mark in any calling, but that fact does no more than to emphasize the truth of the proposition. He has made it a 'calling' by being in earnest in all the details. As a breeder, judge and dealer, he stands among the foremost and most widely known poultrymen in America. He is a man of broad intelligence; perhaps the best speaker, and surely the most atrocious penman in the ranks. His opinions are sought after by publishers because they know that readers demand them, but we have often thought it would be a saving of time and patience to send him a typewriter (the machine, of course) as a Christmas present.

We know that the above will be of interest to many readers, and, as one who has for more than twenty years handled considerable of Uncle Isaac's "copy," we can sympathize with Editor Bates' comment concerning the typewriter. Uncle Isaac never used one in the preparation of articles, so far as we have knowledge of them.

* * *

A. P. A. members may be interested in the following paragraph from an article entitled "Unity, the Great Desideratum," by Jos. H. Hamill, of Globe, Arizona, published in Poultry Monthly in 1895:

"We are not among those who view despairingly the present discord in the poultry fraternity over methods of judging, neither do we regard the strife between the American Poultry Association and the Decimal organization as interecine. In truth, we are of the opinion that the free discussion in the poultry press of the questions at issue, altho at times marred by intemperate language, will be productive of good, and that out of chaos will come order and harmony."

* * *

In looking over an April, 1918, bulletin of Purdue University, Indiana, entitled "Cost of Raising White Plymouth Rocks," we find the following interesting statements:

"Based on 9 and 10 weeks of life, it took 4.8 to 5.6 pounds of grain and 6.5 to 8.5 pounds of skim-milk to produce a two-pound W. P. R. broiler."

"Based on 28 weeks to grow a W. P. R. pullet, it required 30 to 37 pounds of feed and 22 to 37 pounds of skim-milk."

"Based on 24 weeks to produce a 6½-pound roaster, it required 27 to 34 pounds of feed and 22 pounds of skim-milk."

"Based on 41 weeks to produce a 9½-pound capon, it required 64 to 67 pounds of feed and 62 to 79 pounds of skim-milk."

"None of the data contained in the foregoing discussions are absolute, but they are indicative. Any poultryman rearing Plymouth Rocks, Wyandottes or Rhode Island Reds could take the amount of feed consumed by the birds in this experiment, multiply it by the cost of feeds in his locality, and easily obtain a fair estimate of what it would cost to feed his birds during any period of growth."

The bulletin will make interesting reading for any grower of American Class varieties, but its findings are neither final nor conclusive. The rations used in the 1917 experiment—the tests covered 1916 also, on a different ration—were: Grain—8 lbs, sifted cracked corn, 2 lbs, sifted cracked wheat, 2 lbs, steel cut oats; mash—2 lbs, bran, 2 lbs, shorts, 1.2 lbs, meat scraps. Plus green feed, grit, ground bone and buttermilk in abundance. As chicks developed, coarse cracked corn and whole wheat were substituted and oats eliminated except that during summer and early fall of 1917 whole oats and a prepared scratch feed were fed, as they were cheaper.

From the evidence submitted the feeding in these Indiana tests was not the market poultry feeding we practice here in the East, where some of the finest finished market chickens are produced. We have been growing White Rocks for market for quite a number of years, and we still grow them, tho not in as large numbers at present. We cut out broilers except for home use quite a while back, but when we are making White Rock broilers we aim to get a two-pound chicken in 8 weeks if we can and 10 weeks if we must. Growing broilers is a different proposition from growing roasters; with the former the forced feeding comes early, with the latter it comes after frame building is well advanced. We would be disposed to look upon 6½-pound males at 24 weeks as either "stags" or material growing into breeding stock. We make roasters, in this section, out of straight White Rocks and out of Brahma-Rock first crosses. The roaster chicken is almost always a capon, tho we often run the pullets among the "winter chickens"—summer and early fall hatched—thru as roasters, along with the capons. In investigations which we

STILES' COLORED Leg Bands

PROVIDE IDENTIFICATION

Identify birds as far as you can distinguish colors. Made in Red, white, blue, green, black and yellow.

Mention variety when ordering.



100-85c; 250-\$2.00; 500-\$3.50, postpaid.



100-85c; 250-\$2.00; 500-\$3.50, postpaid.



100-85c; 250-\$2.00; 500-\$3.50, postpaid.



100-85c; 250-\$2.00; 500-\$3.50, postpaid.

25-30c; 50-55c; 100-95c; 250-\$2.30; 500-\$4.50, postpaid.

Best of all, 12 for 20c; 25-35c; 50-65c; 100-\$1.20; 250-\$2.75; 500-\$5.00, Postpaid.

Large printed numbers, bright clear colors—Red, white, blue, green, yellow. Made of celluloid and aluminum. Adjustable. 12 for 35c; 25-65c 50-\$1.25; 100-\$2.25; 200-\$4.00; Victor Sealed Band—12 for 40c; 25-75c; 50-\$1.50; 100-\$2.75. Pliers 60 cents.

ALUMINUM BANDS



100-85c; 250-\$2.00; 500-\$3.50, postpaid.



100-85c; 250-\$2.00; 500-\$3.50, postpaid.



100-85c; 250-\$2.00; 500-\$3.50, postpaid.

Has raised figures. Adjustable. Strong, smooth edges. 12, 15c; 25-25c; 50-40c; 100-65c; 250-\$1.50; 500-\$2.75, 1000-\$5.25.

Raised figures, locks with double clinches. Prices, 12 for 15c, 25-25c; 50-40c; 100-75c; 250-\$1.75; 500-\$3.00.

The Commercial Sealed Band—Aluminum, raised figures. Sealed with soft metal rivet. 25 for 35c; 50-65c; 100-\$1.10; 250-\$2.60; 500-\$5.00. Pliers 60c.

Poultry Cuts New designs, a complete line. Catalog Sent Free.

Favorite Poultry Punch, Price 25 cents.

CHAS. L. STILES

Department 6

COLUMBUS, OHIO

Ford Owners Get This Book

The Story of CORK INSERT for Ford Cars

CORK INSERT
Transmission Lining for Fords

—one that goes into low or reverse steady and quiet, without that jump and jerk—that mends the brake quick and sure, and stops with velvety smoothness, instead of noisy chattering and racking vibration which causes repairs and ruins the rear end. Tells what users say about

—how it outlasts several sets of ordinary linings because less pressure is needed. Has made records of 10,000, 15,000—up to 50,000 miles of perfect service. Also tells about Cork Insert No-Slip Fan Belts and better Brake Lining for big cars.

Just Send Your Name
and address on a post card—or tear out this ad and write your name on margin. We'll at once send book. Agents won't pester you. We have none. Write now.

Advance Automobile Accessories Corp.
Dept. 43, 56 E. Randolph St., Chicago

Oat Sprouter \$2.49

For \$2.49 you can build the simplest, most efficient, easiest to operate and best oat-sprouter ever constructed. A boy can make one in an evening with no tools but saw and hammer. Thousands in successful operation. Plans with plain directions for building, 10c postpaid.

E. PUTNAM, Route 1005 ELMIRA, N. Y.

have conducted, it takes approximately 64 pounds of feed to make an 8-pound soft-roaster in from 22 to 24 weeks with White Plymouth Rocks. With Brahma-Rock crosses we can and do get 9 1/2 to 10-pound roasters at 22 to 24 weeks, but with more feed in about the same proportion to weight. We do not use skim-milk or buttermilk often because it is seldom available, or, if we have it, we usually are putting it into hogs. In A. P. J. for December, 1917, we published a table showing the approximate amount of feed required to produce an 8-pound White Rock roasting chicken at six months old. Of course, this table does not include green forage which is obtained freely on range while the chickens are making frame and until heavy fall frosts have spoiled the pasture. Here is the table:

Chick rations	4 lbs.
Bran	8 lbs.
Beef scraps	12 lbs.
Corn—cracked first, then whole.	40 lbs.
Total	64 lbs.

There is a vast difference between putting 64 pounds of feed thru a chicken in from 22 to 24 weeks and taking 41 weeks to do it. The longer it takes to grow chicken meat the less it is apt to bring in the market and it costs more for labor and housing. We have made White Rock soft-roasters to weigh 10 pounds at 6 months old and Brahma-Rock crosses two pounds heavier at the same age. The pullets of the cross will often tip the beam at 10 pounds at that age. They are marketed before they lay, if possible, and they would never make profitable layers.

Lays One Thousand Eggs.

Aristocrats in every poultry flock in Indiana ruffled up their feathers a little and walked haughtier than ever when word filtered thru their midst that Purdue's Joan of Arc, a plain little White Leghorn on the Purdue University Farm at LaFayette had set a world's record for production when she laid her one-thousandth egg. A number of the hens in the Purdue flock scoffed, because the world's champion never in her seven long years had laid 200 eggs or more a year as they had.

However, it is a notable fact that these 200-egg birds have lived too fast a life, and after a year or two of fame in the great white way of chickendom, have gone the route of all fast livers. Due honor should be paid this little, peaceful, unassuming queen of the layers, who does no more than cackle over her deeds and part in supplying the nation's food.

Seven years ago last March this now famous bird picked her way to freedom thru the walls of an egg shell. During her young days as a pullet she displayed no unusual talent, looking and acting like her sisters and cousins in the Purdue flocks. However, in October, when she was barely past the half-year mark, she started on her march to the world's record, something for which chickens of all colors, sizes and breeds have striven for centuries, so poultry tradition goes.

The first year she was in the egg business, Purdue's patriotic hen produced 147, or more than 12 dozen eggs. The next year, fall of 1912 to fall of 1913, she did the unusual, bettering her mark of the first year by 15. The presidential campaign of 1912, with the accompanying excitement, only spurred her on to greater efforts, apparently.

The third year brought reverses to her business and she could show only 119 eggs on the right side of the ledger at the close of the year. The fourth year, fall of 1914 till 1915, was her boom period and that year she laid 185 good Hoosier eggs, fit for any king—of the entente powers. The following year business continued good at the Joan of Arc room on the Purdue farm and 160 long marks on the tally sheet were in her favor at the close of the year. From 1916 to the fall of 1917 she lost some of her old powers, but still chalked up 127 eggs, about 40 more than the average Indiana liddy is able to do in a year.

From last October until August 20 this bird demonstrated her patriotism to the world by laying 100 eggs in spite of the infirmities of age and she gives promise of going well above the thousand mark before her books are closed for the fiscal year.

The feat of Purdue's Joan of Arc is all the more remarkable when the average life of the layer is only two years. In her seven years of service for humanity she has laid her own weight thirty-three times over, has produced more than 83 dozen eggs and figured only at market price, perhaps 30 cents a dozen, they were worth \$25.

"Every year we have had her she has more than paid her board," said Prof. A. G. Phillips, head of the poultry department. "One of the men said she was worth her weight in gold, but the reader will have to draw his own conclusions." T. R. Johnston.

Purdue University.

The Meanest Job on the Farm—work so disagreeable that it often is left undone, even though leaving it undone means smaller production and sometimes severe money loss—is mixing and applying whitewash. You can turn this disagreeable task into an easy, pleasant, rainy-day job. You can save yourself time, labor, money, and get better results. You can do both your whitewashing and your disinfecting at one operation. You can make your farm buildings, cellars, etc., lighter, better looking, a pleasanter place to work and a healthier place for your livestock to live if you will use



CARBOLA
The Disinfecting White Paint

a snow-white paint in powder form combined with a germicide, or disinfectant, that is many times stronger than pure carbolic acid. Carbola is neither poisonous nor caustic, but it kills lice, mites, fly eggs, etc., and will help prevent the germs of contagious diseases that affect poultry and livestock—roup, white diarrhea, cholera, glanders, contagious abortion, etc.,—from getting a start and spreading thru your flock or herd.

Carbola is ready to use as soon as mixed with cold water—no straining or waiting—and it can be applied to wood, brick, stone or cement surfaces, or over whitewash, with either a brush or a spray pump. One gallon covers about 200 square feet. Carbola will not blister, flake or peel off, it has no disagreeable odor to taint milk or other food products, it will not clog the sprayer, it doesn't spoil by standing. The dry powder is unexcelled as a lice powder.

Use It Instead of Whitewash

in your poultry houses, stables, hog pens, cellars, out-buildings, etc. Make them sweet smelling and sanitary. Satisfaction guaranteed.

- 10 lbs. (10 gals.) \$1 and postage
- 20 lbs. (20 gals.) \$2 delivered
- 50 lbs. (50 gals.) \$4 delivered

Trial package and interesting booklet for 25c postpaid

Your hardware, seed, paint or drug dealer has Carbola or can get it. If not, order direct—shipment by parcel post or express the day order is received.

CARBOLA CHEMICAL COMPANY, Inc.
Department I

7 EAST 42nd STREET, NEW YORK



USE KEY-RING-O LEG BANDS



Simple, scientific and absolutely satisfactory. Used by the U. S. Government, by practically every Agricultural College, and by leading Poultry Raisers everywhere.

Made in 10 Colors—6 Sizes

Black, White, Dark Blue, Pink, Light Blue, Red, Yellow, Green, Purple and Garnet.

	12	25	50	100	250
No. 3—Baby Chick	10c	20c	35c	50c	\$1.15
No. 1—Pigeon	10c	20c	35c	55c	1.25
No. 5—Bantam	15c	25c	45c	75c	1.75
No. 2—Mediterranean	15c	25c	45c	80c	1.85
No. 4—American	15c	30c	50c	85c	2.00
No. 6—Asiatic	15c	30c	50c	90c	2.15
No. 7—Turkey	15c	30c	50c	90c	2.15

Special price on larger quantity. Send 14c and we will immediately mail you 15 Bands. State size and color wanted.

C. H. GORDINIER Dept. J. TROY, NEW YORK

CARBO STEEL POSTS



STRONG LIGHT, SPRINGY STEEL

UNIT cheapest, most durable, SYSTEM sanitary poultry fences.

Bolt together for rigid corner, gate or end posts. Use units singly for line posts or Carbo Drive Posts. First cost of post less than wood. Made any height. Write for Booklet Today.

CARBO STEEL POST CO. Department C CHICAGO HEIGHTS, ILL.

1896 WILLIAMS WHITE WYANDOTTES 1918

CHAMPIONS OF 1916-17-18

At Hagerstown 1916 and the last two shows at Madison Square Garden. I won first prize on 26, and 2nd on 3, out of a possible 32 first prize birds. I bred and raised every bird I exhibited. If you want quality, who can furnish better? Send for catalog and prices to the White Wyandotte specialist.

F. B. WILLIAMS Box H Naugatuck, Conn.

White Rocks COCKERELS and PULLETS

from PRIZE-WINNING STOCK at reasonable prices.

Also a few White Leghorn Cockerels. Myron Alberstett, Davis, Ill. Write for prices.

3 years—36 issues—of American Poultry Journal for \$1



Consider Seriously

the possibilities in my

"Famous" Anconas for you.

They're very heavy layers of fine white eggs. Winter and summer they work. They're winners of worthwhile prizes at shows ranging from the World's greatest to County Fairs. They're active, beautiful birds that anyone would be proud to own. They are doing their bit to win the war by producing good food. I wish you would seriously consider this strain on which I have put so many years of thought. It's excellent. You'll find it fills the bill with you.

Won't you drop a line for my Free Book that gives proof of their profitable qualities?

H. Cecil Sheppard, Box M2, Berea, Ohio



IT IS SURELY the "Golden West," so far as the Mid-West is concerned this season. The crop yield is a record-breaker and prices are very high. The great fields of golden yellow corn will soon be invaded and the returns will be great. Everybody is prosperous and as happy as it is possible to be in these war times.

There is always something to take the joy out of life. Each season seems to bring a new insect or fungus disease to damage our fruit and vegetables. I have a number of late tomato vines which are not staked. Every tomato which touched the ground was entered by a cutworm. I cut several of the tomatoes open and in each one I found a great big cut worm. This is a new one so far as my experience goes.

We are getting 35 cents per pound for our honey. At that price for honey, bees are the most profitable things we have on the place. The high price and scarcity of sugar has sent the price of honey upward. I have always urged A. P. J. readers who are in a position to keep bees to put in a few stands. I have never received less than 15 cents per pound for comb honey, and at that price there is a big profit in it.

I live in Iowa and intend planting some apple and cherry trees. Would like your advice as to what to plant, that is which varieties of apples and of cherries. Is the fall a good time to plant these trees? Also, what should be done to protect them during the winter? Are apple and cherry trees planted the same distance apart?

Do you know where I can buy good apple and cherry trees in Iowa? If not there, where should I buy them? What time in the fall is the best month to plant?

Missouri.

Henry Senereid.

You do not state in what part of Iowa you intend to plant your orchard. For southern and central Iowa, would plant Delicious, Grimes' Golden and Black Ben apple trees. For Northern Iowa, Wealthy, Patton's Greening and Iowa Brilliant. In cherries, plant Montmorency and Early Richmond, making the planting two-thirds Montmorency. Fall planting of apple and cherry trees in Iowa is not advisable. You should wait until next spring and then get the trees into the ground as soon as possible. I have found by experience that it is best to secure the fruit trees in the fall and heel them in. By so doing the trees are in the ground all winter, where the root of a tree properly belongs, instead of being kept in a packing shed all winter. Then, too, trees so treated are on hand the moment needed for planting. In heeling in the trees, select a location where water will not stand. Dig a slanting trench the length of the longest tree,

two feet deep at the end for the roots and ten inches at the top end. Trench should be wide enough to allow the stock to be well spread apart, as the dirt must be well packed and no air spaces left. Mud the roots thoroly in thick mud. Sift the dirt on and cover up the entire tree, root, body and branch. When the earth

70

AUTUMN
SPECIALS

My annual sale is now on. Send for price list. Get it at once because there are only 70 specials this year—with no duplicates—and they will soon be gone. Discounts for immediate acceptance are liberal.

You can't go wrong on pure Ancona stock Sheppard bred and raised.

Eggs will be sky-high this winter. Get the strain that lays the most eggs at the lowest cost. My breed holds the world's championship for egg production, both for flock and single bird. If you haven't my catalog send for it and read page 49 at once.

H. Cecil Sheppard
Box M2 Berea, Ohio

Thomson's S. C. Rhode Island Reds

REAL RED REDS

The kind that are bred red and stay red. The kind of reds that bring joy to the fancier's heart and dollars to his pocket.

500 Cockerels and a Few Hens and Pullets for Sale

Birds of type, color and quality, the result of careful selection and scientific breeding. The best blood in the country was secured as the foundation of our flock, and constant improvement has been our watchword. Birds fit to win at any show, coupled with heavy egg-laying ability, are what we offer you at "live and let live" prices.

GERLD THOMSON

DEPT. A

AUSTIN, MINN.

PARTRIDGE ROCKS

Madison Square Winners. Year after year they sweep the show. Eggs, Show and Breeding Stock for sale. Send a stamp for either Partridge Rock or Turkey catalog.

BIRD BROTHERS

BOX C

BRONZE TURKEYS

MEYERSDALE, PA.

is all on, tramp the surface down hard to turn water. As soon as the ground has frozen about four inches, cover the trench with two feet of straw or stable manure. Do not uncover until spring, just as you are ready to plant. The straw covering on the root end of the trench should extend out on the ground at least three feet beyond the roots to insure complete protection to the stock lying nearest the surface. Set your apple trees 30x30 feet, the cherry trees 20x20 feet. There are a number of reliable nurserymen in Missouri and Iowa.

The woods near our place this season produced hundreds of bushels of wild cherries and grapes, as well as gooseberries. These fruits were eagerly sought by the people and many who could not afford to pay the high prices at which cultivated fruit of these sorts was selling will have a goodly supply of winter preserves, etc. A lot of the cherries were made into wine.

We have just bought a home. The lot is 60x200 feet. We want to set out fruit trees. There are no trees on the lot. We expect to make a specialty of raising chickens—no garden. We want trees for shade as well as fruit. What to set out and the kind is the thing we want to know. We desire early apples and some late ones. Also pears, peaches, plums, cherries, etc. The lot is a ridge and slopes back and front, being high in-center. The lot fronts to the south. The back part of lot is full of gravel. The center and front has a clay subsoil, with no sand or gravel.

Arkansas. W. D. Corya.
For early apples plant Henry Clay, Liveland Raspberry and Duchess. You ought to have a few Wealthy for fall. For winter varieties plant Delicious, Senator, Champion and Black Ben. Would plant all Montmorency cherries. For peaches—Early Elberta, J. H. Hale and Kimmel October. You will find it difficult to raise pears owing to the damage by blight which is prevalent in your state. Advise you to plant a few Lincoln. I have had this variety on my place here for twenty years or more and it has never shown signs of blight. You will find Omaha, America, Golden and Endicott a grand good lot of plums. Of course you will want to plant some Eclipse, Worden, Niagara and Concord grapes. Also Red Cross and Diploma currants and Champion and Oregon gooseberries. You should plan to keep a few stands of bees. You will find the north side of your ground better suited (so far as sun exposure is concerned) to raising fruit than the south side. Fruit planted on land with a southern exposure usually comes out in bloom early and is liable to be caught by spring frosts.

If you have not made the currant and gooseberry cuttings as you should have done last month, do it now. Plant as directed in this department.

DR. HESS INSTANT LOUSE KILLER



KILLS LICE ON POULTRY AND STOCK

Don't let your hens be pestered with lice during the moult. They will need all their strength and vitality then. You can rid them of lice easily, certainly, quickly, by using Dr. Hess Instant Louse Killer, the dependable, guaranteed remedy. Dr. Hess authorizes every one of his 28,000 dealers to sell it on a money-back guarantee. Sprinkle on roosts, in coops, sift in feathers, put it in the dust bath and your hens will do the rest. For lousy colts and other stock, stroke the hair the wrong way with one hand, with the other sift in the Louse Killer.

1 lb. Can, 30c; 2½ lb. Can, 60c (except in Canada)

Dr. HESS & CLARK, Ashland, Ohio



Imperial Strain White Houdans

Fine Breeding and Show Stock for Sale

from Chicago Coliseum and Madison Square Garden Winners. Won at Madison Square Garden Show, 1917-18: 1st and 3rd Cock, 2nd, 3rd, 4th and 5th Hen, 1st and 2nd Cockerel, 1st, 2nd and 3rd Pullet and 1st Pen.

Imperial Poultry Farm R. F. D. 1 Elizabeth, N. J.

Get the American Poultry Journal 3 years for One Dollar

Get 50% More Eggs

Feed Sprouted Oats

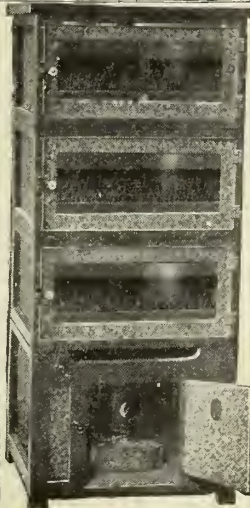
MAKE three bushels of fresh, green, tempting feed from one bushel of oats, wheat or rye. Turn loafing hens into money-making egg producers—have eggs to sell when prices are highest—get fertile eggs for spring hatching—all at a big saving in feed cost. Every poultry raiser should have a "Successful" Sprouter. Saves its cost in a few days' feeding and then keeps on saving money and doubling up your profits for a lifetime service. Just what's needed in fall and winter to keep hens laying and needed again in the spring to make chicks grow into lively profit-producing birds. Write at once for complete 1918 offer. Sold on trial and pays for itself before trial runs out.

"SUCCESSFUL" GRAIN SPROUTER

Practically All Steel—Made in Sections

Double steel walls—metal trays. Cannot be compared to wooden sprouters. Warp proof—shrink proof—swell proof—nothing in it to rot—food cannot mold. Glass doors. Each section a separate compartment. Start with enough sections for your needs and add more as you need them. Here is a money maker. It has increased egg yields 50 per cent—in some localities more. Takes only 15 minutes a day of your time. Sprouts oats in 24 hours and then grows an inch of crisp green sprouts every day. One feeding of sprouted oats at noon each day increases the egg yield, cuts feed cost one-third. Write for full details. Famous booklet, "Proper Care and Feeding of Little Chicks, Ducks, Geese and Turkeys," 10 cts. Write today.

DES MOINES INCUBATOR COMPANY
561 Third Street Des Moines, Iowa

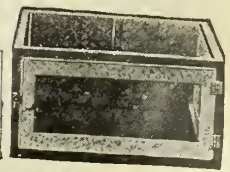


All We Claim For It and More

Madrid, N. Y., May 23rd, 1916
Des Moines Incubator Co.

Last February I ordered a No. 4 Sprouter from your Company and has been in steady use since we received it and we still intend running it longer. It is all you claim for it and then it is "some more." In fact we are well satisfied with it. It is so handy to operate and has nothing to get out of order. I can and will recommend the Des Moines Sprouter for cheap Green Feed for Hens.

Ray E. Henry.



FERRIS LEGHORNS Lay Winter Eggs

For eighteen years Ferris White Leghorns have been bred to lay more eggs at all seasons than ordinary hens, and to lay particularly well in winter when eggs are highest. We do not breed from hens that are not good winter layers.

All Stock Is Shipped on Approval.—You can return within three days any birds not satisfactory and money will be refunded. (We will ship C. O. D. if you want to see the birds before paying for them. Send only \$1.50 for a pen of five, and 20 cents each for larger numbers to guarantee express charges.) We insure all stock for 30 days. Any birds that die or get out of condition will be replaced free of charge.

We have three grades of laying stock. Stock from our heaviest laying strain with trapnested records of 230 to 264 eggs will cost as follows: **Early hatched cockerels**, \$10 each, \$9 each for 10 or more. Yearling hens or laying pullets, \$5 each—1 male, 2 females, \$20; 1 male, 4 females, \$30; 1 male, 8 females, \$45; 1 male, 12 females, \$60; 7 males, 100 females, \$428.

Stock from 200 to 230 Egg Strain.—The kind we recommend for breeding and laying where large flocks are required. Early hatched cockerels, \$7 each, \$6 each for 10 or more. Laying pullets or yearling hen, \$3.50 each; 4 females, 1 male, \$21; 12 females, 1 male, \$47; 100 females, 7 males, \$327; 100 females without males, \$285.

Utility Stock for Laying and Breeding.—Not bred from trapnested stock, but from stock that we can guarantee to be better than the average. Cockerels, \$5 each, \$4 each for 10 or more. Hens, \$2.50 each, \$200 per 100. Pullets, \$3 each, \$250 per 100. Four hens, 1 cockerel, \$15; 12 hens, 1 cockerel, \$32.

Winners for Any Show.—We can furnish cocks and cockerels hatched directly from our Chicago Coliseum winners at \$30 to \$100. Hens and pullets at \$15 to \$50. These birds will win anywhere. They have splendid low tails, good heads, wonderful shape in every section, and pure white plumage. We have hundreds of early hatched cockerels and pullets to select from. For several years Ferris Leghorns have been leading winners at the Chicago Show, winning in 1915, 3 firsts and numerous other prizes, including silver cup for best display and silver cup for best five cockerels. In 1916 we won all specials, all first and second prizes, and last December we won three first prizes and 16 other prizes, so no matter where you wish to show we have the birds that will win for you. Here are our winnings this fall:

Missouri State Fair, Sedalia, August, 1918—3 firsts and 8 other prizes.

Michigan State Fair, Detroit, September, 1918—All first prizes; 13 prizes on 14 entries.

Interstate Fair, South Bend, Ind., September, 1918—4 firsts; 16 prizes on 16 entries.

West Michigan State Fair, Grand Rapids, September, 1918—4 firsts; 18 prizes on 18 entries.

We will exhibit at several other shows this fall. Watch our winnings.

This 1918 Catalog Is FREE

Send for your copy today. It describes fully the stock quoted above. Contains photos showing 35 acres of White Leghorns; describes our methods of feeding and care; how we improve laying qualities; list of winnings at 20 big shows; many letters from customers; prices of exhibition, breeding and laying stock, eggs for hatching and day-old chicks.

GEORGE B. FERRIS
905 Union Avenue Grand Rapids, Mich.



I am going to plant an orchard this year and would like some advice as to what you would plant for early and late bearing apples, peach, plum, cherry, pear, crabapple, strawberry, raspberry and blackberry. I want to plant enough for my own use and also for local trade. When should I plant? Is it better to break up ground before one plants an orchard? Could one sow bluegrass or timothy in orchard ground? Please mention reliable nurseries close to me. Elmer E. Peeples, Illinois.

Would advise you to plant Yellow Transparent, Liveland Raspberry and Duchess for early apples. For late varieties, plant Delicious, King David, Grimes' Golden (double-worked on Duchess) and Black Ben, Peaches: Early Elberta, J. H. Hale, Elberta, Capt. Ede and Kimmel October. Plums: You will do well to plant the hardy American sorts, using Omaha, Surprise, Weaver, Wyant, and Jerry. You will thus produce great crops of very good plums, while with the more showy kinds you would have lots of trouble with winter injury and your crop would be light. You might plant a tree or two of Gold America and Endicott, to try them out. Cherries. Montmorency, without one-fourth of the planting to Early Richmond. Do not plant heavily to pears, as the blight is very prevalent in your state. Would confine the planting of pears to Lincoln and Seckel. Crabapples: The Florence is "worth all other crabs put together," as one grower puts it. I cannot advise you as to what varieties of strawberries to plant. This is something which you must learn by noting the kinds adapted to your locality. Write your state horticultural people. Give them a full description as to your soil, how well drained it is and the exposure. You will find the Royal Purple and the Cumberland the best and most profitable raspberries. The Royal Purple is a large purple fruit and this variety will produce more bushes of fruit to the acre, two to one, than any other raspberry. The Cumberland is the best and most prolific of the Black Caps. The Cuthbert is the best of all reds, but it is likely to winter-kill with you. The Snyder is the most hardy of all blackberries. There are better sorts, but commercially none can compare with the Snyder for your locality.

By all means break up the ground this fall. Never plant fruit trees or berry bushes in sod if it can be avoided. Do not seed down the orchard. Keep it cultivated until about July 15 each year. Then plant a cover crop. This cover crop should be plowed under each spring. After the apple orchard is five years old, you can let it grow to grass, provided you cut the grass each July and pile it around the trees, never removing a bit of the grass from the orchard.

Every fall and spring I have a number of inquiries as to how to determine the number of trees or bushes to plant to the acre, to be set certain distances apart. Here is the answer: The number of square feet in an acre is 43,560. Divide this amount by the number of square feet required for each plant. Thus, to find how many currants are required for an acre, planted 4x6 feet—six times four equals 24 and 43,560 divided by 24 equals 1,815, the number of currant bushes required for an acre.

By parcel post I am sending you two apples from a tree on the farm of Mr. Forsythe of this place. You will notice one is a real Russet. The other is of the Winesap family, I think. Now, these apples grew on the same limb, not over six inches apart. Every limb on this tree is about equally divided between these two kinds of apples, which is considered a rarity here. No one here ever saw anything like it and I would like to hear from you on the subject thru the columns of A. P. J.

W. H. Harris.

OWEN FARMS

**S. C. R. I. Reds
White Ply. Rocks
Buff Orpingtons
& S. C. W. Leghorns**

are known all over the world as the best flocks of these varieties.

The record of my birds at Madison Square Garden, New York (where 418 Owen Farms birds have won the blue), Boston, Chicago, New York State Fair, Pittsburgh, and the leading shows of the South, has never been approached.

Thousands of Owen Farms birds have won firsts in the hands of customers.

**My Latest Winning
at the Greatest of all Fall Fairs
New York State Fair
SYRACUSE, SEPT., 1918**

FIRST DISPLAY IN EACH VARIETY

Reds—1st and 2d cock; 1st and 3d hen; 1st and 3d cockerel; 1st, 2d and 3d pullet; 1st old and 2d young pen, and best display.

White Rocks—1st and 2d cock; 2d and 3d cockerel; 2d pullet; 1st pen and best display.

Buff Orpingtons—1st and 3d cock; 2d and 4th hen; 2d and 3d cockerel; 1st and 2d pullet; 2d old and 1st young pen; best display.

White Leghorns—1st and 3d cock; 2d and 4th hen; 2d, 3d and 4th cockerel; 1st and 2d pullet; 1st old, 1st and 2d young pens and best display.

Customers have won all over the country this fall in both old and young birds.

What You Will Find Here

1. Golden Rule treatment.
2. Exceptional value.
3. Unequaled Standard quality.
4. Unexcelled utility qualities.
5. Perfect health and vigor.
6. Naturally grown birds, on free range with same feeding.
7. Utmost courtesy.
8. Absolutely square dealings.

Old customers will endorse every one of these truths. New ones will find them facts.

If you want the highest quality birds for show and breeding at fair prices; if you want strong properly grown utility birds at fair prices; if you want prompt and careful consideration of your inquiry; if you want to make your poultry business successful, you will come to OWEN FARMS.

Liberty Bonds and Savings Stamps taken in payment. You can help Uncle Sam win this war and then secure your poultry needs.

My August and September trade was well ahead of 1917. The break will come soon. Now is the time for you to get ready to share in the vast volume of business in thoroughbred poultry that will soon be done by the breeders that have the birds.

Over 6,000 birds are on Owen Farms. Among them are the ones you need. Write your exact requirements and receive a quotation. Come and see for yourself if possible. If you cannot come, write.

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Vineyard Haven, Mass.

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Water! Water!
WHERE and WHEN you want it—
—for house, barn, field, all year round. **BORE YOUR OWN WELL.**
Standard Well-Boring Outfit
Hand operated. Bores wells 8 to 16 in. dia. 40 to 100 ft. deep. One man bored 40-ft. well in 10 hours and put in casing.
BORES 100 FT. WELLS BY HAND
One day's work pays for it
Easy to get 50 cts. to \$2 per ft.—make \$20 to \$30 per day boring wells for neighbors. One man bored 75 wells, another has 8 ordered, another 6. Satisfied users in 46 states. Every claim guaranteed and proved. Write TODAY for information and testimonials.
★ Thousands used on war front by U. S. and English Governments. ★
THE SPECIALTY DEVICE CO.
Dep't 84 106 West 3rd Street Cincinnati, O.

It is quite common for bud varieties to show on a tree. As a result we have five strains of Rome Beauty apples. All are typical Rome Beauties, some with better coloring and some better size. You say "every limb on this tree is about equally divided between these two apples" and you may well say it is considered a rarity. I should think it was. That is bud variation gone mad. But I strongly suspect that someone has been busy, very busy, on that tree with a budding knife and some buds. The apples were badly rotted when received.

I wish Theodore Hewes would write more often for the American Poultry Journal. When one reads an article by Theodore Hewes, one has a feeling that Theodore is sitting near by, telling you a very interesting and instructive story.

Noting what you said in June issue about winterkilling of trees, beg to advise you that here in northern Illinois, which has about the same climate as northern Iowa, there was some damage from the severe weather last winter, but nothing serious. The only plum tree that I lost out of a dozen varieties was an Endicott Mammoth Gold, but it sprouted above the bud and is coming along fine again. For the last two years my plums have bloomed freely; this year they set a little fruit, which fell off, but no harvest. Trees are young, four to five years old. With age, will they be likely to do better? Do you know of a variety that can be relied on for a crop at least once in two years? My ground is too valuable to be given up to trees that bear foliage only. Six years ago I planted about forty peach trees. This year I got perhaps 250 peaches. All those trees will be cut down and cherries planted instead.

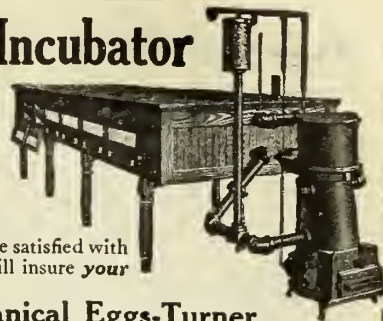
My Whitney crabapples are fine, as are also the Florence. I fenced off with wire netting about an acre of the orchard. In May and June this area is a jungle of clover, alfalfa and other grasses. I wanted something to keep the grass down, so I tried sheep, but they immediately set to trimming off the low branches and eating the bark on the trunks of the trees. As a result I had to cut out the sheep. Of course, I had plenty of chickens, but they were not exactly satisfactory, as they would eat the grass close, near the poultry houses, and leave the jungle a hundred feet away untouched. Besides, they have a habit of starting a hole and then digging down in the same place until part of the orchard is full of these pitfalls, into which one is liable to tumble unless he watches his step carefully. Finally I tried geese, and they are very satisfactory. They wander all over the orchard and keep the grass nipped down in good shape, doing no damage so far to the trees. They do not touch the fallen fruit, because it is too large for them to swallow, but if quartered they eat the wormy apples ravenously. When fall comes we will eat the geese with the assistance of the neighbors and early next spring I shall again buy eggs and hatch out half a dozen goslings to keep down the orchard undergrowth. The beauty of geese under these conditions is that they get their living during the summer for about nothing. Of course I shall keep chickens also, giving them the run of the orchard, but geese are better lawn mowers, and besides are not always digging holes. To be sure, they cover the ground with manure where they rest at night, but if kept in a lot a little distance from the house, this is not objectionable; anyway, they are less obnoxious in this respect than ducks. W. V. S.

Illinois.
I want to thank W. V. S. for his very interesting letter. I had been thinking of writing an article advising the keeping of geese in the orchard. It seems to me nearly every orchard could profitably keep a flock of geese. Will other orchardists who have kept geese please give our readers their experiences?

In answer to P. R. Rand, Ohio: You will find Rome Beauty apple trees a profitable va-

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The Best Chicks—
With Least Labor—
And at Lowest Cost—



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(Signed) C. H. BURGESS, Assoc. Prof. of Poultry Husbandry.

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White Leghorns White Wyandottes AND Rhode Island Reds

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Bertley Farms
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Best Quality, Wonderful Producers



If you want the best; selected from the finest bred young stock of these famous breeds we can furnish them; you can't get better. Pullets and Cockerels from \$3 up, each.

Selected yearling hens (a few only) good layers—\$2.50, \$3 and \$4 each.

When you buy Bertley Farm fowls you get the results of expert selection, careful breeding for results, great care in rearing, good management, scientific methods, modern equipment and no sparing of money to produce the best.

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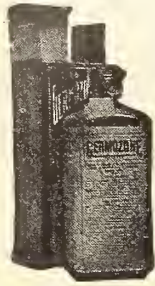
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Germozone

Made for man—it is all the better for poultry or stock. Sores, wounds, skin diseases, loss of hair, fur or feathers, roup, canker, sore head, chicken pox, cholera, white diarrhoea, bowel complaint, the one best remedy, and the ideal flock treatment, preventive as well as curative, is **Germozone**

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No dealer can consistently decline to handle Germozone. We supply the tablet form by mail. Germozone is generally handled by dealers in the liquid form, but the tablets are just as good and are so easily available. 75 cents per package. No charge for postage. C. O. D. if desired.

With a package of Germozone we will send free on request a Lee Poultry Library of 5 books telling best ways to handle poultry, at every stage of the game—from egg to dressed for market—most successfully and profitably.

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Makers also of Lee's Lice Killer, Lee's Egg Maker, Lee's Louse Powder, Flyo-Curo, Lee's Dip, Lee's Hog Remedy—also household remedies and Egg-O-Latum, the great Winter Egg preservative. All in above books.

Used by the big chicken raisers of the country. Used and recommended by the great American School of Poultry Husbandry. Used in all of the poultry contests at that station and they always show best results. No other poultry medicine can compare with **Germozone**

Germozone

And it is so universally useful on the farm, in the home or poultry yard. Hundreds of factories, many now working on munitions, use it always in case of injury in preference to "Peroxide" or other antiseptic. I have seen many great wounds healed quickly without a scar by use of **Germozone**

Germozone

But the great big use is its prevention of poultry troubles by giving it regularly two or three times a week in the drinking water. Roup, canker, colds, bowel trouble, limber neck, etc., are rare in flocks that regularly get **Germozone**

Germozone

riety to plant in your Ohio river bluff lands. It is an apple of fair quality, a good looker and sells well.

Yes, I think you are right in your idea that when prohibition of liquor becomes national there will be an increased demand for grape juice, and that now is a good time to set out vineyards.

I have never heard of the Grange apple of which you speak.

I am writing for a little information relative to your speciality in the poultry line—the Houdans. I am a veteran breeder and for 33 years have been at it most of the time, and being more or less of a writer and a judge, have shifted around among breeds a great deal. I originated the White Wyandottes 32 years ago. Possibly others may have done the same thing, but I have never met anyone who did.

I am just taking up the Houdans. Never tried them before, altho have long been an admirer of them. I wish to know about their laying qualities. Do they lay a large number of eggs—say, average 120 to 160 without tramping and breeding for large numbers?

Are their eggs fairly large, as a rule? Are they non-sitters?

Again, how about their meat and table qualities, both as to quantity and quality?

Still again, are they hardy? Do they stand cold weather well and thus lay fairly well in winter? Also, are the chicks strong and is the mortality rate low?

Yet again. If you can answer most of the questions in the affirmative, why do not more breeders take them up and breed them as an all-purpose fowl?

Brother Rigg, you will notice most of these questions are of general interest. I am asking you to reply to me in person, briefly perhaps, but the questions are to serve for a more lengthy reply in A. P. J. to give the breed more of a boost. I will take hold of them now in earnest and want to do all I can to place them where I fully believe they belong, in the very front rank of the most useful and profitable breed for fancier and farmer alike.

Lowa. Horton B. Green.

1. The Houdan, under good care, will lay 120 to 160 eggs per hen per year.

2. Eggs are larger.

3. I consider the Houdan the best of all table fowls. They are non-sitters. Once in a while one will want to sit.

4. They are hardy. They will stand cold weather better than most breeds, their combs and wattles being protected by crest and beard. The chicks are strong and therefore healthy.

5. The Houdans, like a number of very useful and profitable breeds, have been sent to the rear by the commercialists who are now in full control of the American Poultry Association. Please bear in mind I have no Houdans for sale.

If you buy a \$100 bond of the Fourth Liberty Loan you are lending the United States Government enough money to feed a soldier in France a little more than seven months. Or you have furnished enough money to give him a complete outfit of winter and summer clothing, including shoes and stockings, and slicker and overcoat and blankets, with enough left over to arm him with a good revolver. You have done that much to beat back the Hun.

It takes \$35 more to arm him with a rifle with a bayonet on it, and if you buy a second \$100 bond you furnish him this rifle and 1,000 cartridges for it; and there will still be enough of your money left to purchase a good-sized bomb to throw in a dugout, or demolish a machine gun together with the Huns operating it.

LOOK! Baby Chicks, \$11 per 100 up

By PARCEL POST, 97% Live Delivery Guaranteed



Catalog free.

September chicks make March layers and best broilers.	Per 100
Odds and ends.....	\$11.00
S. C. White and S. C. Brown Leghorns.....	12.50
Barred and White Rocks, R. C. and S. C., R. I. Reds, Black Minorcas, Buff Orpingtons, White Wyandottes.....	14.50
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Tom Barron Strain, yearling pullets S. C. White Leghorns. No hen less than 220 eggs. 1000 for sale. Price right.	

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FOR FALL AND WINTER SHOWS

The cockerels and pullets are up to standard weight, with green sheen and white hackles—the result of years of careful breeding. This stock is all from Silver King and my other great sires.



FOR FIVE SUCCESSIVE YEARS MY

SILVER CAMPINES

have won the Sweepstakes Championship at the Chicago Coliseum.

FRANK E. HERING

Desk B

SOUTH BEND, INDIANA

Readers Open Forum

Buy Now.

IF YOU contemplate buying breeding stock for next season, now is the time to do it. A great many people seem to think it economical to put off buying the next season's breeders as long as possible, probably figuring that there is a material saving in avoiding the cost of feeding the birds between fall and breeding time. Moreover, they have the use of their money until that time. There is also a lessening, in risk in avoiding the possibility of loss by death or disease during the winter. These facts notwithstanding, the best time to buy breeding stock is now. The results are bound to be better where the breeding birds have been housed comfortably thru the winter in their breeding pens. Eggs from such birds are much more likely to hatch and the offspring will invariably be more rugged and healthy. Usually some of the best values are obtainable in the fall offerings of breeders.

I have bought breeding birds in both spring and fall since I became interested in poultry culture a few years ago and my advice to the beginner is, buy in the fall all birds required for your breeding pens for the following season. Breeding birds should be in their new quarters long enough to feel thoroughly acclimated and at home before the actual breeding season begins.

R. L. Long,
Michigan.

The Best Chicken Year.

It is always interesting to read the communications from different sections of the country in American Poultry Journal. In our part of the country there is very little poultry left and few chickens have been hatched this past season. However, this has been the best chicken year that I have ever known—that is, the best season to raise chickens, and I have fed the poorest feed because I could get nothing better. I sold off some of my hens in Boston for 35 cents a pound and broilers for 38 cents. Grain prices here are as follows: Bran, \$2.90; middlings, \$3; mixed feed, \$3.10; stock feed, \$3.40; meat scrap, \$5; oats, \$2.60; corn, \$3.50—and too poor to use at that.

I am wondering if the War Emergency Association will be bulldozed by some of the other associations and their wire-pulling politicians. I am afraid some of them are so firmly dug in at Washington that it will be difficult to dislodge them for a time at least. It looks as tho the packers own a good many wire-pullers, and are hiring others to do their barking for them. I think that when the utility man's throat is cut the fancier will have to quit business, as well as the feed dealer, the incubator man and the poultry press. I can't see how they can get along without one another very well and it is time for each and every one of them to take note of the fact.



The Leading Pen

(all varieties competing)

Second Best Individual Record

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five months in succession

148 Eggs in the Lead

over other Leghorns entered

THAT is the enviable and SUPERIOR record "HILLVIEW" Leghorns have made to date in the Missouri Laying Contest now running.

HILLVIEW WHITE LEGHORNS

ARE HELPING UNCLE SAM

The UNEQUALED RECORDS of our Leghorns, both in AMERICA'S GREATEST SHOWS and in the NATIONAL LAYING COMPETITIONS put "HILLVIEW" Leghorns in a class ENTIRELY BY THEMSELVES—FACTS ARE ALWAYS FACTS—when we say we have the world's most beautiful and leading laying strain of White Leghorns, we back up this statement with *actual performances!!* This is not a mere "lip message" to get you to buy; to get you to invest your hard cash in just ordinary Leghorns. Our arguments have a base, a REAL ROOT. Really careful breeding, strict attention to every single detail in mating, hatching, rearing and feeding. It has taken REAL HARD WORK to produce the HILLVIEW "STANDARD BRED" LEGHORN OF RIBBON-WINNING qualities and EGG-LAYING habits.

IN THIS WAR TIME you can't afford to buy anything but the very best! "Hillview" Leghorns ARE THE BEST.

HILLVIEW FARM is running full capacity, producing Single Comb White Leghorns of the Highest Possible Quality to the very limit of its equipment capacity. Thousands of birds are now ready to be placed in your hands so that you too can help and add to the much needed poultry products of the country; so that you too can "do your bit" to HELP WIN THE WAR.

We are prepared to furnish you BLUE-RIBBON WINNERS for any show in the country at the most reasonable prices—great big youngsters with long concave backs, neat five-point combs, well up on deep yellow legs, long hocks and pure white plumage; BIRDS that will WIN THE BLUE! Birds that will SHELL OUT EGGS and MAKE YOU A HANDSOME PROFIT on your investment.

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MAKE your hens lay and pay. Badger Poultry Feeds will do it. They will solve your problems of correct feeding, save waste and make results a certainty because they are prepared and balanced with scientific accuracy.

No guesswork in the making of Badger Poultry Feeds. They contain in the right proportions the feed stuffs that are necessary for egg-making, body-building and keeping your stock in tip-top condition.

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Keep your hens working and thriving, make poultry raising a bigger, better business proposition by using Badger Poultry Feeds. Ask your dealer today for Conservation Scratch, Krause Mash, Conservation Chick and Developer Feeds and other feeds in the Badger line. If he cannot supply you immediately, give us his name and we will see that you get any Badger feed you wish without delay.

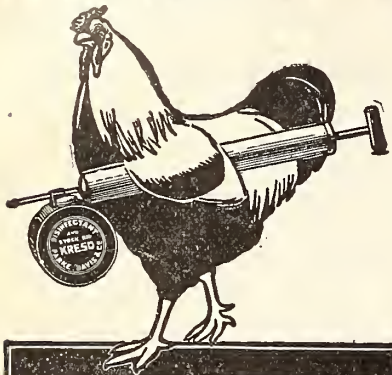
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Manufacturers of the Badger Line of
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POULTRY
MUST HELP
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KRESO DIP No. 1

A SANITARY NECESSITY
IN RAISING

HEALTHY POULTRY

KILLS LICE AND MITES.
WILL HELP STOP LOSS FROM DISEASE.

**One Gallon
Makes 72 Gallons**

of Solution ready for use.

EQUALLY GOOD FOR ALL LIVE STOCK.

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Indoor Closet**

The original
chemical closet. More
comfortable, healthful, conven-
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toilets, where germs breed. Be
ready for the long, cold winter.
Have a warm, sanitary, comfort-
able, odorless toilet right in the
house anywhere you want it. Don't
go out in the cold. A boon to
invalids.

GUARANTEED ODORLESS

The germs are killed by a
chemical in water in the
container. Empty once a
month as easy as ashes.
Closet guaranteed. Thirty
days' trial. Ask for catalog
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Ask about Ro-San Washstand—
Hot and Cold Running Water
Without Plumbing.



Increase the Egg Yield

Because the Ideal Sanitary Fountain
keeps water at the right temperature
in zero or the hottest
weather, it conserves the
health of the hens
and greatly increases
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The Ideal is made of gal-
vanized iron and built to
last a lifetime. See your
dealer. Write us for
complete information.
Rockford Poultry Supply Co.
Lock Box 3, J. 201
Rockford, Illinois



I do not see how western farmers can afford to feed grain to poultry any more than we can here in the East, except at a loss, under present conditions, for he must lose on his grain if he feeds it to hens. However, I am not ready to give up, and shall keep about 40 hens and pullets the coming winter, hoping that things will change, when I will stock up again, but it is money out of pocket now to feed poultry, since the price of eggs and poultry meat has in no way kept pace with the cost of producing same. It is singular how ignorant the general public is in regard to the value of eggs as food. It has not begun to understand yet that an egg at 5 cents is cheaper than a lamb chop at 15 to 20 cents.

Keep up the fight for better poultry and a living for raising it. Edwin C. Smith, Maine.

Geese on Poultry Land.

I was interested in a recent article in your magazine relative to raising more geese on farms. I believe this is one way in which we can greatly increase the amount of poultry grown on farms. Wherever there is good pasture land, there should be a flock of geese. Geese live almost wholly on pasture during the months the grass stays green. They attain a goodly size the first season and there is no better eating than young roast goose. I believe that those with meadows and pasture land could very materially increase the food supply by rearing a flock of geese at small expense and without great effort. I trust that A. P. J. will give us more articles on goose culture in coming issues. H. D. Johnston, Pennsylvania.

Poultry Feeds.

It has been my practice for some time, and I have not seen the disadvantage of it yet, to use commercially prepared feeds. I use a grain scratch feed, morning and night, in a good litter of wheat straw, and give an equal amount of dry mash at noon in a "no waste" hopper. I prefer, and most heartily endorse, grass runs for summer, and sprouted oats for winter, but advise feeding sprouted oats at from one to two inches long, as the oat itself will not become musty and will do the birds good. To hold oats until the sprouts are three or four inches long, the oat itself becomes musty and frequently decayed, and thus unfit for the birds to eat.

The feeding of young stock is the most important task in the work of producing a productive flock of birds, for therein lies the seed and unless it is properly cared for, good results cannot be obtained. It is my plan to start chicks and continue for about three weeks on buttermilk chick food and I have thus reduced to a minimum the chance of disease. The chicks need a good grass range and all the wholesome grains they will eat right thru the entire growing period. If hatched sufficiently early, they will then be ready for the laying pens in early fall and reward their owner by laying well thruout the winter. J. E. Mattingly, Indiana.

Going to the Fair?

This is a busy year for men, women and children. Everywhere I go, I see people working early and late. This is especially true in all agricultural districts. People are striving against great odds to harvest crops, as they never did before in their lives. I have seen women, whose sons are battling in France, toiling early and late in the fields at home in an almost superhuman effort to help keep the food supply up to normal. It is no easy task with the strong, capable helpers gone, and no others to take their places on the farm, for the farming operations to be kept up to normal. Only by the never-failing, unmatched courage and helpfulness of the farmers' wives and the young children has the work gone on. There was a time, not so very long ago, when farmers were denounced for allowing their wives to work in the fields, but today these same wives should be acclaimed the best and most true-hearted of women. This has been a long, wearisome season for many farm people—harder labor, longer hours, a poorer crop season than we have known for years; but the fall fair season and the time of winter poultry shows is at hand, so forgetting all the trials we have

LICECIL

The Poultry Lice Exterminator
Merely hang a bottle near the roosts. The gas kills the lice and mites—no injury to the birds. Price—delivered—One bottle, 75c.; Three bottles, \$2. Order today. Address nearest office. Circular free.

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Germantown, Phila., Penna. Quincy, Illinois



**200 to 288
Egg Line
Cockerels
and Hens**

150 S. C. White Leghorn cockerels, 236 to 288 egg lines. May 1st hatch, from large eggs, \$2.50 each; pullets \$3.00 each.

200 Rose and S. C. Brown Leghorn cockerels, \$2.50, \$3.50 and \$5.00 each; all of 200 to 266 egg lines. Large egg strain. Hens \$3.00 each.

Rose Comb Brown Leghorn cockerels of 254 egg hens, \$8.00 each.

Barred Rocks—270 egg line.

S. C. Reds.

Catalog

W. W. KULP

Box 70

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Aid Winter Egg Yield

Make more profit from your chickens, and with less trouble, with an

OK Sanitary Non-freezable CHICKEN WATERER

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Free Trial Offer

Write for full particulars. We make a full line of guaranteed goods, feeders, stock waterers, cippolas, etc. Catalog sent upon request.



Phillip Bernard Co.;
2501 Floyd Ave. Sioux City, Iowa

**Get High-Priced
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COLLINS' OAT SPROUTER

doubles egg yield, cuts feed bill, makes hens healthy. No dirt, no trouble; set beside stove, furnace or in sunny window.

Popular Size, 8 pans - - 11 x 15 in., \$4
Backyard Flock, 5 pans - 11 x 15 in., \$3
Big Business, 8 pans - - 11 x 32 in., \$7

Deliver. West of Miss. add 50c. West of Rockies add \$1

EXERCISER and FEEDER

saves your feed and time; keeps hens active. Bird and ratproof. Simply cut hole in worm-out pan, can, box or bag, and attach. Only 50c. ordered with Sprouter. Alone, add 10c. for P. P.

Egg Testers—Oil, 35c; Electric, 45c
GUARANTEE—Order Sprouter, Feeder and Tester now. Use 10 days. If not the grandest things you've used, return. I'll refund your money.

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PEARL GRIT the "Double Purpose Grit" keeps hens healthy and makes them lay. It grinds and prepares the food for digestion and supplies the necessary shell-making and egg-building elements. Write for free booklet. **THE OHIO MARBLE CO.** 74 Cleveland St. Fiqub, Ohio



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had, let us take the time off and attend the fair or show. Look over the stock and see what there is that is good and send it in to compete with the Smith and the Brown stock. Take time to select the best and groom it well; and if the children have any pet stock worth showing, see that it is properly entered in the young owner's name. If the whole family cannot attend on the same day, arrange matters so a part can go on one day and the rest on another. But see to it that your wife has her pick of days or, better, see that she goes more than one day.

It will do you all a lot of good to go to the fair or show. You will meet old-time friends and renew acquaintances. You will be able to view, side by side, the products of the workers of the community at large, as well as all the latest appliances for use in your work. You will gain inspiration for the coming year's work, and you will go home tired and weary and a bit distracted by the noise and confusion, but with something to enjoy for a long time to come from having gone to the fair or show.

T. F. Rolfe.

Illinois.

Winter Eggs.

Everyone who feeds a flock of hens or pullets wants them to lay during the winter months. If they commence in October or November and keep it up right straight thru, so much the better. There is not much encouragement in feeding poultry at present grain prices if they fail to lay. Now, I have had many different breeds of poultry and tried various experiments in feeding, housing, etc., but I have reached the conclusion that there is no royal road to winter egg getting. It is simply a question of having the pullets hatched early enough to admit of early laying; that is, by the beginning of winter, and then to give them all the food they want to eat. I am not very particular about houses, so long as a window, door or entire front is left open all the time.

The chief reason hens and pullets do not lay is that they do not get enough to eat to keep them in health and supply them with enough surplus material to make eggs. Heavy feeding is absolutely essential to good egg production. The birds must be supplied with food regularly. It does not work out to advantage to feed heavy today and forget to feed tomorrow. I have known laying to cease without apparent cause when a pen of birds was being hopper-fed. On investigation the hopper was found to be totally empty, the owner having filled it the week previous and expected the contents to last two weeks, but the fowls had eaten all they wanted the first week and all but starved the second. To get eggs, we must feed heavily of grains, no matter how high in price grain may go. It is an inexcusable waste of good material to feed only half enough to a flock of hens. Double the quantity if necessary; at least, be sure you are feeding enough to insure egg production.

Kansas. Milton T. Jones.

War Rations for Poultry Fattening.

On account of the scarcity of wheat middlings, many poultry raisers are finding that it will be necessary to use substitutes in their crate-fattening rations. If ground oats and barley meal are available, a very satisfactory ration may be made of 55 pounds of cornmeal, 20 pounds of ground oats, 20 pounds of barley meal and 5 pounds of fine meat scrap. Heavy feeding of cornmeal gives a yellow fat and skin, while if oatmeal and barley meal

make up a large part of the ration the fat and skin will be lighter in color.

Either of the mashings mentioned is intended to be fed with milk, either skim milk or butter-milk, using 1½ to 2 pounds of milk to each pound of mash. If milk is not available, add 10 pounds of fine meat scrap and mix the mash with water.

The mash mixed ready for feeding should have the consistency of a good buckwheat cake

batter. It is not necessary to mix the mash fresh more than once a day, as a slight fermentation makes it more palatable and more digestible.

The chickens to be fattened should be given nothing to eat or drink for at least 12 hours after they are placed in the crate. This permits the digestive tract to become empty and in better condition to receive the concentrated fattening mash.

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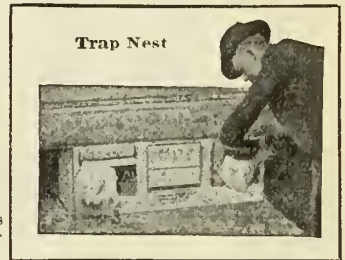
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You see that little lantern in the cut on the left side; it does the trick; it **Makes**

Hens Lay. 300 candle power; it makes day out of night. You surely must have read how, by extending the light in the laying house in fall and winter, fowl **Lay More.** Proven fact; system used most everywhere on the Pacific Coast; now being used in the East by poultrymen and state experiment stations. I use this lantern and you will too. Be a live one, up and doing. Eggs will be 75c a dozen soon; you will want to increase output. This simple, powerful 300 candle power light will make them lay more.



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More than 2400 "Aristocrat" Barred Rocks are now growing up into superb, magnificent show-birds. The "Aristocrats" are those glorious Plymouth Rocks which are making such a

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thruout all America—from the Grand Palace show, N. Y., to San Francisco; from the foremost shows of Canada down into South America—winning out at such great shows as the annual **National Barred Rock Show** (the greatest of the great), **Chicago, N. Y. Palace, Guelph, New Orleans, the "Tri-State,"** the **"World's Fair,"** **Cleveland, Texas State,** and many, many hundreds of other shows. This is probably the most victorious campaign ever made by any strain of chickens. (Can furnish show-birds in all classes for any show—remember this.)

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Questions and Answers

Conducted by
Prince T. Woods, M. D.

Questions about poultry are answered in this department free for all readers of American Poultry Journal. Where answers are desired by mail, a stamp for reply is requested. Address all query letters to the managing editor, Dr. Prince T. Woods, Lock Box 4, Silver Lake, Mass.

Pigeons for War Purposes.

Q. Would like information concerning carrier or homer pigeons used as messengers on the battlefields. Can you furnish names of breeders of such pigeons? Is there a market for the young stock? Are they of any value for other purposes besides carrying messages? Would like to try a few as a fancy or hobby.
Denver, Colo. A. C. L.

A. You will usually find advertisements of homer pigeons, both for sale and wanted, in our classified ad department. Consult this and the last few issues. For information as to need of homer pigeons for war purposes apply to commander of nearest military post or the War Department at Washington, D. C. Homers make excellent squabs for table purposes.

White Rock-R. I. Red Cross.

Q. Please tell me what kind of chickens I have. I mated four S. C. Rhode Island Reds with a White Plymouth Rock cockerel. I now have fifteen chicks and they are white and black speckled, with a dash of reddish brown. Some tell me they are only just chickens, but to me they are a fine-looking flocks of birds. The Reds I mated are fine layers. Do you think these pullets will be good layers?
Danbury, Conn. C. E. M.

A. Your chickens are White Plymouth Rock-Rhode Island Red crossbreds. This cross commonly gives a color similar to Columbians, but if you breed them you will only get mongrels. The pullets should prove good layers. Force them for eggs and then eat or can them. Better mate those Rhode Island Red hens with a good R. I. Red male the coming season.

Disposing of Cockerels.

Q. I have a few Barred Rock cockerels of good stock and would appreciate your advice on what points to consider in selecting those I keep. I have a 1910 Standard, but know it is out of date. Feed is so high it might be better to kill them and purchase a male when I need one. Chicken men here say that it is costing 30 cents per head per month to feed fowls. I read all your and Mrs. Woods' articles in A. P. J. and always enjoy them. Conditions you mention in relation to feed are much the same here.
Mrs. W. F. T. Lowell, Ariz.

A. We would not keep more cockerels than you expect to have use for. You should be able to sell some to neighbors for breeding

purposes. For your use in selecting males to keep, the Standard you have will serve very well. Choose those specimens which come nearest to filling the requirements, but above all else, select strong, vigorous, healthy specimens that have matured well. We are culling many of our surplus chickens this season. Our book department will be very glad to sell you a copy of the latest edition of the Stanard. We are much interested in your report of Arizona conditions.

Leg Joints Swollen.

Q. What is the matter with my chickens? I am feeding them a good scratch feed and mash, plenty of green feed, grit and charcoal. They seem all right when I feed them in the morning. By night I find a few limping and the next day they can hardly stand. Some of them have the first joint of one leg swollen. They eat, but finally die in about four days. I have treated them for almost everything, but can find no cure.
Cincinnati, O. C. A.

A. There is probably something wrong with the beef scrap or some other ingredient of the mash you are using. Better discontinue the mash. Feed largely on sound hard grains and greens. See that the sleeping quarters are clean and dry. Do not crowd the chickens and do not shut them in too closely at night.

Spoiled Feed Probably.

Q. There is some sort of disease affecting our chickens. Have examined several and there does not seem to be anything wrong except that there is a sack of yellow membrane around the heart, about the size of heart. They seem all right and look all right, but just refuse to eat. Some drop over dead. They are in medium flesh and it seems to take more of our Speckled Sussex than the Orpingtons. Is there any cure?
Garden Grove, Ia. S. S.

A. Trouble is probably due to spoiled feed, tho some of the chickens may have been exposed to extreme temperature changes, or crowded in close coops at night. The feed which is available for poultry feeding this season is not all it should be; much of it is spoiled. There is not much that you can do except see that the flock is comfortably housed and fed on sound feed. Cull out any which show symptoms of weakness and market them before they begin to go to pieces.

Off-Color Feathers; Sex of Geese.

Q. I am a reader of A. P. J. and like it fine. Please tell me what is the matter with

HUNDREDS OF EARLY HATCHED

Aldrich White Orpingtons

Now Ready to Win in Any Competition

At Greatly Reduced Prices

To those who BOOK THEIR ORDERS DURING OCTOBER AND NOVEMBER we will give a special discount from our regular prices, for any birds for the coming season's shows. If you wish a WINNER FOR YOUR FALL OR WINTER SHOW you can not afford to pass this offer by, as it positively will not be good after December 1st, and those who book their orders early will be surprised at the reduction we offer, full particulars of which will be given upon application.

When placing your order for White Orpingtons remember the ALDRICH WHITE ORPINGTONS have been the largest winners in all of America's Best Shows for many years, having won FIRST COCKEREL at MADISON SQUARE GARDEN four years in succession; also we have furnished more winners than any other White Orpington breeder to customers during the last five years, and our strain is the only Exhibition Strain that has made high records in the National Laying Contests regularly since 1913. Send for our catalogue describing "The Great Winter Laver. Therefore the Best Payer."

ALDRICH POULTRY FARM, 5080 N. High St., Columbus, Ohio



my chickens—they have white feathers on neck and wings. Will these feathers fall when they get older. Please explain how to tell sex of geese. A. S.

Harmony, Minn.

A. You do not say what variety of chickens you have. In many varieties white feathers in young stock are molted and replaced with breed color when birds are mature.

The only sure way to tell sex in geese is to turn back the vent and look for the penis. If you find it you know that you have a male bird. This is method employed by veterans in the goose business. All the other indications may fail even the most experienced.

Wants to Buy a Farm.

Q. I have a chance to buy a 25-acre farm, 24 acres tillable and rest woodland. It is 9 miles from Wilkes-Barre, Pa., which is an ideal market. It has four large poultry houses, a small house of seven rooms and other small outbuildings. Creck right thru land. Can I make a success on this farm with fruit, a few acres of truck, and raising part of feed for stock? Could I raise enough feed for my poultry, one cow and two horses? Would you advise me to hire my plowing done instead of keeping two horses? How many chickens would you advise me to start with? I like Barred Rocks and White Leghorns. Would this be a good choice? Also Pekin or Runner ducks? How many hens can be housed comfortably in a 12x20 open-front house? Wilkes-Barre, Pa. J. S.

A. Apparently you have had little or no agricultural experience. Under present conditions it is quite a stunt for an experienced farmer to get a good living for himself and family on a small farm. Whether or not you would make a success of it depends very largely upon how capable you are and on your having sufficient means to support yourself and the farm until you can make it "break even" with operating and living expenses. It will also depend quite a good deal upon the farm, tho there is much very excellent farming land in that section. If you intend to go into poultry extensively—and we should advise against it at this time—you will have to get your grains and feeds very largely of others, tho you can grow part of what is needed. The farm ought to grow feed to support the cow and horses. You will need one horse anyway. Whether or not it is cheaper to hire plowing and harrowing will depend on how much land you cultivate, what farm machinery you own, and upon local conditions. Keeping horses is costly, but so is man and horse labor. With a pair of good horses, you could probably get plenty of work outside your own farm to help you along with your venture. But if you have been doing office work, or factory work in a town, don't imagine that you can go out on a farm, do a full day's work and keep at it. The average town man may work pretty well on the farm for a day or two, but he quickly gets used up, and, as a rule, he lasts longer if he does not attempt to do more than half a day's work at the start. Taking chores and regular work combined, the average work day on the farm is from 14 to 16 hours long.

We would recommend starting with a small family flock of fowls, say 30 head, and keeping only one breed. Either of the breeds you favor is good. Pekin ducks would probably give you best returns for market purposes, tho the Runners are excellent layers. The house will accommodate from 50 to 60 fowls.

Arsenite of Antimony.

Q. Where can I get the one-thousandth of a grain tablets of arsenite of antimony recommended for rattling in throat in fowls? How should it be given? J. C. B. Cleveland, Ohio.

A. Try Boericke & Tafel, homeopathic pharmacutists, Cincinnati, O. Firm also has stores in many large cities. Give one tablet to affected bird three times daily. For flock treatment, dissolve 10 tablets in a pint of drinking water and allow no other drink.

Feeding Questions.

Q. I have 100 yearling hens and 100 pullets, all Orpingtons. Would like to know how to feed them for eggs this winter, using the feed we have. We have corn, oats and rye for scratch grain. Can get bran and beef meal. Would you grind the grains named for mash? How would you feed the scratch grain and how mix and feed the mash? Will have from two to three gallons of skim-milk a day. For green feed, will sprout oats and have some potatoes. Mrs. C. M. H. Clinton, Ill.

A. Mix your scratch grain: 60 pounds corn, 30 pounds oats and 10 pounds rye. You can feed the scratch mixture in litter either by hand or with automatic feeders. If the feeders are used you will need one 8-quart feeder for each 25 hens, so that all can use

"Golden Rod" Buff Orpingtons

are bred for heavy egg production and exhibition qualities, and their 20 years of winning at the NATIONAL SHOWS AND EGG-LAYING CONTEST proves that they are BRED RIGHT. If you have never raised poultry you owe it to yourself, and country, to do so now. If you are just beginning, you naturally want the best; if you are an old breeder, these old linebred trapped "GOLDEN RODS" will improve your flock. Remember, we are the oldest, biggest and BEST breeders in the U. S.

At the Illinois State Fair, 1918, we won 1st old pen; 1st young p n; 2nd hen; 2nd pullet; 3rd cock, and the medal for best display. Write your wants.

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Anticipate and relieve the food problem by providing at an introductory price, one or more of our exceptionally fine foundation pens—now producing Glorious Large White Eggs. They require but little yard room, inexpensive quarters and they make a most delicious table fowl.

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Win at the Wisconsin State Fair, September 9 to 14, 1918

In an outstanding class of high-class White Rocks, my birds won 5 firsts, 1 second, 3 thirds and 1 fifth on 12 entries, which again proves that White Quill White Rocks are right among the leaders.

Cock, 3-5; Hen, 1-3; Cockerel, 1-3; Pullet, 1-2-3; Pen, old, 1st; Pen, young, 1st.

I am ready to furnish you with anything in the line of show birds as well as high-class utility birds, and high record layers. Write your wants, please.

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are an ideal combination of beauty and utility. They lay eggs, and lots of 'em, and they take the ribbons, too.

For October Only: April hatched cockerels \$2.50 and up Exhibition cockerels and pullets \$5.00 and up April hatched pullets 2.50 and up One and two-year utility hens 3.00 each

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Show birds fit for any show. Better engage them early. M. S. BARKER, R. F. D. No. 1, Thorntown, Indiana

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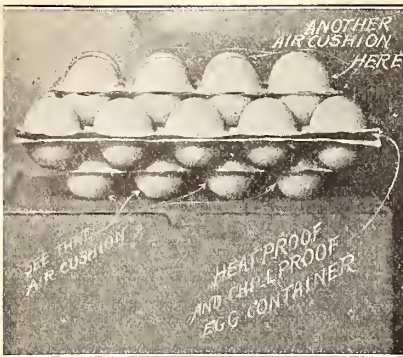
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that's the prize-winning record for value of eggs laid by our pen of 5 Leghorns at Leavenworth in the severest winter known. Our champion pullet No. 1104 laid 28 eggs in coldest January in 98 years; our pen of five Leghorns laid 105 eggs same month. *Merely another proof* that our perfected *Egg-Laying 200-Fog Strain* lays in every competition. **OTHER RECORDS:** 294 eggs in 359 days laid in last N. A. Egg Contest by our World's Champion Wyandotte, *beating all entries of all breeds.* First Prize Leghorns N. A. Contest, 5 hens laid 1139 eggs; Reds 1st prize, 5 hens laid 1043 eggs; Wyandottes, Missouri Egg-Laying Contest, 10 hens laid 2006 eggs. *Most profitable poultry known—cockerels, pullets and hens from champion pens.* Write today for book, *Story of the 200-Fog Hen*. Price, 10c, refunded on first order. PENNSYLVANIA POULTRY FARM, Box A, LANCASTER, PA.



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them conveniently. You may need to vary your grain mixture from time to time according to appetite, giving the birds most of the grain which they show preference for. To feed 200 layers will require approximately 16 quarts of scratch grain per day. Feed a moist mash to use up the skim-milk. Grind corn and oats together, bushel for bushel, to make a provender for use in mash. Of this provender take 60 pounds and mix with 30 pounds bran and 10 pounds beef meal. Make ground feed into a crumbly mash with the skim-milk. Potatoes may be boiled and mixed with the mash. Give what they will eagerly clean up of sprouted oats daily. You will probably find it more convenient to feed the moist mash in afternoon. They will eat just about as much mash as hard grain. It is a good plan to scatter some grain in litter at time mash is fed, enough to permit fowls to go to bed with full crops and have a little grain left in litter to start them at work when they leave roosts first thing in morning. At morning watering time they should be fed scratch grain in litter to keep them busy thru the day. If automatic feeders are used, the fowls will work the feeders and scatter the grain, the labor of hand feeding is saved and it is only necessary to keep the scratch grain feeders filled, never permitting them to become empty.

Conjunctivitis.

O. We have Partridge Cochins and Brown Leghorns. Some are diseased and have large humps under the eye. The swelling is under left eye. Five birds are affected. Right side of head is all right. They are all laying and appear to be all right otherwise. What do you advise, A. M.
Glasnevin, Sask.

A. Trouble is conjunctivitis, probably due to extension of inflammation in mouth and throat. Examine mouths for canker. If canker is found, treat it by dusting on the canker patches the following powder: Finely powdered sugar of milk, 1 oz.; gum arabic powdered, 1 teaspoonful; finely powdered permanganate of potash, 1 grain. Mix. Powder will turn purple when it touches wet canker patch. Two or three treatments should be sufficient. Do not attempt treatment of the eye. In a short time you will find that light pressure of thumb or finger below the swelling will force out a yellow, cheesy mass from eye and the face will return to normal.

High Mortality in Chicks.

O. Can you tell me what causes the death of my baby chicks? I use a good incubator. I have strong, vigorous breeders, which are free range stock. They are fed well with grain and a good dry mash recommended by Iowa State Agricultural College. Hens and cock were never sick. Breeders are high-class S. C. White Leghorns. Eggs were well cared for and gathered twice a day, and turned daily while holding, averaging from about 6 to 8 days old before setting. Incubators maintained good even temperature. Eggs turned and cooled twice a day. Four different incubators full have only hatched from 40 to 75 percent, and of first hatch about one-half died; second, all died; third, all but one died, and fourth, are dying. All died the same way.

Weather conditions fine for first and fourth, but very damp for second and third. Seemed strong at first and for first few days eat well. From the third day until they are dead they begin to droop, down becomes roughed up. No signs of bowel trouble at first, only after they begin to droop. They keep getting weaker until they just settle to the ground and make no struggle at all—just seem to sleep and pass away in several hours' time. These chickens were fed buttermilk at first, with fine sand and a commercial milk mash, also a very fine grain feed made from Indian corn, kafir corn and a little charcoal and millet.

Will chickens eat gravel too large for them to handle? I ask this because after dissecting a few I noticed that intestines in places seemed enlarged by some of the small gravel and sand which I had fed them. Liver seemed O. K. Plenty of grit in gizzard. Feed seemed to be well digested as it was passing thru the intestines. None at all in crop or gizzard owing to fact that they had not eaten for a day or two. These chickens show no sign of disease, only weakness and death. Others thruout this section report low percentages in hatches and high mortality. My own eggs sold to others gave a normal hatch, while eggs bought of others made an undesirable record for me and hatched reasonably well for others. Ottumwa, Iowa. C. J. M.

A. Would advise you to consult with the poultry husbandman at the State Agricultural College. We do not believe that your chicks were affected with so-called white diarrhoea, for if such had been the case others who had eggs of yours would have reported trouble. We do not like your method of feeding baby chicks. The trouble looks very much like acute indi-

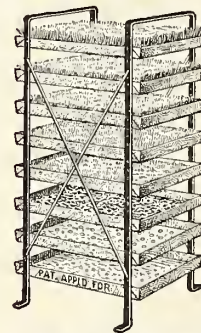
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- 8 pans 11x15 in., \$3.75
- 5 " 11x15 in., 3.00
- 8 " 11x33 in., 7.50
- 5 " 11x33 in., 5.50

Order direct from this ad and have it ready when you need it, or get our circular.

Agents and dealers wanted

H. A. Stevens & Co.
Box 355 Aurora, Ill.

"SUNLIGHT" POULTRY FARM S.C.W. LEGHORNS

250 Cockerels
S. C. Wh. Leghorns
3 to 5 months old \$1.25 and up.
TRIOS AND PENS
Catalog free
SUNLIGHT POULTRY FARM
Box A LYNCHBURG, OHIO

Hummel's
27th ANNUAL CATALOG FREE
35 Varieties 35
of Fancy Poultry
S. A. HUMMEL
Box 52 Freeport, Ill.

THE NORWICH AUTOMATIC FEEDER CO.
Manufacturers
Automatic Poultry Appliances
Box 21, NEW LONDON, CONN.

Tycos INCUBATOR THERMOMETERS
90c mean extra chicks hatched—every time. Demand a Tycos with the incubator you buy. Equip your present machines with Tycos at your dealers or Tested and guaranteed. Booklet, "In postpaid from us incubator Thermometer Facts"—free.
Taylor Instrument Companies 100 Ames St. Rochester, N.Y.

gestion. Of course, faulty incubation may account for your poor hatches, but it does not fully account for the wholesale losses of baby chicks. We do not approve of your first feed, nor of feeding sand and gravel in a soft feed where chicks are forced to eat it. The chicks will eat sand and gravel enough without being forced. It is well known that your state had much soft corn last season and it is possible that spoiled corn is partly the cause of your trouble. Only sound, well-cured corn should be used in making chick feeds, and preferably it should be old corn.

We suggest that before you start another hatch you read over your incubator instructions carefully and make sure that you are operating strictly according to manufacturer's directions. When your next batch of chicks is hatched, do not feed them for 60 to 72 hours after hatching. For first feed give them dry cracker crumbs rubbed up with hard boiled egg and a little rolled oats. For first week stick to this egg and cracker feed combined with feedings of good, sweet, sound chick feed. Get a copy of "How to Raise Chicks" and read it carefully. This book, cloth bound, may be had of our book department at 75 cents a copy, postpaid. The size of things a chicken may swallow is limited only by the ability of the chick to stretch its mouth and throat over the object and force it down.

Cock or Cockerel—Which?

Q. I have some young pullets and cockerels. I am going to keep ten pullets this winter. I want to know whether it would be better to keep one of the cockerels to breed from or to keep the cock bird I bred them from. The cock was not related to the hens. He is strong and vigorous. I do not care about the prize bird part of it, but I want to keep the mating that will bring strongest chicks. I am going to sell the hens and want to know if it would be best or not to breed the father to his pullets. F. J.

Kanawha, Iowa.
A. Keep the cock bird and mate him to his pullets.

Moldy Sprouted Oats.

Q. Kindly advise what chemicals may be used to keep sprouted oats from getting moldy. The sprouting trays are always kept

in the cellar and I have had no trouble from this source until up to a month ago. H. K. Ilchester, Md.

A. If oats are fed when sprouts are about 1 inch to 1½ inches long, there will be very little molding. Wash trays frequently in strong soapsuds and dry in sun. Also wash and rinse oats before sprouting. Submerging the oats in a weak solution of formaldehyde for ten minutes is a preventive. Use four fluid ounces of formaldehyde to 9 gallons of water. This quantity is sufficient to treat 10 bushels of oats. Solution should also be used for cleansing trays when empty.

Cut-Clover.

Q. Where can I get cut-clover for poultry feeding? Do you consider it essential for a back-lot flock? I intend to breed my fowls in spring. E. F. Cleveland, Ohio.

A. Your feed dealer or poultry supply house should be able to furnish you with cut-clover. You will find cut-clover advertised in A. P. J. We consider it an essential for both layers and breeders; believe that it is a help to better fertility, better hatchability and better chicks.

Forcing Molt.

Q. I have a flock of Black Minorcas. They are a little over a year old now and have proved great layers. They are very slow in beginning to molt and I believe that they will not be thru when cold weather sets in. How could I hasten them along a little? Detroit, Mich. P. E. J.

A. Would not attempt forcing the molt. Your letter was written the latter part of August and we think you are just a little too much in a hurry. It is not a good plan to force molt of birds intended for breeding. Feed your Minorcas well, give them plenty of cabbage and other greens, as well as the scratch grain and dry mash. They will probably molt all right in good season.

Difficulty in Determining Sex.

Q. I am a beginner and have 200 White Wyandottes, at this date 4 months old. I have no way of telling the cockerels from the pullets. None of the birds crow. How can I determine the sexes? S. R. Bergenfield, N. J.

A. By the time this is published you have probably learned to distinguish between the sexes. The headgear of the cockerels is redder and coarser. Also, if you examine the saddles you will find pointed saddle feathers developing on the cockerels.

Dark Combs and Diarrhoea.

Q. I have 200 Leghorns which layed very well all last winter. This summer they all have diarrhoea, no appetite and quite a number have dark purple combs. I have been giving them sunflowers every day, leaves and the whole business. Would this cause bowel trouble? I feed scratch grain in morning. Dry mash before them all the time. About 10 a. m. give for green feed sunflowers, leaves and all. At noon I give oats in litter. Between 5 and 6 o'clock I gave them steamed alfalfa mixed with laying mash and beef scraps. They relished this very much. Do you think I fed them too heavily. Some of the birds are better since I gave them Epsom salts, but most of them are sick. E. R. Wellsville, N. Y.

A. You have been overfeeding on concentrated mash and overdoing the feeding of sunflowers. We would not feed sunflowers that way. Better cure the seed and then use only a small amount of it in the scratch grain. The combination of rich, unripened sunflower seed and heavy feeding on moist mash, with dry mash always before them, is altogether too much of a good thing. The birds are probably overfat internally and have enlarged livers. It is doubtful if they are fit for anything, altho those not really sick may be marketable.

Biddy's Friend Hatcher and Brooder Coop

Don't run the risk of losing valuable hatches either thru rats or other reasons by using improper coops. Different from any other coop. First used for hatching and then as a brood coop.

Secure the Agency

and have a profitable income on the side. Send today for circular containing further information.

A. J. VAN ACKEREN, CEDAR RAPIDS, NEB.

ROBADEL POULTRY FARM

MAKES RECORD WIN

ON

SINGLE COMB WHITE ORPINGTONS

AT

NEW YORK STATE FAIR, SYRACUSE, N. Y., SEPTEMBER 9 to 14, 1918

- Cocks - - 1st, 2nd, 3rd, 4th and 5th prize
- Hens - - 1st, 2nd, 3rd, 4th and 5th prize
- Cockerels - 1st, 2nd, 4th and 5th prize
- Pullets - - 1st, 2nd, 3rd, 4th prize

Exhibition Pens:

- 1st prize—old pen
- 1st prize—young pen

And All Special Prizes

THIS PROVES THE CLAIMS we have been making and demonstrates conclusively that we have high-class birds in large numbers, particularly in view of the fact that our competition included guaranteed winners for this show which were supplied by other large breeders. All sales made by us, whether stock or hatching eggs, are positively guaranteed.

If interested, write us.

CHARLES HUBBARD

General Manager, formerly Foxhurst Farm, Lime Rock, Conn.

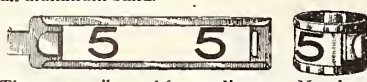
ROBADEL POULTRY FARM, Cos Cob, Conn.; A. C. ROBERTSON, Owner

BREEDERS OF

- Single Comb White Orpingtons
- Single Comb Black Minorcas
- Single Comb Buff Orpingtons
- Single Comb White Leghorns

BOURNE LEG BANDS

Are Easy to Use. They are made with large numbers printed on colored celluloid held in an aluminum band.



They are easily read from a distance. Numbers up to 300 are printed on white, red, green, cerise, blue, yellow and pink celluloid. From 301 to 1000 on white only. Band will withstand weather and water. Sizes for all breeds; also for pigeons.

BOURNE MFG. CO.
231 Howard St. MELROSE, MASS.

COLORED LEG BANDS

If you are hunting for the acme of excellence in colored bands, you need hunt no further than Spiller products. Extreme care in making and inspection is an assurance of satisfaction to you. Your natural desire to procure the best should prompt you to use only Spiller's bands.

They have all the distinctive features of quality

Our special Trap Nest Bands are made to stay on the job. Be sure to ask for samples and catalog before you buy. We make bands for all Poultry, Turkeys, Geese and Pigeons.

ARTHUR P. SPILLER
Box A BEVERLY, MASS.

POULTRY BANDS

Pigeon Bands—Nest Tags

All goods guaranteed to be just as represented.

ALUMINUM BANDS with raised figures, price postpaid, 10-15c, 25-25c, 50-35c, 100-60c.

SPIRAL CELLULOID BANDS, 10 different colors price postpaid, 12-15c, 20-25c, 50-45c, 100-75c

COLORED CELLULOID, with Aluminum back. Any color, two large black numbers in each band; price 12-30c, 25-50c, 50-90c, 100-\$1.65.

Please do not send postage stamps

The National Poultry Band Co.
Send for Catalog. NEWPORT, KY.

Ideal Aluminum LEG BANDS

for POULTRY and PIGEONS are the acknowledged leader. Firmest and most secure lock. **GUARANTEED** to stay on. Price, 12 for 15c; 25-25c; 50-35c; 100-65c; 250-\$1.50; 500-\$2.75; 1000 \$5.25, postpaid. Price list and samples, 3 cents.

COLORED KEYRING LEG BANDS
12 for 15c; 25-25c; 50-50c; 100-85c; 250-\$2.00; 500-\$3.50 postpaid.

Frank Myers Box 42 **Freeport, Ill.**

The "Best Yet" Aluminum Leg Band

cannot come off. Five sizes, pigeon to turkey. State breed, 12, 15c; 25, 25c; 50, 40c; 100, 75c. **Celluloid Leg Bands**—Red, Green, Amber, Pink, Black, White, Yellow, Light Blue, Dark Blue, Pigeon and Baby Chick sizes—12, 10c; 25, 20c; 50, 35c; 100, 50c. **Poultry sizes**, 12, 15c; 25, 30c; 50, 50c; 100, 80c. Circular free.

Aluminum Marker Works, Dept. J, Beaver Falls, Pa.

CHAMPION LEG BAND

Aluminum, numbered to suit, with large raised figures. Postpaid 100-60c, 50-35c, 25-20c, 12-15c. Initials extra, 10c per letter per 100; 50 or less 5c. More than one initial with cut figures. Circular free, giving price on Superior and Pigeon Bands and Rabbit Ear Markers. Sample for stamp.

T. CADWALLADER Box 802 **Salem, Ohio**

Golden Wyandottes

Winners at New York, Chicago and San Francisco. Young and old stock for exhibition. Prices reasonable.

J. S. PENNINGTON, Box A, PLAINFIELD, ILLINOIS

THE USE OF LEG BANDS.

By P. T. W.

OLD-TIMER, this is not for you, but for the beginner, so pass on, please. There are many beginners in poultry culture this season, which is a good thing for the industry, and a surprisingly large number of them have written to us to know what leg bands are used for. Most of us are too apt to forget that things which seem as plain as A-B-C are Greek to the beginner.

Leg bands are made of celluloid and of metal, the latter chiefly of aluminum or of brass wire with aluminum tags. Celluloid bands are made in nine colors, and celluloid, in colors and numbered, is used in making special combination metal and celluloid bands. The colors, numbers and letters are for convenience in keeping identification records. The bands are made in suitable sizes for all breeds and for fowls and chickens of all ages, as well as pigeons. Some special bands are made with lead seals and are sealed with pliers, sometimes a special tool carrying the poultryman's own special seal or letter.

The bands are usually put on the bird's leg like an anklet, but in some special pedigree work a small metal band is attached to the web of the wing of the growing chick and remains in that position, covered by feathers, thruout the life of the fowl.

Of course, the primary use of the leg band is for purposes of identification of the specimen and for convenience in keeping a record of it by number. The plain spiral celluloid rings in colors are particularly useful for instant identification of birds when in runs or on range. They are commonly used to denote the year in which the bird was hatched. For example: blue might denote a 1915 chick; red, one hatched in 1916; white for 1917 and green for 1918 hatches. They are also often used to identify special matings and to avoid mixing such by accident or thru carelessness of the attendant. Thus all the birds in one mating might be marked with yellow bands, in another with black bands, and so on thru the nine colors which may be furnished. Bands may be had in metal with different colored celluloid and consecutive numbers as high as the breeder cares to go and with special letters if required. This provides for a wide range of identification marks in pedigree work where accurate records of the birds must be kept. Thru the use of colored and numbered bands individuals and families can be instantly identified if records of the numbers and colors are accurately kept. Plain metal bands are supplied with numbers as high as one needs to go.

Bands are necessary for identification of exhibition specimens sent to shows for competition and for this purpose sealed bands are much in favor, as they are not easily removed or changed as are spiral or spring bands or those simply clinched on.

Numbered leg bands are necessary where fowls are trapedsted for purpose of securing egg record or for pedigree breeding purposes. We believe that Prof. Philips, Purdue University, has worked out a good system of banding for special pedigree work and issued a bulletin on the subject. Those interested should write to Prof. A. G. Phil-

SPIRALETS

Mark Your Birds Distinctly Without Numbers
True colors. Correct sizes

Dark Blue	Light Blue	Yellow
Red	Pink	Green
Purple	Black	White



Size for	12	25	50	100	250	500
Baby Chicks	\$.010	\$.020	\$.030	\$.050	\$.110	\$.200
Pigeons	.10	.20	.35	.55	1.25	2.25
Growing Chicks	.10	.20	.35	.60	1.50	2.50
Bantams	.15	.25	.45	.75	1.75	3.00
Leghorns, etc.	.15	.25	.45	.80	1.85	3.25
Rocks, Reds, etc.	.15	.30	.50	.85	2.00	3.50
Asiatics, Turkeys	.15	.30	.50	.90	2.15	3.75
Turkey Toms	.20	.40	.65	1.00	2.25	4.00

Postpaid, 12 samples and circular 15c. Made by **M. BAYERDORFFER** HUGUENOT PARK, N. Y.

"TELL-EM" COLORED LEG BANDS

Tell the age of your poultry by the color of the band. The only way to successfully pedigree your chickens, ducks, geese, pigeons and turkeys is by use of proper bands.

"TELL-EM" BANDS come in 10 colors: Red, Green, Amber, Pink, Black, White, Yellow, Light Blue, Dark Blue, Purple, and in 6 sizes. Just name your breeds and color desired and we will fit the band. Prices postpaid: 12 for 15c; 25 for 30c; 50 for 50c; 100 for 80c; 250 for \$2.00; 500 for \$3.25.

"TELL-EM" Pigeon and Baby Chick bands. Same color as poultry. No. 1 for pigeons. No. 0 for chicks. Prices postpaid 12 for 10c; 25 for 20c; 50 for 35c; 100 for 50c; 250 for \$1.15; 500 for \$2.25.

REVONAH PRODUCTS CO.
451 Carlisle Street, Ex. Hanover, Pa.

LEG BANDS

Celluloid and aluminum; sure clinch, 12-15c, 25-25c, 50-45c, 100-60c; state breed. Spiral celluloid, 12-15c, 25-25c, 50-45c, 100-75c; 10 colors. Stevens' "Evergreen" Oat Sprouter, all metal; 4 sizes. "Savachic" Fountain. Circular for other bands and supplies

H. A. STEVENS & CO.
Box 355 Aurora, Illinois

HIGHEST SCORE EVER WON

100

Envelopes, 3 1/2 x 6 1/2 inches, an extra strong, thick, smooth, slick white writing face, and 100 Letterheads, 8 1/2 x 11 inches, heavy, hard, smooth, slick, pure white writing paper, all artistically printed and illustrated with latest new Standard cuts of your breed for only \$1.00. Express charges paid by me. Better printing for the price was never done. No order less than \$1.00 filled. Name your Express office. Cards, tags and egg labels same price as above.

Address, **J. R. HUDSON**, Hardin Springs, Ky.
We have saw samples of Mr. Hudson's printing. It is very nice; he is perfectly honest.—EDITOR.

Pagel's Sanitary Non-Freezing Fountain

No Lamps

Keeps water warm in winter and cool in summer. If not at your dealer, send for circular and testimonials from pleased customers.

Manufactured by the Originator
Fred Pagel B22 **Rockford, Ill.**

ARLINGTON REDS

Single Comb Rhode Island Reds only.
Second Display New York State Fair, 1917.
Third Display Madison Sq. Garden, 1918.

JOHN E. MACK
Box B, Arlington, Dutchess County, N. Y.

GLENCO Black Orpingtons

Book your orders for winter show-birds now

Dr. G. H. Humphrey, Woodbine, Iowa

HARNLY'S White Orpingtons

SPECIAL BARGAINS IN BREEDERS AND EXHIBITION STOCK
Mary K. Harnly 2301 Elisha Ave. **Zion City, Ill.**



THE FINEST
EGG CARTON MADE

The Cut-in-Seal

IS OUR OWN INVENTION

YOUR OWN PRINTING ON ORDERS
SAMPLES FREE

Bloomer Bros. Company
Newark, - - - New York State

Jacobs' Single Comb White Orpingtons

Again Win Their Share at the Indiana State Fair

Winning
1st Pen, 2d Cockerel, 2d Pullet, 3d Hen

A fine lot of youngsters maturing.
Write your wants to

Frank W. Jacobs
2027 W. NICHOL AVE., ANDERSON, IND.

5000 Selected White Leghorn Pullets

Utility Stock 90c each; 300 cks. selected from 5000 cockerels, \$1.00 each.

White Leghorns and Light Brahmas

From best in America
Pullets, \$5.00 Cockerels, \$5.00

STAUFFER POULTRY FARM, R 1, Wakarusa, Ind.

Yesterlaid are money hens



Profit is fixed in the blood of Yesterlaid Leghorns. Their eggs are big and white. Yesterlaid are far superior to average hens—they lay better in winter and cost less to feed. Three Yesterlaid can be raised at the cost of two ordinary chickens because they are so vigorous and quick growing. Valuable details free.

Lady Reymann 480 Eggs

YESTERLAD EGG FARMS COMPANY, Dept. 5, PACIFIC MO

GENSCH'S Single Comb White Orpingtons

Sensational Winners at Chicago Coliseum,
Grand Breeders — Half Price

A good chance to get the best cheap.

F. M. GENSCH - OMRO, WIS.



White Leghorns

Yearling and two year hens. If you are looking for good breeding stock that are laying heavy now, at very reasonable prices, write

PURITAN POULTRY FARM R. 2 ZANESVILLE, OHIO

Poultry Cuts

for illustrating your advertising and printing. All sizes. Send for catalog and prices.

AMERICAN POULTRY JOURNAL
523 Plymouth Court, Chicago

ips, poultry husbandry department, Purdue University, LaFayette, Indiana.

In keeping an egg record by means of leg bands and trapnets, a special record sheet is kept in a convenient place in the poultry pen. When the fowl is taken from the nest, her leg band number is marked on the egg with pencil, and on the record sheet under date of laying the egg is recorded to the credit of the number of the hen. This provides for a record of the hen and identification of her egg for pedigree hatching.

There are many variations which may be made of flock and individual bird identification and record keeping thru the use of leg bands and thru combined use of bands and punch marks in web of bird's foot, or combined use of the wing band and leg band. As the beginner becomes familiar with their use he will adopt the system most suited to his needs or perhaps develop a system of his own.

A wide variety of leg bands for ordinary and special purposes is to be found advertised in the columns of A. P. J. and most manufacturers are prepared to furnish advertising literature treating of the use of leg bands on request. Write them.

HOW TO FEED TO GET MORE EGGS.

Highest Egg Prices in History Present Great Opportunity to Poultry Raisers.

Egg prices are going up every day. Indications point to the highest winter prices in history. Feed is high, but poultry raisers who know how and what to feed will get more eggs and better prices than ever. More money can be made from poultry than ever if you cut out the drones and use the most efficient methods.

Our readers should send at once for a free copy of the new 16-page bulletin by Prof. T. E. Quisenberry, president of the American Poultry School, Box 206, Leavenworth, Kan. It tells "How and What to Feed for Heavy Egg Production and to Cut the Cost of Feed." He gives special free information on how to increase the production of high-priced winter eggs. Hundreds of hens fed and cared for under Prof. Quisenberry's direction have laid 200 to 298 eggs during a single year, while the U. S. Government reports show that the average hen produces only 60 to 80 eggs a year.—Adv.

Wonderful Egg Producer.

Any poultry raiser can easily double his profits by doubling the egg production of his hens. A scientific tonic has been discovered that revitalizes the flock and makes hens work all the time. The tonic is called "More Eggs." Give your hens a few cents' worth of "More Eggs," and you will be amazed and delighted with results. A dollar's worth of "More Eggs" will double this year's production of eggs, so if you wish to try this great profit maker, write E. J. Reefer, poultry expert, 3897 Reefer Bldg., Kansas City, Mo., who will send you a season's supply of "More Eggs" Tonic for \$1 (prepaid). So confident is Mr. Reefer of the results that a million dollar bank guarantees if you are not absolutely satisfied, your dollar will be returned on request and the "More Eggs" costs you nothing. Send a dollar today or ask Mr. Reefer for his free poultry book that tells the experience of a man who has made a fortune out of poultry.—Adv.

Low Price Laying Mash

Makes Hens Lay All Winter

Blatchford's "Bar-Nun" Laying Mash is produced to give poultry raisers the richest egg-making food at the lowest price. "Bar-Nun" gives the highest quality, all egg-making, food value for your money.

Blatchford's

Established 1800



"Bar-Nun"

Laying Mash

Makes hens winter profit-makers. No waste. Analysis shows "Bar-Nun" gives highest food value. Contains no cheap fillers or by-products. **Makes eggs.**

"BAR-NUN"
Dry-Mash
Feed Hopper
Stops all waste. Pays for itself quickly. Can't get out of order.
Saves Feed
Patented. Guaranteed. Cheap. Protects from rats and mice.
Saves Labor
See it at your dealers.

Analysis:
Protein . 20%
Fat 5%
Fiber . . . 8%
Carbohydrates . 48%

Get "Bar-Nun" from your dealer or direct from makers.

Write for Cards

Send your name on the coupon below for "Feeding Directions" and egg income facts. Free. Puts you under no obligations. Everything you need to know to make your hens winter layers. Write today.

Blatchford Calf Meal Co.
Dept. 3897 Waukegan, Ill.

Blatchford Calf Meal Company
Dept. 3897, Waukegan, Ill.

Gentlemen: Please send me free and without obligation your cards of information on feeding hens for winter egg production.

Name

Address

INDIANA STATE FAIR.

By THEO. HEWES.

More and Better Birds Than Have Been Exhibited Here in Eight Years — Sales Good in All Departments and a Large Attendance Day and Night.

OH YE of little faith, who imagined that the fancy poultry business of this country was dead and buried, should have attended the Indiana State Fair and witnessed the resurrection. The entries were larger than at any time within the past eight years, the quality the best we have ever had and the buying public was here with money to pay good prices for good birds. It is a well known fact that when the Indiana fanciers decide to put over something, they usually put it over, and when they unite to make a thing a success, it has never yet been a failure. This year when we saw other states falling down on the number of entries and a seeming lack of interest on thorobred poultry, we decided to give to the world an object lesson of what can be done when a united effort is put forward to do it.

The result was, between twenty-one and twenty-two hundred entries in the poultry department alone, with a throng of prospective buyers crowding the aisles from early morning until late at night.

You boys from other states that have had cold feet and who have believed that the fancy poultry business had gone to pot had better awaken and shake the dust out of your eyes and get started again; if you do not, the Hoosier fanciers will get the business away from you.

Every important breed and variety was well represented, and while some of the old time favorites of Indiana showed a lack of proper conditioning, there were enough good ones to make the show representative to the public and they had an opportunity to see a high class exhibit, and being encouraged by the entries of the breeders, to go into the business in the right way.

The pet stock fanciers, not to be outdone by the poultry fanciers, made a nice display of rabbits and cavies, and this will be one of the big features of this fair in the future, with proper classification of all animals and first-class judges awarding prizes.

Barred Plymouth Rocks were represented with fifty single entries and six pens; this class was not as strong as we usually find in Indiana, but at that decidedly better than most of fairs held this fall, and it is a well known

fact that this state can and does produce some of the best Plymouth Rocks in the country.

The White Plymouth Rocks were a show by themselves, with U. R. Fishel, with forty-eight birds, winning every money prize, except third hen.

Buff Plymouth Rocks were larger in number of entries than last year, and the winnings in young birds especially strong.

The Columbian Rocks had only a small class; this variety does not seem to catch on well in the Hoosier state.

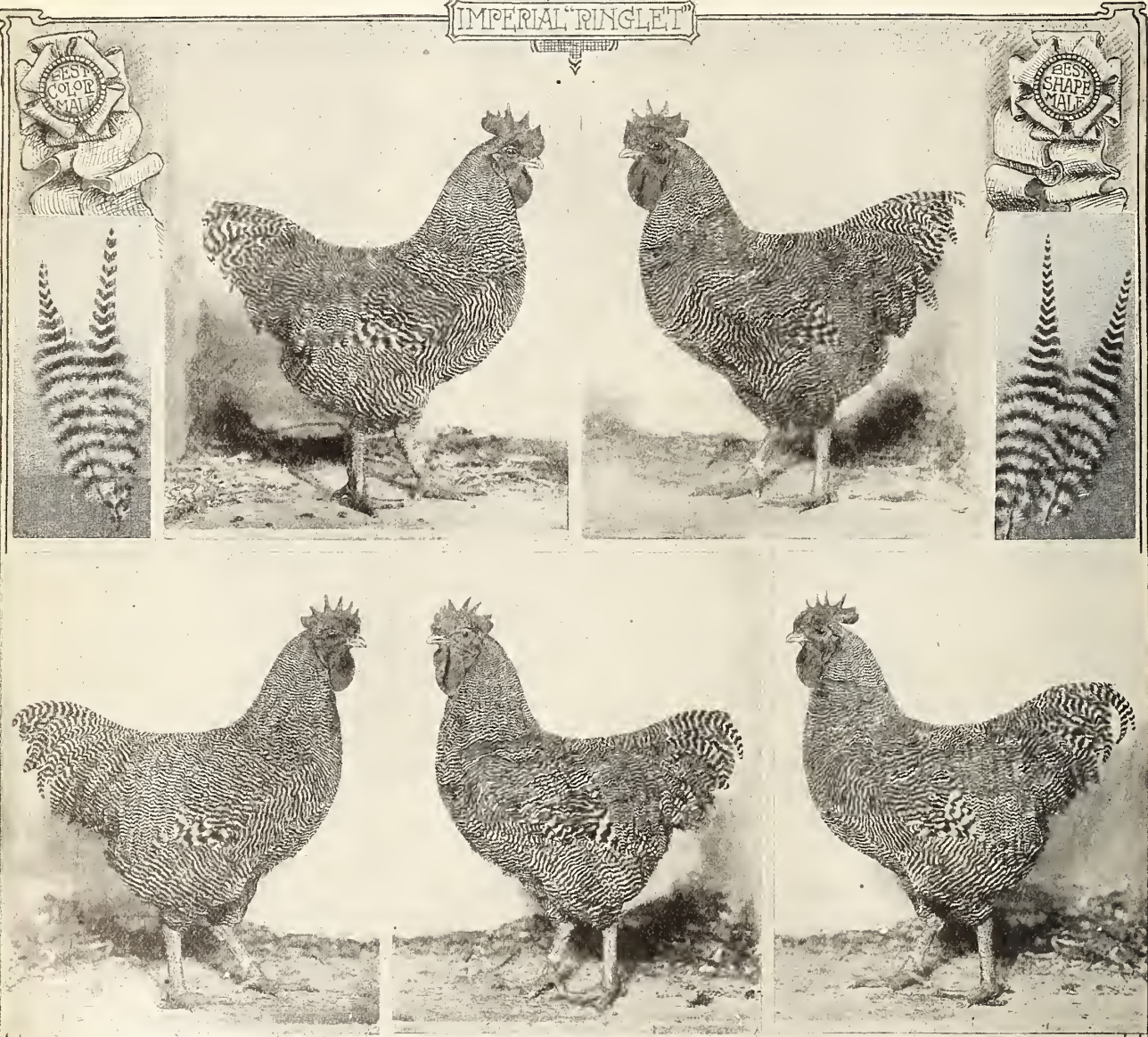
The Silver Wyandottes were one of the best exhibitions we have ever had at the state fair, and the quality equal to many of our winter shows.

The Golden Wyandottes have never been very popular in Indiana for some cause or other; there were thirty-four single entries and two pens; the quality the best we have had for a long time, and it looks like new life for this one-time popular variety. Let us hope so at least.

The White Wyandottes had a big entry and the winners were of exceptional merit; first hen and first pullet we believe equal to anything that has ever been shown at the state fair.

The Buff Wyandottes had only a small class. The Single Comb Reds had a very creditable showing in number—not, however, up to former years—but quality equal to that of other

IMPERIAL "RINGLET"



BARRED PLYMOUTH ROCK COCKS, WINNERS OF EVERY PREMIUM OFFERED— FIRST, SECOND, THIRD, FOURTH AND FIFTH PRIZES— AT MADISON SQUARE GARDEN NEW YORK JAN. 1918. BRED OWNED AND EXHIBITED BY E. B. THOMPSON AMENIA N. Y.

E. B. Thompson
1918

classes and many of the young birds will undoubtedly be heard from later on in the big shows.

In the Rose Comb class, Wm. Overman showed an old pen that has never been surpassed in quality at this fair, either in shape or color, and a pen that will be heard from later, as they are just going thru the molt and show that exceptionally dark, even surface admired by old fanciers but seldom met with as early as September.

Light Brahmas, the old-time favorites, had twenty-five single entries and seven pens. Frank P. Johnson winning every prize, except first hen. This prize went to Chas. McClave, who had one of the best hens shown in the state; this hen was one of the old-time, real light Brahmas, the kind that made the breed famous when I. K. Felch and other old-timers were pushing them to the limit; a good, long back, with the bird standing well up on her legs, with almost perfect markings in neck, wings and tail.

The Dark Brahmas, Buff, Partridge and White Cochins, while shown in good number, were not in the same high quality we would like to see. The birds in most cases were cocks and hens and were shown in bad molt, and the young birds not well enough matured.

The Black and White Langshans had a good class and some exceptionally fine quality.

The Single Comb Brown Leghorns were a show by themselves. There were 54 entries in singles and ten pens. They led all classes in number of entries and let it be said to the credit of the Brown Leghorn breeders, the quality was in keeping with the number. The State Fair Association recognized the light and dark matings, making a class for them and paying cash prizes on all of them, with the result that we had a real winter show in quality, and I do not believe that any breeder at any time or place, winter or summer, has ever put on an exhibition of Single Comb Brown Leghorns that from cocks to pens equaled the one put on by Herman Rikhoff at this state fair. It was the unanimous opinion of judges and breeders alike, that this one exhibition was the best that was ever shown either at the state fair or a winter show and it proves what a fancier can do who is fortunate enough to have a wife that is interested with him in the business. We think it is only fair at this time to call attention to some of the breeders in this state that have made a national reputation for themselves to give a little of this credit where it belongs, to the wives of these fanciers. Take Mrs. Rikhoff, Mrs. U. R. Fishel and Mrs. Chas. V. Keeler as an illustration; had it not been for the co-operation of these three ladies, we question very much if these three breeders, whose names are known wherever fancy poultry is bred, could have made the reputation they have made and I hope this little special mention may encourage other fanciers' wives to assist in the right way to make their husbands' business successful by assisting in taking care of the chicks, for it is a noted fact that the first eight weeks of a chick's life tells the tale of its success or failure in the show room.

The Rose and Single Comb White Leghorns were out in force, with some of the best quality in males and females shown here in years.

Buff Leghorns had a good class, but the birds hardly up to size, many of the young birds carrying their chick plumage.

The Single Comb Minorca a big entry, with John L. Brown, Anderson, Ind., and H. A. King, Ossian, Ind., scrapping it out for honors. Mr. Brown handicapped his exhibit some by holding many of his good birds back for the New York State Fair, but even at that won the best display.

The White Faced Black Spanish was the surprise of the show, there being thirty single entries in this old-time variety. A few months ago I called attention to this old-time breed in a short article in the American Poultry Journal and it seems this article has done

When George Newell discovered that he could Increase Egg Production

100%

by the use of artificial light in his poultry houses in the early mornings and evenings of the short, dark days of winter, he opened the way for far greater profits in the poultry business. The only drawback to Mr. Newell's system has been that most poultrymen were not located where they could install electric lights. This

deficiency has now been remedied by the

Acorn Uni-Lite

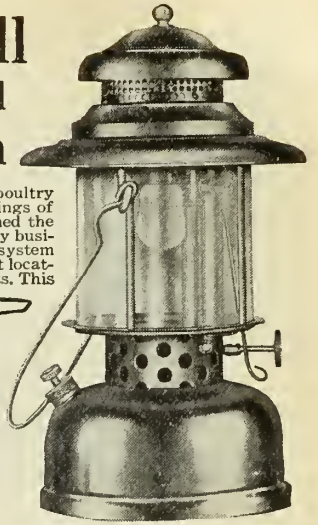


The Light That Shames Electricity

A Portable Three-Hundred-Candle-Power Light

which burns 15 hours at one filling—costing only a quarter of a cent per hour for light that in brilliance, whiteness and steadiness puts any electric incandescent light in the shade. It burns common gasoline or kerosene. Is storm-proof, bug, rain, sleet and snow-proof. You can upset it and roll it around without the slightest danger. No odor, no smoke, no wicks to trim.

During the short days of winter it keeps your hens busy to eat enough to ast them through the long, cold night—they have nothing left for eggs. Keep one of these lanterns burning in your poultry house early in the morning, and for a while in the evening, and see your egg production jump. Write for special proposition to poultry raisers. ACORN BRASS MFG. CO., 111 Factory Bldg., Chicago



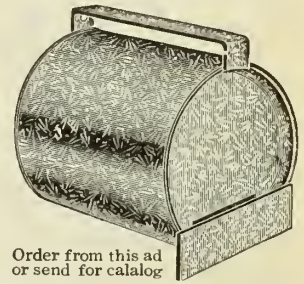
Big Money-making Proposition for Farmers, Stockmen, Poultrymen, Auto Owners, Liverymen, Watchmen and Campers.

HERE IS A BARGAIN

Special Half Gallon Poultry Fountains

Made of heavy galvanized iron—practically indestructible. Handy to carry and will not tip over. Price, 50 cents each, or SPECIAL SALE PRICE while our present stock lasts

6 FOUNTAINS FOR \$2.00



Order from this ad or send for catalog

SIMPLEX SUPPLY HOUSE, PETERSON BLDG., CHICAGO, ILL.

RELIANCE LICE KILLER

Rids your chickens of lice, mites or bluebugs. Only successful remedy given in drinking water without injury to fowls. Reliance Roup and Canker Cure does the work. Reliance Tonic makes hens lay. Reliance Cholera Specific, a sure cure. Reliance Sorehead Remedy never fails. All remedies put up in 25c, 50c and \$1 sizes, and positively guaranteed or money refunded. 1000 chickens treated as easily as 10. Manual of poultry diseases sent free on request. "Chickens cackle for Reliance Remedies"

RELIANCE REMEDIES COMPANY : : : EL PASO, TEXAS

Single TOMPKINS' RHODE ISLAND REDS Rose

Big sale of breeding stock now on. 400 birds for sale at one-half their actual value that will fit any breeding pen for another season's work. Let me know your wants fully and I will be pleased to quote you on a single bird, trio or pen. Address

HAROLD TOMPKINS Box A CONCORD, MASS.

America's Best Wyandottes—Golden, Silver, White

We offer a large number of our fine stock birds at greatly reduced prices. All birds bred from New York, Chicago and other great show winners. No finer stock living. Large circular free.

IRA C. KELLER, Brookside Farm - - - - - Box 75, Prospect, Ohio



U. R. FISHEL HOPE BIRD

At Indiana State Fair, 1918

One of the premier Fall Poultry Exhibitions, my winnings in very strong competition, with Charles McClave Judge, were First, Second, Third Cock; First, Second Hen; First, Second, Third Cockerel; First, Second, Third Pullet; First, Second, Third Pen Fowls; First, Second, Third Pen Chicks.

U. R. Fishel's White Plymouth Rocks

are better this season than ever. I have not only improved their winning qualities but the egg production as well.

At Cincinnati, O., A. P. A. Show, August, 1918

First, Second, Third, Fourth, Fifth Cock; Second, Third, Fifth Hen; First, Second, Third, Fourth, Fifth Cockerel; First, Second, Fourth, Fifth Pullet; First, Second Pen Fowls; First Pen Chicks; Special Best Display.

I can give you Special Values now in Exhibition Birds, Selected Breeders or Utility Fowls.

Write me your wants, please—Buy Now.

U. R. FISHEL

Box A

HOPE, INDIANA

Just What You Will Need This Winter

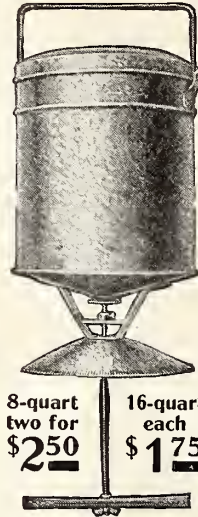
This is the FAULTLESS Automatic Feeder

All you have to do is to fill the can of this feeder with wheat, corn, oats or any other kind of feed, either mixed or separate. When the chickens are hungry they pick at the cross bar; this causes some feed to drop to the ground where the chickens can pick it up. No feed spoils or is eaten by rats or sparrows. **You can save enough feed in one month to pay for these feeders.** Besides the saving of fuel, you save work.

Here Are Our Low Prices

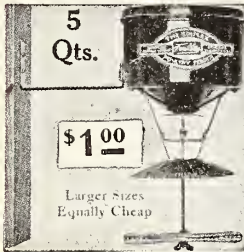
This feeder holds $\frac{1}{2}$ bushel of feed. It is made of heavy rust-proof material. It weighs six pounds packed for shipping. Order by No. 153.

And What is More, we will send you two 8-quart feeders, same style as above, both for \$2.50. These two feeders weigh nine pounds and will not be sold singly. Order by No. 152.



Here is the Feeder for Your Low Coop

Or for Your Baby Chicks



It holds five quarts, will feed any kind of feed, either mixed or separate. It is built on the principle of the large FAULTLESS Feeder and is furnished complete with brackets, which can be attached to the wall or side of a coop at proper height. This feeder is beautifully painted and with ordinary care it will last forever. It is guaranteed to feed your stock perfectly from the time the chicks are able to eat until ready for the ax. We sell this feeder for \$1.00. It weighs $3\frac{1}{2}$ pounds when packed. Get one today and feed your chickens right. Order by No. 151.

We carry a full line of poultry appliances and remedies. We also manufacture the well known Simplex Genuine Feather Brooders and Hovers—both heated and fireless. Send for our CATALOG; it will interest you.

SIMPLEX SUPPLY HOUSE, Peterson Bldg., CHICAGO, ILLINOIS

much to revive an interest in them. I met several fanciers at the Indiana State Fair who complimented the article and said that if we can be assured that a journal like the American will give some consideration to this old-time breed, we will push them as they should be pushed; but for years they have been neglected and practically no attention paid to them, with no representation at the shows, until we found that there was practically no demand for the good ones. I studied the exhibition closely this year; being in competition myself with a few birds and I can say truthfully that the birds here displayed were equal to any we have ever had at any show for the past ten years; good, big birds, with good combs, and several of the males and females with exceptionally good faces.

The Andalusians and Anconas had only a small class, but some of the birds were real good. Like the Spanish, the Andalusians need a little boosting once in a while. The Anconas were a disappointment, as we usually have a strong class at the State Fair and certainly no one variety of the Mediterranean is better advertised than this popular breed, both in Rose and Single Comb.

Buff Orpingtons—There were 36 singles and ten pens in this class. Taking the entire exhibit, I do not believe it was shown in as good condition as former years. The old birds were not finished, except a few hens in the open class, while the cockbirds were in many cases almost ragged. The winning cockerels and pullets, also first young pen, were quite well along and one could get a good idea as to what they will do at the early shows. The three winning hens in the open class were good; they were almost thru molt, good in shape, and while a little stronger in color than some, looked like they were real top-notch hens.

White Orpingtons were a good class and some exceptional quality. Wm. N. Otto, Indianapolis, and Frank Jacobs, Anderson, Ind., both showed a good string. Mr. Otto's first hen, we believe, was as good as ever was shown at the state fair. The Black Orpington class had a little larger entry than the White Orpingtons, and the first cockerel in this class was undoubtedly the best young bird shown. This bird was equal to any that has ever been shown at the state fair and decidedly better than many that are shown at the winter shows.

The Dark Cornish a small class, but some good birds.

The Speckled Sussex a good class and some corking good ones among them, the Moraine Farms, Dayton, Ohio, being out with one of their best show strings and we believe winning every money prize.

The White Crested Black and White Polish had about the same entry as former years, with exceptionally good birds among them.

The Hamburgs, Houdans and Campines about the same entry as former years.

BANTAMS.

For several years the Bantam breeders have complained about their exhibitions not being properly displayed, they being compelled to exhibit in large cages in a dark part of the building where the birds do not show to good advantage. This year the Bantams were displayed in tents outside the building, in Bantam cages, with perfect light and ventilation. This exhibit was really one of the big attractions of the poultry show and was crowded from morning until night. The quality was good and almost every variety of Bantam was shown in sufficient numbers to make competition keen and the fanciers were scrapping for every premium, from first to third.

Turkey and water fowl were a disappointment, due to the fact that the premium money offered on these heavy birds does not warrant the breeders in bringing out a strong show. A resolution was offered by our state association recommending an increase in premiums on turkeys and geese and assurance was given by the management that it will increase the premiums for 1919. So for future exhibits we may look for a big entry, as many of the best turkeys and geese in the country are bred in Indiana.

NEW MANAGEMENT.

It would not be fair to close this article without a few words in regard to the new management in charge of the poultry exhibit. Mr. Pickhard, the member in charge, selected Wm. Overman and W. W. Zike as his assistants and these gentlemen introduced some new and beneficial features, the best we have had in the poultry building in the past ten years. In fact, this show was run like a poultry show should be run. Everybody "Johnny on the spot," every coop numbered and every class assigned before the birds arrived, with no hitch or delay in cooping, and it was the unanimous opinion of the exhibitors that it was the best managed poultry show we ever had at the state fair. A petition has been presented to the state board requesting that these gentlemen remain in this depart-

Again at the Front



Scores of well-developed Sunswick Show Birds await orders. They are bound to win the blue for someone. Will it be for you?

SUNSWICK S. C. BUFF ORPINGTONS

excel in type and color. We've plenty of classy Breeding Birds on sale at all times. We realize that poultrymen must figure closely in war times. You'll find our prices moderate, quality considered. The word to the wise is: "Buy early this fall." Write and we'll tell you why.

SUNSWICK POULTRY FARM, Rufus Delafield, Owner, Box J, SO. PLAINFIELD, N. J.

Choice Cockerels of the Foremost Winning Strains

BUFF ORPINGTON Cockerels from first cock, 1916 Coliseum show.
S. C. W. LEGHORN Cockerels, Smith's strain, none better in the world.
R. C. ANCONA Cockerels, from first cockerels both Chicago shows, 1917-1918.

These are well-developed birds, carrying the qualities that have made their progenitors winners at America's strongest shows. If you want the best, here it is. Send today for literature and describe your needs.

H. T. WINDSOR, RIDGELAWN, BATAVIA, ILL.

Leggett's Columbian Wyandottes

SPECIAL—We are now offering a few fine breeders from all of our matings at one-half their worth. If you want the greatest values, write now. Cockerels and pullets mostly all spoken for. Free circular. **H. A. D. LEGGETT & CO., 24 N. Nash Pl. BURLINGTON, VT.**

ment, with the promise from the breeders that they will make this one of America's greatest fall poultry shows if they will do this.

The Southern Seed Co., realizing the importance of this exhibition to the poultrymen of this state, issued a catalog with names and addresses of the exhibitors, with the coop numbers assigned to each exhibitor, and this catalog was given away free. This was a new feature and the Southern Seed Co. is entitled to the thanks of the poultrymen for this courtesy, as thousands of these catalogs were distributed and it makes a winning of decidedly greater value to every one. The judging was all completed on Tuesday and all premiums paid on Friday.

THE QUAKER OATS CO. PUTS OUT A LITTLE SHOW OF ITS OWN.

The Quaker Oats Co., one of the most progressive of the feed manufacturers of today, rented space near the Coliseum, erected its own tent, brought on a nice exhibit of hogs and poultry and demonstrated just what its feed will do in bringing early maturity and good growth to these valuable products. Its food was on display, with real representative men to explain the methods of feeding, and with the hogs and poultry on exhibit to prove all that company has done. An immense business was done and we may look to every other feed manufacturer to follow this system.

U. R. Fishel made one of his famous exhibits. When Fishelton comes out you can bank on it there is going to be something worth while to see in White Rocks. The boys all crowded over in the White Rock alley when U. R. and Edward began to uncoop, and believe me there was something to look at. Forty-eight birds entered, white as a snow bank and every one of them right up on their toes in the pink condition. It takes work, and a lot of it, to fit a show string of white birds in early September, but it pays to do it right, as proved by the awards. Mr. Fishel won every ribbon in the class, except third hen.

We regret to learn that J. C. Fishel is seriously ill. He has been under the weather for several months and the attending physician does not seem to be able to get him around. His exhibit of White Wyandottes was missed by the public and there were many calls for him during the week.

Walter Young, of Dayton, let us take a look at his string of Speckled Sussex. Mr. Young has made Moraine Farms famous with this popular variety. His birds were shown in elegant shape, and it is needless to say made a killing. Mr. Young judged a number of the classes and gave the best of satisfaction.

When I learned that the Illinois State Fair had fallen down on its entries this year, I put out an S. O. S. signal to about thirty of our breeders, with the result of 2,180 real birds for the old Hoosier state.

If you think the business is dead, that it is time to call off big shows and state fairs, please come over to God's country and soak up a little enthusiasm. This was the most successful state fair ever held in Indiana. There was nearly \$30,000 more money on the gate than any previous year; there were more entries in live stock than ever before; there was more real enthusiasm than I ever saw displayed at this great state fair. The slogan was, "We've got the best of our boys at the front in France, and we want them to know we are keeping the house in order for them to return to when they make this world a safe place for real people to live in." Take a little of this home to yourself, every reader of the A. P. J. This is no time to retrench or count postage stamps. Put some bread on the water and it will come back with the greatest dividends in the history of the business. This war may last a year; it may last ten; but Indiana will be right up there fighting to the last.

For forty-five years the American Poultry Association has unceasingly labored in behalf of better poultry—Standardbred poultry, if you will, the kind that for forty-five years has stood for the most profitable kind. During these forty-five years of history in the American Poultry Association there have been brought into existence all the various breeds and varieties of land and water fowl, all of which have proved of value to the resources of America. At the forty-third annual meeting of the American Poultry Association it was deemed advisable, and voted unanimously, that the fanciers of America contribute to a "War Emergency Fund" such a sum as they could patriotically devote to the cause of more and better poultry and to the publicity campaign now being started. At the meeting \$1,500 was pledged in fifteen minutes, so that the American Poultry Association feels confident of prompt support in this nation-wide campaign. Every fancier or lover of Standardbred fowl is earnestly asked to make a contribution to the War Emergency Fund by sending his offering to E. B. Campbell, secretary, American Poultry Association, Mansfield, Ohio.



Over 100,000 of these popular **POCKETBOOKS** now in use. Are You a Member of the **100,000 Club?** You can't afford to stay out!

The 1919 Model of our well-known "American Bankroll"—a combination **Billfold, Coin-purse, Checkbook holder, Card and Photo-case**, 3x4 3/4 in. folded, of **Fine Black Seal Grain Genuine Leather**, postpaid, only **69c** (\$7.45 Per Doz.)

Iron strong, yet wonderfully limp and flexible. We engrave any name in 23-K Gold free (name of city 20c, street number 20c, Fraternal Emblems 25c extra). You'll find place for coins, currency, cards, photos or passes, etc. Also the Memo-Diary, an interesting book of 48 pages, brimful of necessary information, such as **First Aid, Presidents of the U. S., Health Information, Dates and Payments due, Addresses and Telephone Numbers, etc.**

The **American Bankroll** is also sold in a very strong **Black Morocco Grain Genuine Leather** for **\$1.00** (or \$10.80 Per Doz.)

This is your **Sunday Pocketbook**. Send postage stamps or money order. If you don't think you have gotten more than your money's worth, we will refund immediately. We have been in business for years. Ask your Bank about us—they know—we sell them. You will be proud to own one of these pocketbooks—the **Biggest Show you ever got for your money—everybody wants them.** Our **13th annual catalog** free with orders for American Bankrolls, or sent alone for 10c postage.

U. S. LEATHER GOODS CO. (Established 1906 Incorporated 1910) Dept. 80-C, 106-8-10 W. Lake St., Chicago

MAKE YOUR HENS LAY!

MEAT SCRAPS

NACO BRAND
45 to 50% Protein
55 to 60% Protein

Fed to your Hens daily will make them produce a maximum yield of eggs. Simple to feed, place NACO Brand Meat Scraps in a dry food hopper; in this manner they will help themselves, take what they need and not overeat.

NACO Brand Meat Scraps are the very finest quality obtainable, made from carefully selected meat trimmings. We carry two grades, 45 to 50% Protein, and 55 to 60% Protein.

If you want quality, digestibility and palatability, combined, you will get them in NACO Brand Calf Meal, Pig Meal, Digester Tankage, Dairy Feed, Dried Buttermilk, Milk Mash, Egg Mash, Scratch Feed, Chick Feed, etc.

Write today for your copy of our Stock and Poultry Feed "Flyer" fully describing the entire NACO Brand Line

FEEDS, SEEDS, STOCK AND POULTRY TONICS

Fertilizers, Insecticides, Farm Chemicals

NITRATE AGENCIES

COMPANY

DEPT. A

85 WATER STREET

NEW YORK CITY

Light Brahma and Dark Cornish

Pullets and hens, \$4 up; cockerels, \$5 up. These birds are all first-class and breed second to none. Satisfaction guaranteed or money refunded.

JOHN BLANCHARD **Columbus, Wisconsin**

COCKS Tom Barron Strain COCKS

S. C. White Leghorn

These birds were used in my breeding pens the past season, and some are from imported hens sired by imported males. **PRICED AT \$3.50 to \$5 EACH**

These are remarkable values for the high record stock I am offering. My pens have been averaging 60% for the past year, and many of these cocks are from 252 egg record hens. Order direct from this ad or send for catalog. **WHITE FEATHER EGG FARM A. H. GREWE, Prop., Rt. 1, DES PLAINES, ILL.**

OTTO

1907 :: 1918

White Orpington Opportunity

Grand breeding hens from our Indianapolis and State Fair winners at special prices to make room for young stock. Particulars by return mail.

WILLIAM N. OTTO 4815 Central **INDIANAPOLIS, INDIANA**

Get the American Poultry Journal 3 years for One Dollar

THE COLISEUM

CHICAGO

The World's Greatest Poultry and Pet Stock Show

Will Hold Its

TENTH ANNUAL EXHIBITION

December 3, 4, 5, 6, 7 and 8, 1918

The Show Opens on Tuesday and Closes on Sunday Night

Regardless of increased rental almost doubling that of former years; regardless of increase in every item of show expense; regardless of war and the thousands of inconveniences occasioned by the war,

THE GREAT COLISEUM SHOW

will be held as advertised. This, we feel, is our solemn duty to the loyal fanciers of this country, and we will not shirk this responsibility.

THE COLISEUM

is the one show west of New York that for nine consecutive years has met every obligation in full and in cash without the sale of one dollar of its capital stock. The same liberal guarantee is offered you for 1918.

THE COLISEUM SHOW

has introduced more new features that have worked to the betterment of the fanciers than all other shows in America combined, and this year we will introduce two additional features that will revolutionize the poultry shows of this country.

A WINNING AT THE COLISEUM

on any breed or variety in 1918 will carry with it a greater advertising value than any win you can make this season. The dates are ideal, coming ahead of extreme cold weather and ahead of all other National shows, on the same dates as the great International Stock Show. We put you in touch with the greatest buying public that will congregate anywhere this winter. Our reputation as a sales show is established. Not one year but every year the calls surpass the supply for high class birds, and, so far as we are able to learn, it is the only show where a legitimate sale of \$5,000 was ever made by a single exhibitor.

THE COLISEUM SHOW

is the only National show that absolutely guarantees its concessionaires. It is our proud boast that we have never sold space to a faker.

Yes, the Coliseum Show Will Pay Cash Prizes

In fact, there is more real cash offered this year than ever before. This is no time to retrench or count postage stamps. This is the time for big things and we represent a big industry. The legitimate breeder needs all the encouragement the shows can give him and we are giving it freely. In addition to our liberal cash prizes, there will be a \$50 trophy for the best ten Plymouth Rocks, a \$50 trophy for the best ten Reds, a \$50 trophy for the best ten Leghorns, a \$50 trophy for the best ten Orpingtons and a \$50 trophy for the best ten Wyandottes.

THE PREMIUM LIST IS NOW READY

All exhibitors at the 1917 show will receive the list without request; others should write the secretary for a copy at once, as the list will not be mailed indiscriminately. Old exhibitors not receiving the list by October 10 will write for it, as there is much uncertainty about mail delivery. Entries positively close November 15. For list of judges, see notice published in this issue.

Address of secretary until October 15, Indianapolis, Ind. After October 15, Lexington Hotel, Chicago. The Lexington Hotel has been selected as headquarters.

Chicago and suburban residents desiring space in the Coliseum may get information from James W. Bell, care of American Poultry Journal, 523 Plymouth Court; but for premium list address

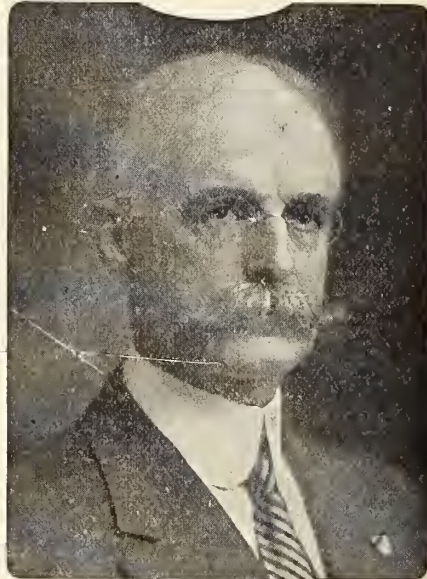
THEO. HEWES, Sec'y.

HAPPENINGS of INTEREST

in the POULTRY WORLD

D. W. Young Sells Out.

D. W. Young, the man who made S. C. White Leghorns so popular in this country, has sold his entire flock of Leghorns and poultry equipment to Oakdale Farms, of Austin, Minn. This sale, of course, includes all his celebrated Madison Square Garden winners,



D. W. YOUNG.

and Oakdale Farms are certainly to be congratulated upon securing this great string of birds. It has been an acknowledged fact for years that Mr. Young was the foremost S. C. White Leghorn breeder in this country, and by securing this entire flock the Oakdale Farms become leading factors in both the showing and breeding of S. C. White Leghorns in the middle west, if not in the entire country.

Another Big Sale of Leghorns.

Eugene Smith, Aurora, Ill., has disposed of his entire flock of S. C. White Leghorns, good will, etc., to C. R. Hopkins, of Osage, Iowa. This, of course, includes all Mr. Smith's prize winners. During the past few years Mr. Smith has made a most excellent record with his S. C. White Leghorns at the leading shows in the middle west and succeeded in building up a very high-class flock of this popular variety. It is our understanding that Mr. Hopkins intends to follow in the footsteps of Mr. Smith and he will, no doubt, exhibit at the leading shows this season. American Poultry Journal wishes him every success.

FREE—\$3200

including \$1300 Automobile, Player-Piano, Talking Machines, Diamond Ring, Watches, etc., etc.

ABSOLUTELY FREE!!

EVERY ONE GETS AN AWARD

A Handsome Fountain Pen FREE
for a quick reply. Write at once.

THE POULTRY ITEM

CAMPAIGN DEPT.,

Sellersville, Pa.

Scott's Red's KNOWN FROM
COAST TO COAST
C. P. SCOTT,
PEORIA, ILL.
ROUTE 36, BOX A

Associations and Shows

Secretaries are Requested to Send in News Items of Interest About Their Shows for This Department

Valuable Trophies to Be Given at Coliseum Show.

Herewith is shown an illustration of what is probably the most valuable trophy ever offered at a poultry show.

This service set consists of a silver water, size 12x18 inches, genuine Sheffield silver water pitcher and six triple plated gold-lined goblets.

Awards will be made in the following manner: All varieties of the breeds listed above will be considered and a trophy awarded to the breeder having the best ten entries in that breed. Parti and solid-color compete in all breeds listed that have the two colors in their several varieties. The judges in making their awards will be governed by Standard equality, and will give due consideration to all sections in parti-colored birds



Five of these trophies are offered at the Chicago Coliseum Show this year. One for each breed will be given for best ten birds in each of the following breeds: Plymouth Rocks, Rhode Island Reds, Leghorns, Orpingtons and Wyandottes. They are being offered by the following well known feed manufacturers of Chicago: The Quaker Oats Co., Hales & Edwards Co., Albert Dickinson Co., Park & Pollard Co. and J. J. Badenoch Co.

The placing of these cups has been left to the secretary of the show, and the breeds selected are the ones that have had the largest entry for the past five years.

that are hardest to bring to perfection. No special entry is required to win these trophies and they will be awarded at the show. The only provision is that exhibitor must have ten or more entries in order to become eligible in competition.

We do not believe there was ever a special offered that carried with it the advertising value of these trophies.

If you did not exhibit at the Coliseum Show last year, or if you have changed your address since that time, do not fail to send your name to the secretary. For further information write Theo. Hewes, secretary, 25 West Washington St., Indianapolis, Ind.

Keep Your Eye on Kansas City.

The second annual exhibition of the Heart of America Poultry Show will be held in Kansas City, November 25 to December 1, 1918, and promises to eclipse its wonderful success of last year, a record that we feel we can point to with much pride and satisfaction. Our show was pronounced by leading poultry authorities one of the finest and best conducted poultry shows they had ever

attended. The Heart of America Show will again offer its usual cash premiums in addition to many valuable specials. Our show has been favored by two national meets this year, with others still voting, and we hope Kansas City will be their choice. Our premium lists will be ready to send out about October 1 and will be sent to all of our last year's exhibitors without request; all others should write Charles Grunske, secretary, 1514-Elmwood avenue, Kansas City, Mo., so

United Exhibition Coop

The Best and Why

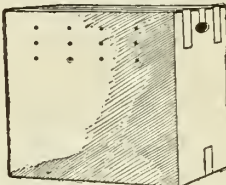


Made of heavy galvanized steel wire. All joints electric welded. As rigid and strong as if made of one piece of metal. A model in appearance. Collapsed in one second's time. Also furnished with sheet metal sides.

We make coops for Bantams, Rabbits, Chickens, Turkeys, etc. Send for catalog and prices.

UNITED STEEL & WIRE CO.

Dept. B Battle Creek, Michigan.



COOPS Special Sale

Size	Doz.
No. 2 22x12x18	\$4.00
No. 3 22x12x22	4.25

Western Box & Basket Co.
OMAHA, NEB.

S. C. Buff Orpingtons

Winners at Greater Chicago, Ill. State, Peoria, Quincy, Monmouth, etc.

Special Sale of Cockerels and Pullets

from winners at the above shows
Write me your needs
D. L. WARNER LITTLE YORK, ILL.

Brookside White Wyandottes

American Exhibition Breeders' Egg-Laying Contest and also Missouri Egg-Laying Contest Winners. Cockerels from stock related to these winners \$3 and up. No pullets for sale. Catalog free.

Brookside Farm, G. W. Schottman, Prop. Montrose, Ill.

Natural Hen Incubator \$3



No freight to pay. Actual hen controls everything. No lamp, no costly mistakes. Best hatcher in the world. Over 850,000 in use.

J. M. Payne, Ill., writes: "It is the best thing I ever saw for hatching chicks."

Another: "I got 607 chicks from 640 untested eggs."

Thousands of other testimonials. Agents Wanted.

To reach the million mark in 1918 we will send you a Special Introductory Offer with our Free Catalog.

Natural Hen Incubator Co., Sta. H, Dept. 4, Los Angeles, Cal.

Special Sale of

Poultry Supplies

Incubators, Brooders, "Ready Built" Poultry Houses, feed and water dishes, lice killer, disinfectants and supplies of all kinds. Write for regular catalogue and Special Sale Bargain List No. 11.

CYCLE HATCHER CO.

Elmira New York

WHAT HENS NEED

Feed **CRYS-CO.**
a purified shell grit. 99% Pure Carbonate of Lime.
Hard, sharp and cubical, better than oyster shells, need no other grit, better results, cost 1c per pound. Ask your dealer, write for booklet.
W. A. HUBBIE & CO., St. Louis, Mo.

White Orpingtons Champions of New England

Winners at Boston and largest shows past five seasons. Fine show stock and breeders for sale. Send for list.

JOHN R. JOHNSON, South Windham, Maine.
Mention the American Poultry Journal when writing to advertisers.

Orpingtons

**BUFF
WHITE
BLACK**

There's only room for truth in this ad. Eighteen years of successful breeding; hundreds upon hundreds of First Prize Winners furnished customers to date; an earnest desire to serve your best interests liberally and still richer quality in abundance to offer now, is my present message to you. Egg-bred Breeding and Exhibition Birds for any competition. Engage them now. Special values this month. Liberty Bonds or W. S. Stamps accepted in payment. Buy Byers Orpingtons. Their distinct superiority is demanded for success nowadays.

C. S. BYERS

(Active Orpington Specialist 18 Years)

Hazelrigg, Indiana

their names may be placed on our mailing list. The following is a complete list of our judges secured to date: J. H. Drevinstedt, James A. Tucker, E. C. Branch, Walter Burton, Harlo J. Fiske, Russell F. Palmer and V. O. Hobbs. Entries will close November 15 and we suggest that you write the secretary for your premium list now.

A Branch of the A. P. A. in Mexico.

We are pleased to announce that there has been organized in Mexico the first National Poultry Association and that the same has become affiliated with the American Poultry Association, and will bear the same relation as our state organizations. The new associa-

Funk Egg Farm Cockerels

S. C. W. L. TOM BARRON 1918 hatched males from my full blood pens, ready for delivery after September 1. All these birds are from HIGH EGG RECORD TRAP-NESTED females. Prices \$2.50 up. Write for free booklet giving prices and description for full breeding stock.

FUNK EGG FARM

LYLE W. FUNK, Owner

Box 38

BLOOMINGTON, ILL.



**THE OLD RELIABLE
LAMBERT'S
DEATH TO LICE**

has been used over 30 years by

**Successful Poultrymen
Because
It Insures
Clean Fowls**

Is just the thing for sitters, as it does not harm eggs or chicks. Keep your hens free from lice and they will thrive and be profitable. 100 oz. \$1.00; 48 oz. 50 cts., 15 oz. 25 cts. Large sample of Powder or Head-lice Ointment 10 cts. "Secrets of Success with Poultry" by D. J. Lambert for 2c stamp.

THE KLEIN-LAMBERT CO., 601 Traders Bldg., Chicago



Quality Bred-to-Lay S. C. W. Leghorns

exclusively. Tell us what you want and get summer prices on all breeding stock. Our catalog is free. Get one.

The Elliott Poultry Farm

Route 7, Box 87, Mansfield, Ohio

BANTAMS

America's Finest Bantams. 40 varieties. Game and Ornamental. Shipped on approval. Winners at the largest shows. Stock for sale. Prices reasonable. Cat. 2c. Choice Golden, Silver and Ring-neck Pheasants, Pit Games and Fancy Dogs. F. C. WILBERT & Co. Grand Rapids, Mich

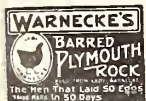
S. C. W. LEGHORNS LIGHT BRAHMAS ROUEN DUCKS

Eggs and Stock of above varieties.

C. C. NYE, R. R. 1, Box A, HARRISTOWN, ILL.

Rockdale WHITE ROCKS

Booking orders for show birds. Breeders half price. DEYOE'S Station 1 DODGEVILLE, WIS.



M. H. Warnecke

216 S. 10th Avenue

Maywood - - Illinois

Summer Sale of Hens

at bargain prices. You can't overlook this sale. THE WINNING KIND. : : BUFF ORPINGTONS. T. W. ROGERS Box A LAMONT, IOWA

Campbell's "Never-Wear" Judging Stick is what you need. Made of telescope brass tubing. Nicely nickeled. Special this month, \$2 each. C. A. Campbell, 1913 W. 59th St., Chicago

tion, "Avicola Mexicana," is growing and it is confidently believed that it will become one of our largest and most enterprising affiliated associations.

Secretary E. B. Campbell is to be congratulated upon her success in introducing the American Poultry Association into Mexico and we trust that the fanciers of the United States will co-operate with the Asociación Avicola Mexicana in promoting the friendliest relations and that all will aid in improving the varieties of poultry in Mexico and also in promoting a number of local poultry shows as well as one big international show. The gentlemen interested in the organization of the Mexican association are all men of affairs and are willingly doing their part to promote more and better poultry in Mexico.

The officers of the first national poultry organization in Mexico are: Rudolfo Guerrero, secretary executive board; J. Martinez Reding, elective member executive board; Francisco A. Cano, vice-president executive board; Juan Pablo Cazaree, president executive board; Luis Antonio Franco, election commissioner; Gullermo C. Prieto, vice-president; Orlando Avenue, president; Lesneis Perez Zuniga, secretary; Ing. Servero Esperza, treasurer.

For further information address the secretary, Lesneis Perez Zuniga, Ahuacatitla, 1 Atzacapetzalco, D. F., Mexico.

Pennsylvania Poultrymen Show Great Enthusiasm.

It is a great thing to get poultrymen together to discuss their problems and bring about the needed "class feeling." Poultry shows and field meetings are the source of tremendous inspiration, create and maintain enthusiasm. And they afford most favorable opportunities for the making of pleasant acquaintances and the development of the get-together spirit, the basis of the necessary co-operation upon which a bigger and better poultry industry is being erected.

One of the most successful field meetings of the year was held August 8 by the Delaware County Poultry Association, one of Pennsylvania's live organizations of poultry growers. This was an all-day meeting, and in spite of the intense heat some seven hundred people attended one or the other of the two sessions. Enthusiasm and interest ran as high as the thermometer, and the latter tried to make a new record.

The program was an exceptionally strong one, carrying the names of speakers who are national figures in the industry.

It would be difficult to select a place better suited for a meeting of this kind than the Pratt Food Company Experiment Farms, near Morton, Pa. This large establishment is finely equipped with buildings of varied kinds and all the up-to-date furnishings one would expect to find on a modern poultry plant. The hundreds of interested visitors were given full access to all buildings during the day and so learned much of value which they can apply to their own work.

Superintendent Thomas G. Samuels was everywhere, exhibiting his cherished birds and answering innumerable questions.

The program was carried thru without a hitch. Careful provision had been made for the comfort of all visitors, thanks to the efforts of President J. S. Keller of the Pratt Food Company, and of Mrs. and Miss Keller, who were tendered a vote of thanks by the association.

Let us have more meetings of this character. They are a boon to the industry as a whole and to the individual poultryman.

Nebraska State Show.

The Nebraska State Poultry Association announces thru this journal to the poultry public that extensive plans are now in operation to make the Nebraska State Poultry Show of 1919 the greatest in its history.

Liberal premiums in cash and trophies will be given to every winner and all are of sufficient importance to attract any fancier or breeder in the country.

Last year this association held the largest and best show west of Chicago, and will this year exceed any previous effort.

This association is an incorporated state institution and money is appropriated to carry on the development of the poultry industry of the state. Every show held by the State Poultry Association for thirty-three years has been a complete success.

No breeder can afford to miss this real quality show, which will be held at Holdrege, Neb., beginning January 20, 1919. Write for full particulars to M. G. Scudder, Sec'y, Kearney, Neb.

COLISEUM GETS WHITE WYANDOTTE CLUB MEETING.

\$150 in Cash Prizes.

The National White Wyandotte Club will hold its annual meeting at the Coliseum Show, Chicago, December 3-8. There is \$150 in cash offered on this variety. Every White Wyandotte breeder in the country should ar-

range to exhibit and personally attend this meeting. You owe it to the Coliseum; you owe it to your club, and above all else, you owe it to this popular variety that is making such wonderful egg records in the laying contests in all parts of the world. Write today for premium list to Theo. Hewes, secretary, Indianapolis, Ind.

The Coliseum Show, Chicago, Announces Judges.

Regardless of the increase of rental and many other handicaps that have been placed on the management, the Coliseum Show will be held December 3 to 8, as advertised. The Garden Show will be held late in January, as we understand, getting away from the holiday rush of express that has been more or less of a handicap to both the show and exhibitors. Eastern fanciers desiring an early winning will do well to take advantage of this great western sales show, as there will be some six weeks intervening between the close of the Coliseum Show and the opening of the Madison Square Garden Show. Coming as we do on the same dates as the International Stock Show, more than 100,000 stockmen from all parts of the world will be in Chicago on that date. They are liberal buyers and always looking for the best in fancy poultry.

Following is a list of judges selected to award the prizes, together with the classes they will pass on. There may be some slight changes in this list, but in the main they will stand as listed.

James A. Tucker, Rhode Island Reds, Barred Rocks; exhibition males, cockeriei bred females and cockeriei bred pens. W. W. Henderson, Barred Rock exhibition females, pullet bred males and pullet bred pens. A. F. Kummer, White Plymouth Rocks and White Orpingtons. Harry Adkins, Partridge Rocks and Partridge Wyandottes. Leo A. Lee, Columbian and Silver Penciled Rocks, Columbian and Silver Penciled Wyandottes. Leonard Rawnsley, Buff Orpingtons and all Sussex. George Greenwood, Black and Blue Orpingtons. Charles McClave, White and Black Minorcas, all Anconas and Hamburgs. D. W. Young, all White Leghorns. Herman Rikhoff, Buff, Black and Silver Leghorns

Uncomfortable		Joram's Lice Rid
Hens		Lice Rid
Never		Keeps Them
Lay		Comfortable.
One Size	3 Ounce 50 Cts.	Directions on every can

THIS STUFF WORKS!

What poultry keeper can say that his flock is free from lice? These abominable vermin take all the pleasure and profit out of poultry keeping—they make the hen uncomfortable and money—they kill the chicks—they even kill the grown hens. It has been said by an authority that lice are responsible for more dead birds than any other enemy of poultry.

JORAM'S LICE RID KILLS THE LICE

It is a remedy for lice that never fails to work. It kills lice, and it prevents lice from getting onto the birds afterwards. JORAM'S LICE RID will kill HEAD LICE on CHICKS.

EASILY APPLIED

JORAM'S LICE RID is not like the other lice killers on the market—you KNOW they don't work—but JORAM'S goes after them in a "DIFFERENT" way. Vermin have a "base" of operations, just like submarines. You apply JORAM'S to the "base"—and the lice never move from there. That's where they die.

JORAM'S LICE RID IS ABSOLUTELY GUARANTEED to do the work, if directions are followed, or money refunded.

CHEAP It costs less than 1 cent per bird to apply JORAM'S LICE RID, and it lasts the rest of it. You need this key to success in poultry raising. You need it now. One size, 3 ounces for 50 cents.

G. L. DU BOIS, Distributor, COBDEN, ILLINOIS.

A SURE DESTROYER IS

Licene

BECAUSE—

LICENE is LIFE to the chicken and DEATH to lice.

LICENE is applied twice a year; kills lice and nits and cleans Scaly Legs more effectively than any other known remedy.

LICENE is easy to handle and easy to apply.

LICENE costs less and accomplishes more.

100% GUARANTEE

If LICENE does not destroy every louse and "nit" or does not clean Scaly Legs, we will, within 30 days, refund your money and no questions will be asked.

Price 50 cents a tube, enough for about 150 to 200 birds. Delivered by mail. The Licene Co., 1500 Pontiac Bldg., Chicago

and Buff Minorcas. W. G. Warnock, all Brown Leghorns. Fred Shellabarger, Light Brahmas, cocks, pullets and young pens; all Langshans and all Cochins. Charles Balch, Light Brahmas, cockerels, hens and old pens. Charles Brendt, all Cornish. George Wells, Keeler and Black Wyandottes. Charles V. Keeler, Buff Plymouth Rocks, Silver, Buff and Golden Wyandottes. H. A. Pickett, all turkeys, all water fowl, all Polish, Blue Andalusians, Buttercups and Buckeyes. T. J. Roundtree, all Campines, all non-standard varieties. R. P. Krum, all Bantams.

Pet Stock Judges—Charles Gibson, John C. Fear and James E. Young. Others may be added to the pet stock list.

The premium list is now ready for mailing. Entries close November 15. Headquarters for show, Lexington Hotel, Chicago. Address of secretary until October 15, Indianapolis, Ind.; after October 15, Lexington Hotel, Chicago.—Theo. Hewes, Secretary.

The National Rose Comb White Leghorn Club offers to its members only, and providing there is competition, handsome special certificates on Rose Comb White Leghorns as follows: one each to best shaped male, best shaped female, best colored male, best colored female, champion male, champion female, and best display; also special silk badges to champion male and champion female.—J. M. Chase, secretary, Walkkill, N. Y.

SHOW DATES

This list has been compiled from information received from secretaries or judges. If the dates of any poultry show in which you are interested do not appear hereunder, kindly have the secretary mail the necessary information to us and same will be published in our next issue.

ARIZONA.

Nov. 11-16, 1918. Arizona State Fair, Phoenix. A. P. A. Show. H. G. Powers, sec.

ARKANSAS.

Dec. 16-20, 1918. Carroll County Poultry & Pet Stock Assn., Eureka Springs. A. P. A. Show. J. J. Buell, Green Forest, sec.

CALIFORNIA.

Nov. 20-23, 1918. Santa Clara Valley Poultry Assn., San Jose. A. P. A. Show. Chas. R. Harker, sec.; Wm. H. Russell, judge.

Dec. 9-14, 1918. Los Angeles Poultry Assn., Los Angeles. W. H. Hocking, sec.; O. L. McCord, Harlo J. Fiske, W. S. Russell and W. M. Coats, judges.

FLORIDA.

Nov. 26-Dec. 5, 1918. Jacksonville Poultry Assn. Held in connection with Florida State Fair and Exposition, Jacksonville. A. P. A. Show. R. C. Morgan, 2209 Market St., sec.; Chas. Nixon and W. P. Woodworth, judges.

GEORGIA.

Nov. 11-16, 1918. Augusta Poultry Assn., Augusta. A. P. A. Show. R. L. Young, sec.

IDAHO.

Nov. 7-15, 1918. Lewiston Valley Poultry Assn., Lewiston. A. P. A. Show. R. G. Bailey, sec.

Jan. 6-10, 1919. Idaho State Poultry & Pet Stock Assn., Boise City. A. P. A. Show. Belle Silversmith, sec.; W. M. Coats, judge.

ILLINOIS.

Nov. 20-24, 1918. Madison County Poultry Assn., Collinsville. A. P. A. Show. Walter Smith, sec.; D. T. Heimlich, judge.

Nov. 27-Dec. 1, 1918. Illinois-Missouri-Kentucky Poultry Assn., Cairo. A. P. A. Show. T. D. Windrom, 826 27th St., sec.; D. T. Heimlich, judge.

Nov. 28-Dec. 1, 1918. Quincy Poultry & Pet Stock Assn., Quincy. A. P. A. Show. A. D. Smith, sec.; Johnston and Hale, judges.

Dec. 3-6, 1918. Jackson County Poultry & Pet Stock Assn., Murphysboro. D. Schwaerzel, sec.

Dec. 3-8, 1918. Coliseum Poultry Show, Chicago. Theo. Hewes, Indianapolis, Ind., sec.

Dec. 9-14, 1918. Decatur Poultry Show, Decatur. John Starwalt, sec.; Geo. A. Heyl and Charles McClave, judges.

Dec. 9-14, 1918. La Salle County Poultry Assn., Streator. A. P. A. Show. F. W. Breimer, sec.; J. A. Leland, judge.

Dec. 9-14, 1918. Milledgeville Poultry Assn., Milledgeville. A. P. A. Show. C. A. Straka, sec.

Dec. 9-14, 1918. Williamson County Poultry & Pet Stock Assn., Johnston City. G. W. Felts, sec.

Dec. 11-15, 1918. Jo Daviess County Poultry & Pet Stock Assn., Galena. A. P. A. Show. George Steyer, sec.; T. J. Roundtree, judge.

Dec. 27-Jan. 2. Chicago Poultry Breeders' Assn., Chicago. A. P. A. Show. D. E. Hale, 349 W. 65th St., sec.; Tucker, Leland, Dagle, Palmer, Smith, Struble, Tormohlen, judges.

Dec. 30-Jan. 3. Northern Illinois Poultry

ANNOUNCEMENT

Smith's White Leghorns

Purchased by C. R. Hopkins, Osage, Ia.

THE entire flock, business, good will, etc., of Smith's Strain White Leghorns, as bred for several years by Eugene Smith, of Aurora, Illinois, has been purchased by C. R. Hopkins, of Osage, Iowa, who has successfully bred this strain for the past three years and made sensational winnings at important Western shows. Mr. Hopkins knows the quality of this strain, and how to breed them, and will be glad to serve Mr. Smith's old customers and such new ones as want the best in White Leghorns. This strain has produced more winners at Chicago Shows during the past eight years than any other, **bar none**, and the young stock this year is better than ever—and that is going some. Address all correspondence and requests for catalog or prices to

C. R. HOPKINS, Route A2, OSAGE, IOWA

THE MORRIS WHITE ORPINGTONS

(THE PROVEN LEADERS)

Begin the show season 1918 by going over the top to a glorious start, winning at Ohio State Fair, Columbus, with 8 entries, 1st cock, 1, 3 hen, 1, 2 cockerel, 1, 2 pullet, 1st pen.

Michigan State Fair, Detroit, 11 entries, 1st cock, 1, 2, 3 cockerel, 1, 2 hen, 1, 2, 3, 4 pullet. At both these shows, held on the same dates, competition was very keen, history again repeats itself, line breeding tells the tale, both in the show room and laying contest our birds excel in type, color, size, head points, and prolific egg laying.

Our pen of pullets in the egg-laying contest of Leavenworth, Kansas, has laid 144 more eggs than all other Orpingtons competing. Pullet No. 273 led all competitors for the first five winter months, defeating 551 birds of all standard varieties.

We have hundreds of show birds and breeders of this dual purpose strain ready for the show room, laying contests, and breeding pens.

Remember, the Morris White Orpingtons have won more points than any other three exhibitors combined at the last three Madison Square Garden Shows. Engage the Proven Leaders NOW and make sure of winning the blue.

MORRIS POULTRY FARM H. Rawnsley Manager LEBANON, OHIO

SINGLE COMB WHITE LEGHORNS

Winners of Every First Prize Panama-Pacific Exposition

Winners Yesterday—Today—Tomorrow

THE ACME OF HIGH-CLASS LEGHORNS

Trap-nested for high egg production; Pure-blooded and Standard Type

The Highest Goal in Poultrydom

OUR EXHIBITION BIRDS WILL WIN FOR YOU IN ANY SHOW

WE GUARANTEE THEM TO WIN

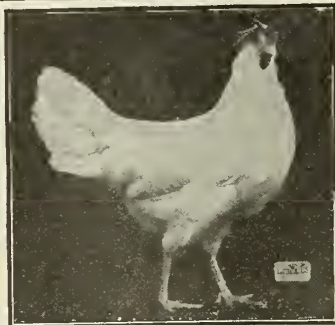
Our four to five months old breeding Cockerels are now ready for delivery; they are Typy, sturdy and will sire egg producers.

RANCHO DEL MARTINO

P. O. Box N

MRS. E. B. MARTIN

Downey, California



First Hen, Dallas, Texas, 1916

SACRIFICE SALE

On account of shortage of labor and demands of other business, I must reduce my flock, and sell males and females at half real value.

Best Laying Strain of Leghorns in the South

One customer writes: "The pullets I have are as good for my purpose, and on a flock average, as any in the world." In the four winter months of 1917-18, 85 pullets averaged more than 60% egg yield.

My pen was first in the North American Laying Contest in May and in July, against leading English and American breeders.

Have won at Memphis, Tenn.; Little Rock, Hot Springs, etc., shows repeatedly.

Fourche Mountain Poultry Farm, Little Rock, Arkansas

Cummins Ratcliff, Owner, R. F. D. 11



TYPE TELLS

That is one of the reasons why Sunnyfields Farm, Wallingford, Connecticut

are ready to win for you. We have the best in

Wh. Orpingtons : S.C.R.I. Reds : Wh. Laced Red Cornish

Our HALF PRICE SALE is now on. Send for catalog.

KEELER'S WHITE WYANDOTTES

Five Firsts Chicago

The World's Greatest Strain

Egg record 200 to 273, 2000 Cocks, Hens, Cockerels and Pullets ready to win for you. Book your orders now for winter show birds. 64-page instructive Art Catalogue FREE. (3 purple stamps appreciated.)

CHAS. V. KEELER, R. F. D. 11, Winamac, Ind.

Assn., Belvidere. A. P. A. Show. Wm. W. Shaw, sec.; Chas. V. Keeler, judge.
 Jan. 3-8, 1919. Illinois Poultry Breeders' Assn., Carbondale. A. P. A. Show. State Show. A. D. Smith, Quincy, sec.; McCord, Hale, Johnston, Heimlich, Leland, Heyl, judges.
 Jan. 7-10, 1919. Buckley Poultry Assn., Buckley. A. P. A. Show. W. H. Blanken, sec.; J. C. Johnston, judge.

COMMON SENSE

STOP
Experimenting

—Use Feed
That's Guaranteed

Experimenting on feeds is costly and sometimes disastrous—you know that.

Use Common Sense once—RESULTS—more eggs and healthier birds—then you'll be satisfied to cut out experimenting, for Common Sense will exactly meet your ideas of the ideal feed, just as it has for thousands of other experienced poultry breeders.

Common Sense Scratch Feed and Egg Mash

are guaranteed to feed the whole hen and the whole egg. A written guarantee in every bag of Common Sense Feed—if you're not satisfied, we'll buy it back. Tell us where to send samples and prices. Our Baby Chick and Developing feed is guaranteed, too.

The **FAMABELLA**
COMPANY, Inc.

Dept. 5

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River Ave.
DETROIT
MICH.



INDIANA.

Nov. 26-Dec. 1, 1918. La Porte County Poultry Assn., La Porte. A. P. A. Show. A. F. Wegner, sec.; Chas. V. Keeler, judge.
 Jan. 14-19, 1919. South Bend Poultry & Pet Stock Assn., South Bend. A. H. Studebaker, sec.; Wm. Wise, judge.
 Jan. 27-Feb. 1, 1919. LaFayette Poultry Club, LaFayette. A. P. A. Show. S. J. Shaw, sec.; Frank W. Travis, judge.

IOWA.

Nov. 4-9, 1918. Iowa Poultry & Pet Stock Assn., Des Moines. A. P. A. Show. Anthony Stocker, 1508 Arlington Ave., sec.; Jas. A. Tucker, E. C. Branch, H. A. Bittenbender, judges.

Nov. 25-29, 1918. Nishna Valley Poultry Assn., Shenandoah. A. P. A. Show. R. B. Murphy, sec.; Dagle and Hale, judges.

Dec. 11-14, 1918. Boone County Poultry Assn., Boone. F. D. Wheeler, sec.; Mr. Atkins, judge.

Dec. 12-16, 1918. Eastern Iowa Poultry Fanciers' Assn., Davenport. A. P. A. Show. H. C. Goetsch, sec., 717 W. 6th St.; Johnston and Bittenbender, judges.

Dec. 16-20, 1918. Southwestern Iowa Poultry Assn., Clarinda. A. P. A. Show. Mrs. James McNeerney, Coin, Ia., sec.; F. H. Shellabarger, judge.

Dec. 17-20, 1918. Maquoketa Fanciers' Assn., Maquoketa. A. P. A. Show. W. R. Knight, sec.; H. W. Atkins, judge.

Dec. 17-20, 1918. Cedar Valley Poultry Assn., Osage. A. P. A. Show. C. R. Hopkins, sec.; H. A. Bittenbender and W. H. Lapp, judges.

Dec. 18-21, 1918. Boyer Valley Poultry & Pet Stock Assn., Woodbine. A. P. A. Show. G. H. Humphrey, sec.

Dec. 18-21, 1918. North Iowa Poultry Assn., Charles City. A. P. A. Show. E. J. Blumenshine, sec.; G. D. Holden, judge.

Dec. 30-Jan. 3. Muscatine County Poultry Assn., Muscatine. A. P. A. Show. J. C. Collins, sec.; H. C. Dipple, judge.

Jan. 3-8, 1919. Dubuque Poultry Assn., Dubuque. A. P. A. Show. John Ball, 280 W. Locust St., sec.; H. A. Bittenbender, judge.

Jan. 6-11, 1919. Burlington Poultry Assn., Burlington. A. P. A. Show. Walter Reppert, 1009 S. Leebrecht St., sec.; Tucker, Shellabarger, Sheetz, Atkins, judges.

Jan. 13-18, 1919. Inter-State Poultry Assn., Sioux City. A. P. A. Show. E. L. Vennard, 2418 Cypress St., sec.; Harry Atkins, judge.

KANSAS.

Dec. 9-14, 1918. Lyon County Poultry Assn., Emporia. A. P. A. Show. F. J. Horton, sec.

Dec. 10-13, 1918. Leavenworth Poultry Assn., Leavenworth. A. P. A. Show. Chas. M. Swan, sec.; A. T. Modlin and R. F. Palmer, judges.

Jan. 6-11, 1919. Kansas State Poultry Breeders' Assn., Topeka. A. P. A. Show. Thomas Owne, Route 7, sec.; Branch and Hobbs, judges.

LOUISIANA.

Dec. 3-5, 1918. Northwest Louisiana Poultry Assn., Mansfield. A. P. A. Show. J. B. Anthony, sec.; C. P. Van Winkle, judge.

MICHIGAN.

Jan. 15-21, 1919. Michigan Poultry Breeders' Assn., Detroit. A. P. A. Show. F. M. Crowe, Crossover, sec.; Cosh, Tormohlen and Hale, judges.

MISSOURI.

Nov. 14-17, 1918. Franklin County Poultry Assn., Washington. A. P. A. Show. D. W. Braid, Union, sec.; C. A. Emry, judge.

Nov. 20-23, 1918. Concordia Poultry Show, Concordia. Otto W. Oetting, sec.; E. C. Branch, judge.

Nov. 25-30, 1918. Greene County Poultry & Pigeon Assn., Springfield. O. F. Smith, 1954 N. Jefferson St., sec.; M. L. Andrews, judge.

Dec. 3-5, 1918. Pike County Poultry Assn., Louisiana. C. H. Winn, sec.; C. T. Patterson, judge.

Dec. 3-7, 1918. Missouri State Poultry Show, St. Joseph. Fred Crosby, Mt. Grove, sec.; E. C. Branch, Walter Burton, D. T. Heimlich, judges.

Dec. 11-14, 1918. Grand River Valley Poultry Assn., Trenton. A. P. A. Show. L. E. Ford, sec.; E. C. Branch, judge.

Jan. 13-18, 1919. Kansas City Poultry Show, Kansas City. A. P. A. Show. E. L. Noyes, sec.; Branch, McKlaskey and Southard, judges.

NEBRASKA.

Dec. 17-20, 1918. Fillmore County Poultry Assn., Fairmont. A. P. A. Show. L. Brown, sec.; Guy E. Schreff, judge.

NEW YORK.

Nov. 20-21, 1918. Cornwall Poultry Assn., Cornwall. A. P. A. Show. Seymour S. Hicks, sec.

OHIO.

Dec. 31-Jan. 5. Sandusky Poultry Assn., Sandusky. A. P. A. Show. W. W. Taylor, sec.; D. D. Whitaker, judge.

Jan. 7-13, 1919. Dayton Fancy Feather Club, Dayton. A. P. A. Show. C. D. Forney, sec.; Zimmerer and Young, judges.

PENNSYLVANIA.

Jan. 7-11, 1919. Johnstown Fanciers' Assn., Johnstown. G. Ray Johnston, sec.; J. E. Weaver and P. A. Schied, judges.

Jan. 20-25, 1919. Poultry Exhibition of Pittsburgh, Motor Square Garden, Pittsburgh. A. P. A. Show. J. L. Pfeuffer, sec.

RHODE ISLAND.

Nov. 12-14, 1918. South Kingstown & Narragansett Poultry Assn., Wakefield. A. P. A. Show. Geo. E. Harvey, sec.; D. J. Lambert, judge.

Dec. 4-7, 1918. Rhode Island Poultry Assn., Providence. A. P. A. Show. Wm. I. Brown, 89 Canal St., sec.; Lambert, Allen, Cook, Benson, Glasgow, Woodward, Twombly, judges.

SOUTH CAROLINA.

Nov. 20-23, 1918. Greenville Poultry Assn., Greenville. J. M. Jordan, sec.; Chas. Nixon, judge.

SOUTH DAKOTA.

Dec. 31-Jan. 3. Northwest Poultry Assn., Watertown. A. P. A. Show. G. Paul Pitt, sec.; Geo. D. Holden, judge.

UTAH.

Jan. 13-19, 1919. Weber County Poultry Assn., Ogden. A. P. A. Show. W. W. Shaw, Box 364, sec.; Jas. A. Tucker, judge.

WASHINGTON.

Dec. 31-Jan. 4. Tacoma Poultry Assn., Tacoma. A. P. A. Show. Harry H. Collier, sec.; W. M. Coats, judge.

WEST VIRGINIA.

Jan. 13-18, 1919. Huntington Poultry & Pet Stock Assn., Huntington. A. P. A. Show. George Parent, sec.; Walter C. Young, judge.

WISCONSIN.

Nov. 27-Dec. 1, 1918. Greater Milwaukee Poultry Breeders' Assn., Milwaukee. A. P. A. Show. John F. Marvin, 2807 Wright St., sec.

Dec. 3-8, 1918. Watertown Poultry & Pet Stock Assn., Watertown. A. P. A. Show. Thos. J. Berto, sec.; George Hackett, judge.

Dec. 4-9, 1918. Western Wisconsin Poultry & Pet Stock Assn., La Crosse. A. P. A. Show. J. E. Kircheis, sec.; Roberts, Hoffman and Hess, judges.

Dec. 5-8, 1918. Fond du Lac Poultry & Pet Stock Assn., Fond du Lac. A. P. A. Show. H. L. Mabie, sec.; Geo. M. Wells, judge.

Dec. 10-13, 1918. South Central Wisconsin Poultry Assn., Albany. Cal Broughton, sec.; W. E. Stanfield, judge.

Dec. 11-15, 1918. Central Wisconsin Poultry Assn., Wausau. A. P. A. Show. Chas. W. Porath, Box 83, sec.; Jas. A. Tucker, judge.

Dec. 12-15, 1918. Manitowoc Feathered Stock Assn., Manitowoc. A. P. A. Show. A. P. Scherian, sec.; Geo. A. Wells, judge.

Dec. 13-15, 1918. Ozaukee County Poultry Assn., Cedarburg. F. W. Hilgen, sec.; Jas. E. Greenwald, judge.

Dec. 29-Jan. 1. Douglas County Poultry Assn., Superior. A. P. A. Show. John Tyson, 2125 Hammond Ave., sec.; W. H. Laabs, judge.

Jan. 6-10, 1919. Wisconsin Poultry Assn., Madison. A. P. A. Show. J. G. Halpin, sec.; Hackett and Greenwood, judges.

WYOMING.

Dec. 12-14, 1918. Northern Wyoming Poultry Assn., Sheridan. A. P. A. Show. W. L. Wright, sec.

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State Show**
GREATEST SHOW
WEST OF CHICAGO

ATTRACTIVE premiums and specials in cash. \$5,000 appropriated by the State for use in conducting this exhibition. Held in a magnificent auditorium at Holdrege, Neb., January 20 to 24 inclusive.

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ever saw. First prize winners at Madison Square Garden, N.Y.; Palace, Chicago; Kansas City; World's Fair. Two pullets at Mountain Grove laid 229 and 201 eggs each. Get my catalog.

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**WON EVERY FIRST PRIZE OFFERED
at Kansas City Show. Pronounced by
Judge Drenstedt best class he
ever saw. First prize winners at Madison Square Garden, N.Y.; Palace, Chicago; Kansas City;
World's Fair. Two pullets at Mountain Grove laid 229 and 201 eggs each. Get my catalog.**

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WORLD'S
HIGHEST
PEDIGREE

COCKERELS and STOCK

**LEGHORNS, WYANDOTTES,
BUFF ROCKS and R. I. REDS**

MY BIRDS WIN CONTESTS and make world's records for eggs.

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SHEPPARD STRAIN ANCONA and Barren English Leghorn cockerels. Satisfaction guaranteed. A. R. Connor, Woodstock, Ohio. 10-12

ANCONAS—ANCONAS—Can furnish winners for any show. Frank W. Mains, Farmingdale, N. J. 10

R. C. ANCONA cockerels, combined exhibition and laying strain. \$3.50 to \$10. J. H. Wietor, 528 W. Bijou St., Colorado Springs, Colo. 10-12

S. C. ANCONA COCKERELS—Handsoms, vigorous breeders. Prize-winning pedigree. \$3 and \$5. A. O. Mathison, 608 So. 1st Ave., Maywood, Ill. 10

SOUTHARD'S SNOWDROP ANCONAS—Championship winners on both stock and eggs. Ask my customers. Breeders and show birds. Frank Southard, Ledford, Ill. 10-12

ANCONAS—Vigorous young stock, excellent laying strain. Fair prices. Graff Hubbard, Lock Haven, Pa. 10-11

SINGLE COMB ANCONAS—Select young breeders from 200-egg hens and \$50 Sheppard prize male. 1918 pullets began laying at 3 months, 3 weeks, 3 days old. Good cockerels, short on points, only \$3 each, five for \$12. T. H. Holmes, River Forest, Ill. 9

SHEPPARD'S FAMOUS ANCONAS—The World's Best. See display ad page 844. Ceell Sheppard, Berea, Ohio. 11-16-1yr

PRITCHARD'S GENETIC ANCONAS—Bred with care. Frank P. Pritchard, Naturalist-Breeder, Fairmount, Ill., Route No. A2. 11-17-1yr

S. C. ANCONA cockerels from extra good laying strain; 8-12 weeks old. Edw. Ripplow, Minster, O. 8-10

BANTAMS

BLACK COCHIN BANTAMS—Winners. Stock, \$3 up. Write. C. J. Parkhurst, 1101 State St., Utica, N. Y. 10

BANTAMS—BLACK ROSE COMBS and all varieties Cochins and Sebrights. New York, Chicago, Boston and Syracuse winners. Free circular. Wm. Rogers, Baldwin Ave., Oxford, N. Y. 10-12

ROSE COMBS—COCHINS—Exhibition quality. May-Bee Bantam Yards, 109 Forest Ave., Fond du Lac, Wis. 10

BANTAMS—ALL STANDARD varieties, \$1.50 each. For quick sale. H. C. Heyses, Whitewater, Wis. 10

GOLDEN SEBRIGHT BANTAMS—Little beauties, from prize-winners five shows. Stock reasonable. Lynn Stafford, Waucoma, Iowa. 10-11

HIGH-CLASS GOLDEN Sebright and White Japanese Bantams. Clyde Proper, Schoharie, N. Y. 10-12

BANTAMS, SILKIES, COCHINS, Brown Red Games, Rose Combs; \$2 each. Robert L. Hale, Shelbyville, Ind. 9-11

BANTAM SPECIALIST—Buff, Black, Partridge Cochins, Light and Dark Brahmas. I ship on approval. Circular free. Geo. C. Salmon, Port Dickinson, N. Y., Route 4. 1-17tf

BANTAMS—200 YOUNGSTERS. Black Reds, Red Pyles, Black Rose Combs. Ready September 1st. For the best, write C. L. Sibley, Wallingford, Conn. 9-11

BRAHMAS

LIGHT BRAHMA BREEDING and exhibition stock. Wonderfully good pullets reasonable. All stock trapnested and pedigreed. Putnam & Sons, Harvard, Ill. 9-11

LIGHT BRAHMAS—At Cleveland we won 1st and 2d cock, 1st hen, 1st cockerel, 1st pullet. Young and old stock for sale ranging in price from \$5 to \$10 each from my breeding pens. Geo. C. Wright & Son, 2335 Riverside Road, Lakewood, O. 5-18-tf

BUTTERCUPS

BUTTERCUP COCKERELS—Hiddenhurst strain. Six only, at \$2 each. A. E. Theohald, Archbold, Ohio. 10

BUTTERCUPS—YOUNG AND matured stock; the breed that you will eventually buy. Harry Daly, Maysville, Ky. 9-11

GOLD COIN BUTTERCUPS—O. B. Disenroth, Lawrence, Mich. 1-18-1yr

COCHINS

BUFF AND PARTRIDGE Cochins—Fine cockerel for sale. Wm. Moore & Son, Aurora, Ill. 10

CORNISH

MOHAWK STRAIN White and Dark Cornish. Starvation prices. Circular, stamp. C. D. Smith, Palatine, Ill. 10-11

WHITE CORNISH COCKERELS, \$5 each. Bred from first prize winners. L. J. Smith, Deep River, Conn. 9-11

WHITE LACED RED Cornish—Old and young stock. Sunnyfields Farm, Wallingford, Conn. 9-11

DOMINIKES

MY DOMINIKES WON more first prizes in competition than any Dominiques in the Northwest. Young stock from these birds and yearling hens for sale at reasonable prices. Am crowded for room. Lawrence Holsten, Columbus, Wis. 10

IF YOU WANT BIRDS that lay and pay buy the American Dominiques. Choice stock for sale. W. F. Gernetzky, Columbus, Wis. 10

DORKINGS

EGGS AT HALF PRICE remainder of season; \$2 per 13, \$3.50 per 26. From Westfall's champion Silver Gray Dorkings. No reserve. More first prizes, silver cups and specials at New York, Boston and Buffalo than all competitors combined. These are the chicks that grow two pounds at two months. A few choice birds for sale. No baby chicks. Watson Westfall, Sayre, Pa. 2-17-1yr

GAMES

INVADER PIT GAMES—Young trios, \$5.50. Box 347, Gary, Ind. 10-12

SILVER DUCKWING—Young stock, \$5 and up. If you are not looking for well bred stock, don't write. Geo. B. Williams, Lisbon, Ohio. 8-10

HAMBURGS

SILVER SPANGLED HAMBURGS. Black Diamond strain. Highest honors at Madison Square and leading shows of America. Eggs, \$3.00 and \$5.00 per 15. If you want the best and birds that can win in any competition, you should order stock or eggs from Will L. Clark, Sullivan, Ohio. 3-16tf

LAKENVELDERS

LAKENVELDERS—EVERLASTING layers. Supremely beautiful. State wants. Hermitage Farm, Millersburg, Ohio. 10-12

LAKENVELDERS—HANDSOME young fowls for sale. C. E. Patterson, Cardington, Ohio. 8-10

LANGSHANS

BIG BLACK LANGSHAN cockerels, from \$2 to \$10 each. Good ones. Ella White-wood, Hudson, Ill. 10

TRAPNESTED BLACK Langshans—200 to 275-egg strain. Settings, \$2 up. Catalog. Lorenz Co., Perryville, Mo. 10-12

BLACK LANGSHANS—Cockerels, \$2.50 and \$3.50; pullets, \$1.75 and \$2.50. Alvin Larson, Harmony, Minn. 10

WHITE LANGSHANS of quality stock for sale. Alonzo Tyner, Greenfield, Ind. 9-11

SOME FINE BLACK LANGSHAN cockerels, bred-to-lay strain. March hatch. Mrs. Ray Marr, Chatsworth, Ill. 9-10

S. C. WHITE LEGHORNS

MY SINGLE COMB WHITE Leghorns are bred by "Hogan System." Ten years' selection combines utility and beauty. 100 breeding and exhibition cockerels, hens, pullets, \$3 up. (Reference: this Journal.) Alba Farm, Jamestown, Pa., Route 40. 10-12

EGG FARM STRAIN (Pure English) S.C. White Leghorns—Northern Iowa grown, descendants from largest Leghorns in the world. With winter-laying habit bred right to the bone. 300-egg trapnested and pedigreed cockerels now \$3, \$4 and \$5 each and up. Fred Havig, Route 2A, Osage, Iowa. 10

SINGLE COMB WHITE Leghorn cockerels—Parent stock comes direct from birds that won blue ribbons at all the best shows in the Middle West. Have won firsts at the Missouri Egg Laying Contest. \$2 each. A. L. Ackerman, Rich Hill, Mo. 10-12

S. C. WHITE LEGHORN Cockerels—\$1.25 until December, then \$1.50. Mrs. P. W. Spilman, Bloomfield, Iowa. 10-11

SINGLE COMB WHITE LEGHORNS—Several hundred yearling hens and April hatched pullets, reasonable. Satisfaction guaranteed. Miller Poultry Farm, Box T, Lancaster, Missouri. 10-12

TOM BARRON WHITE Leghorn Cockerels—Four months old, \$1.50. E. C. Thode, Galena, Ill. 10

PULLETS—FROM MY beautiful strain. No better layers. Only 200 to spare this year. Price, \$2.25 each. Also a few hardy cockerels. St. Johnsville Poultry Farm, St. Johnsville, N. Y. 10

SINGLE COMB WHITE LEGHORNS—Young's Lowtalled cockerels, pullets, \$3. Meadow Farm, Coulterville, Ill. 9

SINGLE COMB WHITE Leghorns for sale. Dozen pullets, \$9 to \$15. Dozen yearling hens, \$15. W. R. Scrivner, Dahlgren, Ill. 10

PURE TOM BARRON Leghorn pullets. G. L. Poole, Garretttsville, O. 9-11

WHITE LEGHORN YEARLING hens, exceptional value, \$1.50 each; 12, \$15.50; 20, \$24.90. Also cockerels. Wm. Jacobs, Salem, O. 9-11

TOM BARRON'S ENGLISH Single Comb White Leghorn cockerels, pullets and yearling hens for sale, bred from stock with high egg records for generations. We trapnest every layer every day in the year. Your money back and we pay express charges both ways if they fail to satisfy you. Write for prices and description. Bear Den Poultry Farm, Wheeler, Ill. 9-11

BUSINESS BRED S. C. White Leghorns. Chicks, eggs and stock. Catalog free. Slaty Ridge Poultry Farm, Box 12, Palmyra, Pa. 8-10

S. C. WHITE LEGHORNS—Large sized, 295-egg record. Eggs, \$2 per 15, \$7 per 100, \$12 per 200. Chicks, 20c each. Cockerels, \$3, \$5 and \$10 each. Prepaid. Mrs. E. R. Dees, Watonville, Ill. 8

PURE BARRON LEGHORN cockerels with pedigrees from 240 to 284. Large early hatched birds, full of life and vitality. We have several hundred to choose from and will guarantee to please you. Riverside Poultry Farm, Cambridge Springs, Pa. 8-10

ON ACCOUNT OF LABOR shortage I must sell flock of 700 S. C. White Leghorn yearling hens. Flock has been closely culled, and has made good record. Price, \$1.50 each. Henry Carter, St. Helen, Mich. 8-10

SUCCESS IN ANY BUSINESS depends to a great extent on the care you exercise in buying supplies. Read Sears-Roebuck's ad on pages 841-842. 10

S. C. BROWN LEGHORNS

FIRST SINGLE COMB Brown Leghorn cockerel, Illinois State Fair, 1918. 200 hens, \$16 dozen. Cocks, cockerels, \$1.50; red color, \$3; 4-5 point comb, \$5. Murl Edwards, Rockbridge, Ill. 10-12

R. C. BROWN LEGHORNS

KULP'S 242 STRAIN Rose Comb Brown Leghorns—May and April cockerels, \$2, \$3 and \$5 each. Mrs. M. N. Smith, Packwood, Iowa. 10-12

S. C. BUFF LEGHORNS

BUSINESS BEAUTY STRAIN—Genuine business beauties. Hen-hatched from large white eggs from mature, hardy, well marked, prolific layers. Outbred, pedigreed, farm raised. Both combs. Catalog. Joseph Benedict, Chevy Chase, Maryland. 10-18tf

S. C. BUFF LEGHORN cockerels—Heavily strain; \$3. Neva Smith, Fisher, Ill. 10-11

SINGLE COMB BUFF LEGHORNS—Pullets, year-old hens, cockerels. Write for circular of prices. Eli Risenberger, Box 26, Tiffin, Ohio. 10-12

BUFF LEGHORNS FOR 27 years—Oldest breeder in America. Cockerels and pullets for sale, the finest I ever offered. Jno. Quincy Dawson, Coshocton, O. 9-3

283-EGG BUFF LEGHORNS—Early hatched, \$1.25. Dr. Hume, Anadarko, Okla. 9-10

EGG-BRED BUFF LEGHORNS—Single Comb. Winners best shows. Laying contest leaders. Bargain breeders now. Lea Munger, De Kalb, Ill. 9-10

ROSE COMB BUFF LEGHORNS—Stock and eggs. Catalog. Howard J. Flisk, Falconer, N. Y. 3-18-1yr

R. C. BUFF LEGHORNS

ROSE COMB BUFF Leghorn cockerels, \$2.50 up. Buy now! Fred Luebke, Watertown, Wis. 10

BUFF MINORCAS

BUFF MINORCAS—The greatest general-purpose breed. Eggs. Cockerels from my 196-238-egg exhibition stock. Wendell R. Mortimer, Las Gatos, California. 10

BUFF MINORCA COCKERELS—\$2.50 apiece. Do not wait until spring and be disappointed on account of being sold out, as you were this spring. Fred P. Dietz, Grocer, Mt. Vernon, Ind. 10-12

BUFF MINORCAS—See display ad page 834. Walhalla Poultry Farm. 3-18-tf

WHITE MINORCAS

SINGLE COMB WHITE Minorca cockerels—19 years a White Minorca breeder. State what you want. Harry Leibold, Delaware, Ohio. 10-12

BLACK MINORCAS

SPLENDID BLACK MINORCA cockerels cheap. Also few hens. Cocks, vigorous, large egg strain. Henry Wallis, Delavan, Wis. 9-11

ROSE COMB BLACK Minorcas. Exhibition and utility stock, and eggs for hatching at all times. Send for our large catalog. G. A. Clark, Seymour, Ind. 6-17-1yr

WINNERS AT PANAMA and official 200-egg strain, National egg-laying contest, Missouri, up to 272. H. A. Kuhtz, Burlington, Wis. 2-18-1yr

SINGLE COMB BLACK MINORCAS—Cockerels, 4 months, \$1.50 each. Table Egg Farm, Lookout, Pa. 8-10

RHODE ISLAND WHITES

THE GREAT RHODE ISLAND White farm. Eggs, \$1 per 15. Rose and Single Comb stock, \$6 per trio; \$10 per pen. Catalog free. Henry Eichelmann, Waterloo, Ill. 9-11

RHODE ISLAND REDS

S. C. REDS—100 March and April pullets, many laying; \$3 each. See ad page 865. Sunnyfields Farm, Wallingford, Conn. 10-12

A SPECIAL SALE—S. C. Red cockerels (Nibert 200-egg strain). Good color, healthy free-range youngsters, weighing 4½ to 6½ lbs.; \$7.50 to \$10. Get your new blood now. Kiel Bros., Station L, Cincinnati, Ohio. 10

RHODE ISLAND REDS—Excellent cockerels from trapnested stock, 200-egg per year strain. B. E. Guither, Walnut, Ill. 10-11

SINGLE COMB REDS—Large, dark red cockerels and pullets of high quality. Henry R. Snapp, Greeneville, Tenn. 10-12

MEIHSNER'S RUBY REDS—Fifty choice cockerels, \$3, \$5 and up. R. C. Meihnsner, Walnut, Ill. 9-10

SINGLE COMB REDS—Big, dark red, early hatched. Heavy laying strain. Show or utility. Pullets and cockerels, \$2.50 each and up. Scarboro, Hillsboro, O. 9

PERRY'S SINGLE COMB Red on approval. Freed Perry, Ottawa, Ill. 8-10

AN EYE-OPENER—Sears-Roebuck's ad on pages 840-841. 10

WHITE ORPINGTONS

THE BEST WHITE ORPINGTONS—See ad page 865. Sunnyfields Farm, Wallingford, Conn. 10-12

WILL SACRIFICE White Orpington cock, hens, cockerels and pullets. No room to winter them. Won at Sheboygan and Wisconsin State Fair. Write me your wants. William A. Frey, Sheboygan, Wis. 10

PARKER'S TRAPNESTED Pedigreed 200-egg White Orpingtons. 300 hens, pullets and cockerels; also 319-egg cock. Catalog. J. S. Parker, Route 4-J, Plain City, Ohio. 10-12

SPLENDID WHITE ORPINGTON cockerels. Show or utility. 232-egg strain. March hatch. George Layman, Greenville, Ill. 9-11

LARGE PURE WHITE Single Comb White Orpington hens from Owen Farms best pens, \$3.50 each. A. Ramage, Plattsmouth, Neb. 9-10

PARTRIDGE PLYMOUTH ROCKS

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 844. 5-15-tf

OWN-LAND FARM'S Partridge Rocks—Boston winners. Circular. South Hammond, New York. 8-10

BARRED PLYMOUTH ROCKS

A FEW PARKS' bred-to-lay Barred Rocks—Yearling hens and June hatched pullets. Moving to city. A. Hoffmeyer, 1621 Hall Place, Indianapolis, Ind. 10

BARRED PLYMOUTH ROCKS—Excellent cockerels, trapnested stock, 200 to 250 eggs per year. Utility only. B. E. Guither, Walnut, Ill. 10-11

BRED-TO-LAY BARRED ROCKS exclusively—Parks' strain direct. Heavy winter laying stock. Beautiful, large boned, vigorous cockerels bred from best egg-producing blood lines, which will impress the lay on their offspring, \$5, \$6 and \$7 each. W. G. Meredith, Danvers, Ill. 10-12

WHITE PLYMOUTH ROCKS

WHITE ROCKS—Farm raised exhibition and utility stock. Southern winners. A. H. Davidson, Route 7, Ft. Worth, Texas. 10-12

NUZUM'S WHITE PLYMOUTH Rocks are good winter layers. Cockerels for sale. Monte Nuzum, Anderson, Ind. 10-12

FISHEL STRAIN White Rock cockerels, \$3. Edwin King, Coloma, Wis. 10

BUFF WYANDOTTES

BUFF WYANDOTTE BARGAINS—50 pullets and cockerels, April and May hatch, \$1 each if taken soon. Jerome Good, Jackson, Mich. 10

EGG-BRED BUFF WYANDOTTES—Winners last National Club Show. Bargain breeders now. Lea Munger, De Kalb, Ill. 9-10

GOLDEN WYANDOTTES

GOLDEN WYANDOTTES at reasonable prices. Write. C. C. Thomas, Sandusky, Mich. 9-11

COLUMBIAN WYANDOTTES

COLUMBIAN WYANDOTTES—Superior strain; Madison Square Garden and Boston winners. Choice breeding cockerels, \$5 up. Circular free. Satisfaction guaranteed. Gilbert Poultry Farm, Whittier Road, Haverhill, Mass. 10

PARTRIDGE WYANDOTTES

PARTRIDGE WYANDOTTES—Fine cockerels, \$2.50; trio, \$7; pen, \$10. E. H. Casey, Ewing, Ill. 10-12

WHITE WYANDOTTES

WHITE WYANDOTTES—Cockerels, hens, pullets, at \$2, \$3 and \$4 each. Show birds, \$5 each. Satisfaction guaranteed. A. J. Shannon, Route 6, Appleton, Wis. 10-12

FIFTY EARLY HATCHED White Wyandotte pullets, \$1.50 and \$2 each; cockerels, \$3. Heavy laying strain. E. Schaperkötter, Valley Park, Mo. 10

IMPERIAL WHITE WYANDOTTES—Lay, win, weigh. Bred primarily for high production. Also Standardbred to win and produce quality. Five choice pedigreed cockerels, \$8 to \$15. Eggs in season. Dr. H. H. Clayton, Bluffton, Ind. 10-12

WHITE WYANDOTTES—Stock and eggs for sale; write for price list. Earnest Massey, Mystic, Iowa. 4-18-1yr

WHITE WYANDOTTES—Four, five and six-months cockerels, \$1.50 up. A. Leabo, Walcott, Iowa. 10

WANTED—WHITE WYANDOTTE yearling hens or pullets. Mrs. Samuel Stoneburner, Wheaton, Ill. 10

FOR SALE—WHITE Wyandotte cockerels and pullets. Mrs. Samuel Stoneburner, Wheaton, Ill. 10

WHITE WYANDOTTES—Early cockerels and pullets. Beautiful form and finish. Guaranteed. Crest View Farm, Grand Chain, Ill. 10-12

WHITE WYANDOTTES—Early cockerels of beautiful form and finish. Big fellows. Fine for early shows. Purchase price and express charges refunded if dissatisfied. J. F. Garrison, Mt. Vernon, Ill. 9

DR. MANCHESTER, Pekin, Illinois, imported his Royal White Wyandotte foundation stock direct. Only fine breeders. Eat less grain than Leghorns and lay as many eggs, commencing when seven months old. A meat meal for eight people. 8-10

OWN-LAND FARM'S White Wyandottes (Regal-Dorcas). Circular. South Hammond, New York. 8-10

FEED—GOOD FEED—at low prices. See pages 840-841. 10

POLISH

THREE TO SIX DOLLARS pair—Six varieties Polish chicks. L. Leavitt, Smithfield, Ill. 9-10

SPANISH

WHITE FACED BLACK SPANISH—Winners at some of the largest shows in the country. J. R. Galloway, Elwood, Ind. 10-1

SEVERAL BREEDS

AFTER THE COUNTY FAIRS—October, I offer trio young S. C. W. Leghorns, Black Langshans, S. C. Black Minorcas; also old trio of W. Leghorns, Black Langshans, Black Minorcas, W. Polish Bantams and other kinds of "closing out" prices. W. Dane, Oshkosh, Wis. 10

THREE WHITE LEGHORN cockerels from the world record laying pen. One hen in pen laid 294 eggs. Also, only three Home-stead Silver Campine cockerels left. Geo. B. Grimshaw, Liverpool, N. Y. 10-11

SHOW QUALITY IN Dark Cornish hens and cockerels; White Orpington cocks, cockerels, hens and pullets; also Ancona cockerels. E. J. R. Meyer, 54 Custer St., Oshkosh, Wis. 10

FOR SALE—ON ACCOUNT of moving—Golden Pheasants, young and full plumaged; also Buff Cochins Bantams. Thomas Greaves, Farmingdale, Long Island, New York. 10

DUCKS

DALY'S STRAIN of Colored Muscovy ducks. A few choice young and mature drakes for immediate delivery. Harry Daly, Maysville, Ky. 9-11

INDIAN RUNNER DUCKS—Good laying strain, great producers; special bargain. Write for prices. Outlook Farm, Warren, Mass. Mrs. W. H. Hough. 8-10

GEESE

WHITE EMBDEN GANDERS — \$4 each. Sparling Sisters, Garden Grove, Iowa. 10-12

LARGE WHITE EMBDEN geese, \$4 each. A. Range, Plattsburgh, Neb. 9-10

ALL VARIETIES of GEESE, bred from winners at Panama-Pacific and Madison Square Garden. All varieties of dux. Dawson Bros., Franksville, Wis. 9-11

AFRICAN GEESSE—Pure breed. Cheap if taken soon. Write for prices. Outlook Farm, Warren, Mass. Mrs. W. H. Hough. 8-10

TOULOUSE AND WHITE Chinas. Fuller, Route 36, Peoria, Ill. 8-10

TURKEYS

AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our ad on page 844. 2-11

WILD TURKEYS from fine marked, vigorous stock. Prices reasonable. Geo. Veitengruber, Millington, Mich. 10

FOR SALE—BRONZE turkey toms and hens, \$10 each. Money returned if all are sold. Don't wait till express companies are burdened with Xmas. Order now and be safe. Aaron J. Felthouse, R. D. No. 2, Goshen, Ind. 10

AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 844. 2-15-11

GUINEAS

PEARL GUINEAS — Young stock, \$1.25 each. Reduced prices in lots of 25 or 50 birds. John Hass, Bettendorf, Iowa. 10-11

GUINEAS—LAVENDER, \$2 to \$2.25 each; Pearl, \$1. H. C. Heys, Whitewater, Wis. 10

PHASANTS

FOR SALE—Pure Mongolian Pheasants. C. W. Siegler, Bangor, Wis. 10

PIGEONS

LARGE RED CARNEAUX Pigeons, \$2 pair. Mated. Woodford Poultry Farm, Madisonville, Cincinnati, Ohio. 10-12

I OFFER GUARANTEED MATED Homers in any quantity at \$1 per pair. Beautiful White Homers, \$1.50 pair. Squab companies challenged to produce better stock at twice this price. Get my prices on Runts, Carneaux, Maltese hens and save dollars. Squab Manual, 25c. Charles A. Gilbert, 2210 Almond St., Philadelphia, Pa. 7

WANTED—5,000 HOMER or common pigeons. Pay at least 25c pair. Live Rabbits wanted. Going Light, Canker Cure 25c. D. Gilbert, 1128 Palmer St., Philadelphia, Pa. 8

WANTED—RUNTS, MONDANES, Kings, Hennies and Crosses. Pearson, 15618 Damon Ave., Cleveland. 8-10

RABBITS AND HARES

PEDIGREED BELGIAN HARES, \$2 up. 64-page book on rabbits, 25c. Woodford Poultry Farm, Madisonville, Cincinnati. 10-12

BELGIAN HARES—Also Dark and White Cornish. Stamp for prices or send fifteen cents for fine hare booklet and prices. W. B. Grinyer, Eleroy, Ill. 10-11

RAISE BELGIAN HARES for us. We supply stock and pay you \$5 per pair and express. Big profits—act now. Book and Contract, 10c. Nothing free. Wm. Dammann, Dept. 8, Egg Harbor, N. J. 10

FOR SALE—BELGIAN HARES—Registered and pedigreed. Also want to buy young hares from stock purchased of us; will pay 75c a pound. Plans and specifications of the Filder sanitary, self-cleaning rabbit hutch, 35c. Norwood Rabbitry, 4230 Allison, Norwood, Ohio. 10

BELGIAN HARES AND Mammoth Flemish Giants. Booklet on Hares, 10c. Canada's Rabbitry, 258 York, Denver, Colo 10-11

BELGIAN HARES—Get our quotations. Hare book and catalog, five stamps. Falling Poultry Farm, Lafargeville, New York. 9-11

MAGIC CITY RABBITRIES — Pedigreed Rufus Red Belgian hares. Satisfaction guaranteed. 1219 E. Willard St., Muncie, Ind. 9-10

RAISE BELGIAN HARES for me—I furnish all grades of stock at from \$2.50 up, and buy all you raise at 30 to 60 cents per pound, live weight. My famous instruction booklet and full particulars, 10c. None free. Frank G. Cross, 6433 Ridge St., St. Louis, Mo. 11-17-11

IF YOU COMMENCE with good stock and raise Belgian Hares, you will be able to buy War Stamps and Liberty Bonds. Help your country. Write Adolph Chliner, Forrest City, Ark. 8-10

OUR RABBIT and Pet-Stock Magazine shows you how to raise Belgian Hares, Flemish Giants and New Zealand Reds and where to buy and sell them for \$2 to \$15 each. Send 25 cents for four issues, or 10 cents single copy. American Breeders' Company, 132 Nassau Street, Dept. 74, New York, N. Y. 10

ORNAMENTAL

IN VIEW OF THE FACT that I am now serving my country in the Army and have no time to give to the care or supervision of my birds, I have decided to dispose of my entire stock of ornamental land and water fowl. This most excellent stock of pure-blooded birds, that I have taken years to collect, is offered to you at extremely reasonable prices. My flock includes Pheasants, English Ring-Neck, Silver, Golden, Lady Amherst and Reeves; Ornamental Ducks: Redheads, Canvasbacks, Bluebills, Mandarins, Spoonbills, Pintails, Green-winged Teal, Blue-winged Teal, Cinnamon Teal, Wood Ducks, White English Calls, Mallards, Black Mallards, and Gray English Calls. We also have Canadian Wild Geese, Egyptian Geese, California Valley Quail, Bobtail Quail, and dozens of varieties of pigeons. All orders or inquiries will receive the prompt personal attention of my farm manager, Mr. B. E. Rogers, and all shipments will be made without delay. Complete bargain list with prices will be sent on request. Write today. Send 25 cents for our instruction booklet, "Management and Care of Pheasants and Other Ornamental Powl." P. J. Sexton, Fair Oak Farms, Dept. A, Waukegan, Ill. 10-18-11

DOGS

FOX TERRIERS—ANY AGE. Some bred females. Best rat, pet or watchdogs. T. H. Kaldenberg, Pella, Iowa. 10-12

REGISTERED SCOTCH COLLIE puppies. Leghorn pullets. Catalog, stamp. Falling Poultry Farm, La Fargeville, N. Y. 10-12

REGISTERED FOX TERRIERS — Best blood lines in America. Chas. R. Dodd, Girard, Kas. 9-11

PEDIGREED COLLIE PUPS. Males, \$10; females, \$5. London Hope at stud, fee \$10. Plummer McCullough, Mercer, Pa. 9-15-11

INCUBATORS AND BROODERS

WANTED—CYPHERS OR Prairie State Incubator, No. 3; must be in first-class condition. Latest model. Wm. Clarke, R. 8, Mt. Vernon, Ill. 10

FOR SALE—HALL mammoth incubator, 3000-egg size; nearly new; good hatcher. W. I. Harrington, Brunswick, Ohio. 10

WANTED—BLUE HEN mammoth incubator. Westley Barlow, Sugar Grove, Pa. 10

FOR SALE—4500-egg Hall incubator; slightly used. Good as new. Pabst Stock Farm, Oconomowoc, Wis. 10-11

FOR SALE—WE ARE dissolving partnership and are offering: Six sections Candee incubators; one Simplex brooder, 1500-chick size; five Simplex self-feeders; shipping boxes for hatching eggs, 39-100-egg size, 47-50-egg size. These articles are all in good condition and prices are right. Write. Pendrey & Vance, R. 1, Wilmington, O. 10

FOR SALE—BARGAIN—One Candee Hot Water Incubator, good order, 5,000-egg capacity. Buy in time for fall custom hatching. Also feed mixer, 3-barrel capacity. Tanglewood Ranch, Rockville Centre, N. Y. 8-10

WANTED—BLUE HEN or Newtown incubators. Poultry Farm, Lock Box 222, Zealand, Mich. 8-10

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IT PAYS TO RAISE Canaries—Big demand; start at home; spare time. We show you how; very little capital necessary; high grade songsters; breeders furnished. Monarch Specialty Co., Evanston, Ill. 9-12

SILVER BLACK FOXES

CHOICE UNRELATED domesticated true Northeastern Canada Silver Black breeding foxes, in pairs. Reid Bros., Bothwell, Ontario, Canada. 8-1

PET STOCK

BEAUTIFUL ANGORA CATS and kittens, \$5 up. Stamp for reply. Bay View Farm, North Haven, Maine. 9-11

PATENT ATTORNEY

MEN OF IDEAS and inventive ability should write for new lists of "Needed Inventions," "Patent Buyers," and "How to Get Your Patent and Your Money." Randolph & Co., Patent Attorneys, Dept. 319, Washington, D. C. 10-17-11

VALUABLE PATENTS SECURED — Protect your ideas. Send drawings for patentability search. New booklet free. Lester D. C. Sargent, 524 Tenth St., Washington, D. C. 9-17-11

PRINTING

POULTRYMEN'S PRINTING prepaid — Noteheads, envelopes, cards, tags, labels, 100 either, 60c; 250, \$1; 500, \$1.50; 1,000, \$2.50. Postcards, catalogs, circulars, letterheads, everything. Finest cuts furnished. Stamp brings elegant samples. Model Printing Company, Manchester, Ia. 9-11

POULTRY PRINTING — Largest, best equipped plant. Prompt service, low prices. Send for free price list, complete set of samples and catalog of poultry cuts. Rennekamp Printing Co., McKees Rocks, Pa. 9-11

SELL OR EXCHANGE

FOR SALE — YOUNG Mammoth Bronze Toms, or will exchange for hens. Mrs. Samuel Stoneburner, Wheaton, Ill. 10

OVERLAND TOURING CAR—What have you? Bailey's Feedstore, Albion, Ill. 9-11

FARMS FOR SALE

\$750 DOWN GETS Farm. Stock, Tools and crops, near city, in heart of money-making section, near world's best markets, short distance to city over two standard railroads; 2½ miles depot town. 25 acres smooth level tillage and wood; apples, pears, cherries, grapes, berries. Cottage house, good condition inside and out, barn, etc. Aged owner for quick sale throws in all stock, tools, 2 acres potatoes, ¼ acre beans, all crops; \$1,500 gets all, \$750 down, easy terms. Details this fine one-man farm bargain page 21, Strout's Catalogue of this and other farm bargains, many with stock, tools, crops included; mailed free. E. A. Strout Farm Agency, Dept. 4002, 150 Nassau St., New York, N. Y. 10

40,000 ACRES OF HARDWOOD LAND for general farming, stock, dairying, poultry and fruit in best part of Michigan. Fine water; no stone or swamp land; mild climate. \$15 to \$30 per acre. Terms as low as \$5 monthly if desired. 10 acres up. Towns, schools, churches. Week-end excursions. Be independent. Booklet free. Swiggart Land Co., 1-1259 First National Bank Bldg., Chicago. 10

AUTOMOBILES

FORDS START EASY in cold weather—with our new 1919 carburetors 34 miles per gallon. Use cheapest gasoline or half kerosene. Increased power, styles for any motor. Very slow on high. Attach it yourself. Big profits to agents. Money back guarantee. 30 days' trial. Air-Friction Carburetor Co., 378 Madison, Dayton, Ohio. 10

MISCELLANEOUS

BROTHER, ACCIDENTALLY discovered pleasant root, chewed like gum, quickly overcomes tobacco habit and indigestion. Gladly send necessary particulars. John Stokes, Mohawk, Florida. 10

WANTED

EXPERIENCED POULTRYMAN desires position on poultry farm or with firm closely allied to the poultry business. Deyoe, Dodgeville, Wis. 9

WANTED—EXPERIENCED, WELL recommended poultryman for hatching and raising a large number of chicks. All-year job. Good pay. Walhalla Poultry Farm, Oscoda, Mich. 10

WANTED—PULLETS, Mottled Javas and Anconas. Frank Buck, Metamora, O. 10-11

MAN JUST PAST DRAFT age, employed in Chicago, desires a place in suburbs to work odd hours for room, breakfast and supper, helping with chores; can also write business-getting letter. Address P. R., care American Poultry Journal. 10

LOOK! WANTED—Pound size and larger pullets in Silver and Golden Campines, Buttercup, Speckled Sussex, Anconas, Rocks, Reds, Minorcas, Orpingtons, Wyandottes, Leghorns. Yearling hens in Silver or Golden Campines, Buttercup, Speckled Sussex, White Campines, S. C. White Minorcas. Only healthy, thoroughbred stock wanted. In writing, state lowest price. Walker Lybarger, Gambier, Ohio. 10-12

WANTED — ALL VARIETIES poultry, rabbits, dogs, pigeons, etc. E. Billstone, Jamestown, N. Y. 10

WANTED — EXPERIENCED incubator manager for baby chick plant; also must have an all-round poultry experience and know the game. Address Box B, American Poultry Journal, Chicago, Ill. 10

WANTED—POSITION ON poultry farm by single man, age 40, with three years' experience; have the ability to manage plant. Address John J. Flaherty, 113 South Ave., Poughkeepsie, N. Y. 10

WANTED — EXPERIENCED POULTRY man. Good permanent job and splendid opportunity for right man. Someone with experience in handling incubators desired. Farm not far from Chicago. Address C. care American Poultry Journal, Chicago, Ill. 10

WANTED—TWO, THREE-POUND pullets, Leghorns, Rocks, Reds, Wyandottes. Give price, weight, quantity. Blue Ridge Farm, Thurmont, Md. 10-11

SITUATION WANTED — Poultryman of many years experience on commercial farms, desires a change. Thirty days' notice required. Will not handle and condition show birds. Work with present employer entirely satisfactory. Living conditions most important. Married, but will not board help. Address W., care American Poultry Journal, Chicago, Ill. 10

Illustrated Breeders Cards



Mooseyard wano, Wis. 10

SINGLE COMB WHITE Leghorns—Yearling hens from 1917 breeding pens at rock bottom prices. Also March and April hatched pullets and cockerels that are bound to satisfy you. Write us your wants today. Poultry Farm, Box 903A, Shawano, Wis. 10



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FIFTY VARIETIES OF FINE thoroughbred poultry. Cochins, Brahmās, Langshans, Rocks, Wyandottes, Houdans, Orpingtons, R. I. Reds, Leghorns, Polish, Hamburgs, Spanish, Ducks, Turkeys, Geese. Incubators and large illustrated catalog mailed for 4c. C. M. Atwood, Box A7, Dundee, Minn. 9-17-2yr



ron, N. C. 11-17-1yr

DEAD GAME FIGHTING FOWLS—Red, White and Blue. They are full-fledged "honest-to-goodness" 100 percent American. Cocks defend themselves with dying breath and hens have pep and vitality to shell out winter eggs. Illustrated folder free. Alfred E. Graham, Cameron, N. C. 11-17-1yr



PURE BRED WHITE Wyandottes, Rose and Single Comb Reds, Barred Rocks, breeding stock for sale. Eggs for hatching at very reasonable prices, quality considered. Special prices on eggs in large lots for filling incubators. N. E. Robart, R. 2, Caledonia, Mich. 6-18-1yr



BARRED PLYMOUTH ROCKS—Cockerels (pullet-bred) of my very best 1917 hatchings, only \$10 each. My birds win everywhere. See last month's adv. You need one of these fine birds. Order today. John Peterson, Box 292, Randall, Ia. 3-18-1yr

S. Comb White Wilsons

Mature quickly. Pullets lay at 5½ months, are non-sitters and heavy layers of large white eggs. Write today for free descriptive catalog, giving prices on young stock. N. W. Williams, Originator, Wilson, Va. Box A. 10



WHITE ORPINGTONS—Line-bred for purity of color. Heavy laying and exhibition. Quality guaranteed. Winners leading shows; 40 cups, A. P. A. medals, club specials, etc. Catalog explains. F. S. Bullington, Box A, Richmond, Va. 5-18-1yr

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FOR SALE—50 fine cockerels, 40 pullets, 10 hens, from the finest strain in the state; winners of many blue ribbons and cups at all the big shows of the middle west. Hens with over 200-egg records. C. O. D. if desired. R. S. Powers, R. 4, Parsons, Kans. 10



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For Sale **1000 B. P. ROCKS** Including



One of our Boston Birds

FIRST PRIZE Boston Winners

AND STOCK BRED FROM BOSTON WINNERS

We Won 1917 at the National Barred Plymouth Rock Club Meet, Boston (did not compete 1918), all Seven Prizes on Cockerels, First Pen Chicks, First Pen Fowls, First Pen Mated for Cockerel Breeding, National Trophy Silver Cup for Best Cock, Cockerel, Hen, Pullet and Hen; also many other prizes.

50 COCK BIRDS

superior breeders or show specimens, \$10 to \$100 each; limited numbers of choice Hens, the kind that winners are bred from; Cockerels and Pullets, some of the finest we ever raised, part now ready, more as they develop; prices according to grade and selections made for individual requirements.

Male birds of our breeding hold, so far as our knowledge goes, the record for prices actually received for individual males. A phenomenal Madison Square Garden First Prize Record during the period there shown. Also a "silencing record" at Boston.

BRADLEY BROS. Box 909 LEE, MASS. Circular We please our customers

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Champion Barred Rocks

Game and Ornamental Fowl

We have the birds and want the breeders to realize it.
We never had as good a bunch headed for the show room.

—and that means a good deal when you consider that last year we had more winners at the National Barred Rock Club and Illinois Centennial Shows than all breeders in the United States combined.

1000—Head of Superior Young Stock for Sale—1000

bred from the above winners and others like them. They will give ground to no competitors this winter, no matter where they come from.

GREAT BARGAINS IN BREEDERS

300 head fine yearling old stock, including our winners, with 40 cock birds in the list. Now is the time to secure your breeders. They are lower in price now than they will be in the spring, and it is much better to put them into their new quarters in the fall so that they will become acclimated and satisfied by breeding time. The results are much more satisfactory.

Send 25 cents for our instructive booklet. "Management and Care of Pheasants and Other Ornamental Fowl." Also complete bargain list with prices of our Ornamental, Game and Waterfowl.

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BARGAINS

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now buys the Watts No. 4 Corn Sheller, built for the man who shells for himself and a few neighbors. Clearly shells 75 to 125 bushels per hour with a 3 H.P. to 6 H.P. engine. Shells, cleans and loads all the corn—stacks the cobs.

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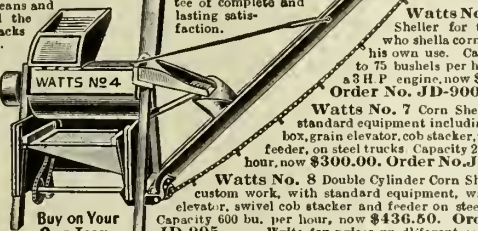
Here's Big News for America's Corn Growers—World's Famous Watts Corn Sheller in any size small, medium or large capacity to meet the needs of every farm. We are now able to offer them at big cut prices in all sizes, under most liberal terms, with a 30-day Free Trial and a guarantee of complete and lasting satisfaction.

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Ajax high grade rubber surfaced roofing; put up 108 sq. ft. to the roll. Complete with nails and cement No. JD-302, 3-ply, per roll \$1.27; 2-ply, per roll \$1.17; 1-ply, per roll \$1.07.

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Our famous Rawhide Rubber Roofing, 3-ply, guaranteed for 12 years; a high grade covering. Rolls contain 108 sq. ft., nails and cement included. No. JD-304, 3-ply, per roll \$1.64; 2-ply, per roll \$1.44; 1-ply, per roll \$1.10.

10,000 rolls of extra heavy high grade roofing; red or gray slate coated, rock faced, brown pebble coated, double sanded; mineral or mica surfaced. No. JD-305, per roll of 108 sq. ft., nails and cement included, \$1.94.

Wonderful Metal Roofing Snaps! 28 gauge painted 2 1/2 in. corrugated, overhauled siding sheets; 5 1/2 ft. long. No. JD-306, per 100 sq. ft. \$2.00.

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24 gauge extra heavy painted, 2 1/2 in. corrugated overhauled sheets for roofing barns, granaries, etc. No. JD-308, per 100 sq. ft. \$3.50.



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A complete electric light plant at a big saving. 75 Light Rumeley-Falk Electric Light Outfit; complete with Willard rubber jar storage batteries, 30 volts. No. JD-213. Complete \$210.00.

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As Built For Ford Motor Co. JD-1507. Latest Honeycomb pattern. All parts coming in contact with water made of brass. Large water capacity and cooling surface. Finished in black Japan. For 1909 to 1916 models, \$23.00. For 1917 and 1918 models \$25.00.

Handy Articles Priced Low!

Poultry Fencing
48 in. High
45c Per Rod
No. 14 gauge wire at top and bottom. No. 18 intermediate and stay wires. Spaced from 1 1/2 in. to 3 1/2 in. Heavily galvanized. JD-16, 48 in. high, per rod 45c; JD-17, 60 in. high, per rod 50c.

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Grinds dry bone, oyster shells, gravel, old crockery, etc. Easily adjusted and very durable. No. JD-8021, each \$3.30.

*1822 Buys This Excellent Feed Mill

Finely built, substantial Feed Mill for flour, meal, feed, etc. Little power—1 1/2 to 3 h. p. only needed to grind from 6 to 20 bushels per hour. Won't choke up. Complete with pulley, 6 1/2 in. diam., 4 1/2 in. face; two sets of burrs for coarse and fine grinding; sifter or bolting attachment. No. JD-101, each \$18.25.
Extra burrs, coarse, fine or medium, pair, 95c

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Now Built For Us
\$66 2 H.P.
Newest and best Kerosene Engine—built for service since 1867. Write for full details of sale. All sizes, 2 h. p. to 16 h. p. Free trial, most liberal terms, your old engine taken as part payment and a guarantee forever.

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Regular \$5.00 extra fine Anti-glare auto lens. 2000 prisms cut on the inner side with bull's-eyes pointing down below center, floods the road ahead with soft light. Supply limited, order quick. Fits any car, meets all anti-glare laws. Give size of your lenses. No. JD-212. Per pair 95c.

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Our guaranteed House Paint of best formula. 28 non-fading colors to choose from. Order No. JD-206, per gallon \$1.77. Guaranteed quality Barn Paint, 6 colors. Order No. JD-207, per gallon \$1.00.

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Good Iron Pipe in random lengths complete with couplings, all sizes. Order No. JD-204, 1 in. per foot 7 cents. Order No. JD-205, 1 1/4 in. per foot 9 cents.

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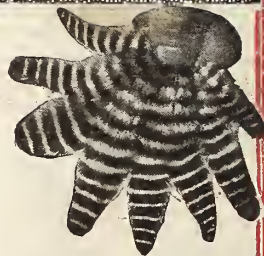
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Are Recognized Throughout the World
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One of the Great Imperial "Ringlet" Males.
Observe the Wonderful Shape, Color and Barring.

Their record at America's Imperial Show, Madison Square Garden, N. Y., for 30 years stands without parallel.

At the last 1918 Garden Show they won every first prize offered. At the last four shows, 1915, 1916, 1917, 1918, they won 19 first prizes out of 20 offered. First Prize Pullet and Champion Female the last four successive years—every prize and ribbon offered on cockerels, viz: 1st, 2nd, 3rd, 4th, 5th, the last five years in succession and under three different judges—every bird bred on my farm.

**Supreme at
Madison Square Garden
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Grand Winning Show Birds

The finest that all America has ever produced are now on my farm ready to win Blue Ribbons and Silver Cups for you in any competition in the world in Cocks, Cockerels, Hens, Pullets and Pens. Their matchless "Ringlet" barring wins under all judges. **As layers they are pre-eminent:** In my catalog are testimonials from customers giving positive "Ringlet" laying records up to 283 eggs in 10 months.

Prizes and Silver Cups

have been won by my customers on the Imperial "Ringlets" in more than a thousand show rooms throughout the civilized world—you can win the same laurels. I will sell you grand exhibition birds for any show and breeders of this richest First Prize New York Blood in elegant single birds, trios or pens mated to produce prize-winners.

*If you want the best in Barred Rocks, you must have my Imperial "Ringlets."
My customers are my first thought, and nothing is too good for them.*

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from the finest exhibition matings in the world—now \$5 per setting. This is only one-third of my regular price. 100 eggs \$35.

E. B. Thompson

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AMERICAN POULTRY JOURNAL

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HERE AND OVER THERE**

Seven organizations with the single purpose of doing their bit toward winning the war by helping to keep the military and industrial armies fit, are co-operating in a war drive November 11 to 18, to raise \$170,000,000 for their work at home and overseas. These seven organizations are: The Young Men's Christian Association, Young Women's Christian Association, National Catholic War Council, including the Knights of Columbus, Jewish Welfare Board, Library War Service, War Camp Community Service, and Salvation Army. These organizations have joined hands in carrying to our boys the touch of home care and comforts from their own homes to the fighting fields overseas. We at home should join hands in providing funds in order that this service of home comfort may not break down for a dollar a single day.

VOL. 49

NOVEMBER, 1918

NO. 11

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

Published Monthly by the American Poultry Journal Publishing Company, 523 Plymouth Court, Chicago, Illinois. Subscription Price, \$1 for 3 years; 60c for 1 year

N S E



Keep Your Hens Laying All Winter

Don't make the mistake of trying to get eggs this Winter by feeding Scratch Feeds—**SCRATCH FEEDS WON'T MAKE EGGS** because they do not supply the hen with the necessary ingredients to produce eggs. Your hens will lay in Winter as well as Summer if you supply them with the same egg-producing feed that they pick up themselves in the Springtime. The feed that supplies these ingredients—the feed that will keep your hens laying all winter is

FUL-O-PEP DRY MASH

This wonderful egg-producing feed is the result of continued experiments by our poultry feed experts. By watching the natural habits of the hen we learned that if she was provided with the proper kind of feed to keep her egg-making machinery working—if she was supplied with the same egg-making ingredients that she picks up on free range in the Springtime—she would lay eggs in Winter as well as Summer—it's the feed and not the season entirely that regulates egg production. **FUL-O-PEP DRY MASH** is the raw material from which an egg is made—it is a combination of green food, animal foods and grain protein foods finely ground and correctly balanced to make a feed as near to nature's egg-making material as it is possible for expert feed knowledge, science and experience to produce. Keep it before your hens all the time and you will get eggs in abundance this winter—**WE GUARANTEE IT.**



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AURORA, N. Y. Sep. 26th., 1918

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Per *E. L. Wyckoff*

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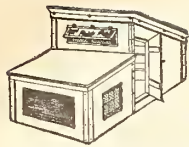
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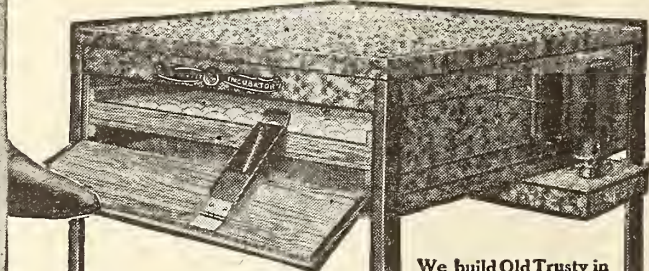
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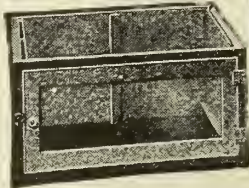
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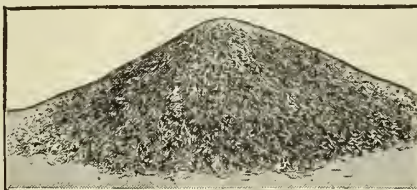


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Made with glass doors. Each section a separate compartment. Start with just enough sections for your needs and add more as you need them.

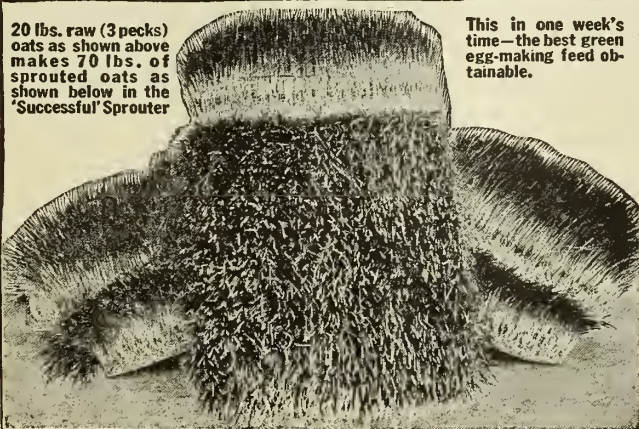
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20 lbs. raw (3 pecks) oats as shown above makes 70 lbs. of sprouted oats as shown below in the "Successful" Sprouter

This in one week's time—the best green egg-making feed obtainable.



SPROUTED OATS

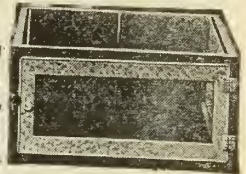
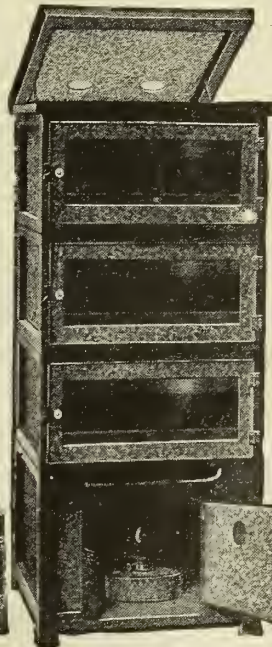
Read These Letters From Owners

"Successful" Sprouter Best of All Jamestown, N. Y., Sept. 12, 1918.
Dear Sirs: In reply to your letter of recent date will say that I have no objection to your publishing the letter I wrote you some time ago. I have used a number of different makes of Sprouters but the one I will use from now on will be the one THAT'S BEST, THE DES MOINES "SUCCESSFUL" OAT SPROUTER. As the results obtained from your Oat Sprouter it must be that your Incubator is in the same class.

Oscar R. Weborg, Prop.
Chautauqua County Poul. Yards.

All Hens Commenced to Lay

Watkins, N. Y., April 20, 1918.
Gentlemen: I enclose name here with whom I am sure you can sell one of your sprouters. I like my sprouter very much. Sprouted oats is all I feed my hens at noon and they are certainly doing fine. Just as soon as I commenced to feed them the sprouted oats they all commenced to lay and have kept it up all through the cold weather. I certainly am well pleased with it. I can keep them on a third less feed. Very truly yours, Mrs. D. Siltor.



start. It has increased egg yields 50 per cent—in some localities more. Takes only 15 minutes a day of your time. Sprouts oats in 24 hours and then grows an inch of crisp green sprouts every day. One feeding of sprouted oats at noon each day is all that's needed to increase the egg yield. And at the same time you cut your feed cost one-third and settle your green feed problem once and for all. Write for full details.

Write Your Name in the Coupon or on a Postal and Mail Today for Circular and 1919 Offer

We could show you scores of more letters like these, but why not show you the "Successful" Sprouter itself and let you see how it can save money and make money for you every day you use it. Famous booklet, "Proper Care and Feeding of Little Chicks, Ducks, Geese and Turkeys," 10 cents.

Write Today

Des Moines Incubator Co.
561 Third Street
Des Moines Iowa

Des Moines Incubator Company
561 Third St.
Des Moines, Ia.

Please send me circulars and your 1919 offer on the "Successful" Grain Sprouter.

Name _____

Address _____

City _____ State _____

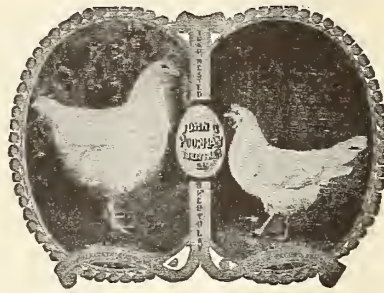
POORMAN'S 200 EGG STRAINS

THE
WORLD'S
BEST
LAYERS

REAL LAYERS

TRAP-
NESTED
200 EGG
STRAIN

STOCK
EGGS



BABY
CHICKS

White and Barred

Plymouth Rocks

Rose and Single Comb Reds

LADY ALFARATA BUSY BESS
Record 301 Eggs Record 285 Eggs

White and Buff Orpingtons

S. C. White Leghorns

White Wyandottes

Poorman has spent 19 years producing profitable layers, and knows how. The performances of his stock in the hands of more than 8000 customers prove this.

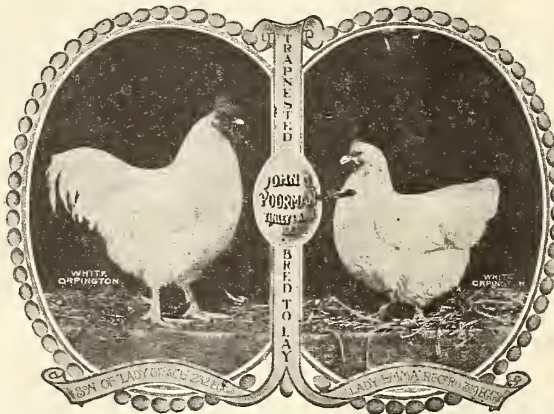
RESULTS

Cincinnati, O., Jan. 30, 1918.
Mr. John G. Poorman,
Tinley Park, Ill.

Dear Sir:

Enclosed please find Money Order (\$30.00) for a White Rock cockerel from your special mating. Kindly give me some information as to his ancestry, as I intend to breed him to some extra heavy laying hens. These hens were raised from chicks purchased from you in 1915 and 1916. Have trapnested them and some of the records are 280, 242, 216, 201, 200—not from the date of their first egg, but from November 1st to November 1st, same as the official laying contests.

Please ship as soon as possible via American Express to Elmwood Place, to be marked, "Will be called for."
J. J. H.



Special Pair Mating—S. C. White Orpingtons

RESULTS

Grosse Ile, Mich., Feb. 5, '18
John G. Poorman,
Tinley Park, Ill.

Dear Sir:

Enclosed find my check for \$15.00 for which, with my credit of \$10.00, kindly book my order for 50 Class A day-old chicks.

If possible, I would like to receive this shipment by American Express not later than the 15th of April.

This sure has been tough laying weather for the last sixty days, but you may be surprised to learn that the Poorman Orpingtons have been hugging the 50 percent mark for December and January and have outlaid some White Leghorns which I had given to me last year.

With best regards for the season's success, I am
Very truly yours,
N. A. P.

Buy Your Foundation Stock Now

My catalog contains descriptions of my plant by representatives of the leading poultry publications, reports of many of my customers, and also my methods of breeding, care and management. It is fully illustrated and very instructive, and will prove to you that my prices are very reasonable.

The individual prices of my breeding and laying stock have not been advanced. A male bird today will cost you no more than it would two or three years ago—a better bird at the same price.

Liberty Bonds Acceptable

*Start right, by writing for my instructive catalog today.
It has helped others, and it will undoubtedly help you.*

JOHN G. POORMAN, Box 100, TINLEY PARK, ILLINOIS, U. S. A.

AMERICAN POULTRY JOURNAL

Volume 49

Chicago, Ill., November, 1918

No. 11

Artificial Light Stimulates Egg Production

By George G. Newell

George G. Newell for several years made a study of egg production and made this matter a hobby as a diversion from strenuous duties as an auditor. As a result of this study, he experimented with artificial light and wrote "A Revolution in Egg Production," published by American Poultry Journal Publishing Co. in 1916.—EDITOR.

GRATIFIED at the general interest shown thruout the country in the very general practical application of artificial illumination as an aid and stimulus to egg production, I am led to write you on this subject. When this means to increased egg production is first brought to the attention of anyone interested, it seems absurd on the face of it that artificial light should have any effect at all on the output of eggs, and this seeming absurdity is quite natural,

as the simple furnishing of artificial light does not in any way supply nourishment to the fowls; and, as eggs are produced only thru the process of assimilation of food, and the change in form of nourishment as it passes thru the digestive and generative organs of the fowls, the natural inference is that artificial lighting can have no effect and cannot increase production.

This seeming absurdity is the great stumbling block in the mental process necessary to a serious consideration of this subject. The caption of the article in the *Chicago Tribune* on January 5, 1915, on the subject of my experiments was, "Plays Electric Light Joke on Chix and They Lay for It." The *San Francisco Call* said under the caption "Cruelty to Hens in Darkest Chicago." "There



GEORGE G. NEWELL
Originator of the Idea of Using Artificial
Illumination in Poultry Houses

is an ingenious gentleman in darkest Chicago who takes about the meanest advantage of his hens that comes to our attention." These two comments are typical of the attitude of mind toward this subject before it is understood. One of these comments suggesting that fowls can be "fooled" into laying, and the other suggesting that fowls in some way suffer from the effects of artificial light. Both of these premises are wide of the mark. Just like every new discovery or invention, the reasons for success are simple and plain when once thought out and put into practical use.

In actual use the furnishing of artificial light gives the same

opportunity for the exercise of judgment, as does the variety, quantity and balancing of the rations; and I can readily see that mistakes may be made in the degree or length of time in which such light is furnished. Bearing this qualification in mind, I cannot see, from my own experience, where any conditions unfavorable to the flock can be created by the use of artificial light, but I can see many ways whereby the owner as well as the flock can benefit by its application.

The general success attending the use of this method proves out the conclusions arrived at in the initial experiments.

From coast to coast the use of artificial light has increased production and has stabilized the industry by making this increase possible during the periods of natural scarcity—thus turning the poultryman's unprofitable months into a period of greater profit than his former most profitable season.

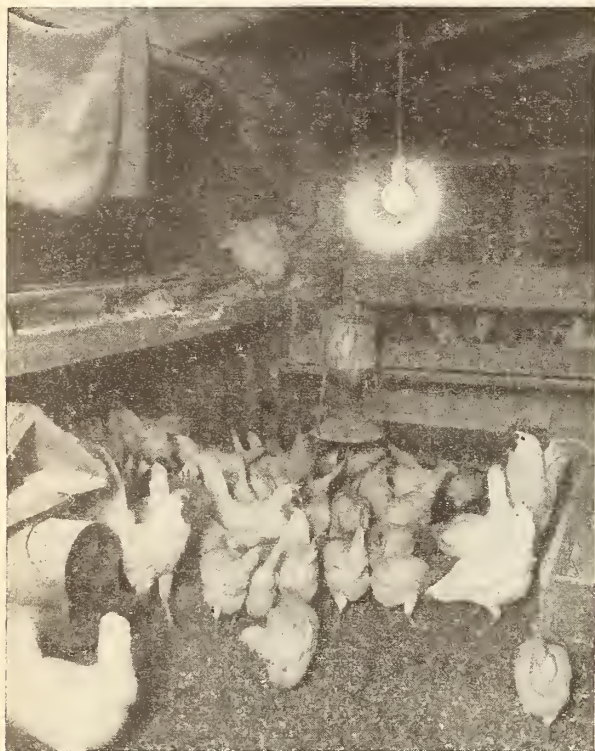
In fact, the use of artificial light makes it possible, by the exercise of judgment, for the poultryman to control his production regardless of weather conditions, whether from sudden or prolonged untoward changes in temperature, from dark or inclement climatic conditions, or even during the molting season.

This one thing lacking, when furnished, can be made the key to unlock the door of opportunity, by means of a lengthened "hen day," to enable the poultryman to attain success only limited by his skill in furnishing the necessary surroundings to the comfort of his flocks and the balancing of rations to obtain results. It also puts the poultryman in a position to bring fowls to laying maturity at will, irrespective and independently of the calendar, and by this means enables him to insure still further a regular output thruout the year.

The means used for illumination are various—some using ordinary lanterns, some improved lamps, or kerosene and gasoline gas generating lamps, and others electricity. Of course, when obtainable, electric light is not only far more convenient but also under better control.

Among well known persons in the poultry world who have become interested in artificial lighting are J. B. Roe, Pasadena, Cal.; M. E. Atkinson, Hollywood, Wash.; James E. Rice, Cornell University, Ithaca, N. Y.; E. E. Emerson, Burbank, Cal., and E. B. Martin, Downey, Cal. These are only a few representative of the interest aroused. The Cornell Poultry Project alone has over 50 members who are using artificial light successfully. They all, without exception among those I have read of, secure an increase in egg production by the use of artificial illumination, which does not feed the fowls or appreciably add heat to the housing quarters. The only reason I can see for these results is the lengthening of the "hen day," unless there might be some benefit derived from the cheerfulness furnished by the light. Among other communications received was one, of recent date, from Luther Banta, B. S., Poultry Husbandry, New York School of Agriculture,

Alfred, N. Y. Mr. Banta had read "A Revolution in Egg Production" and wanted to add to his researches. Among other subjects, Mr. Banta was interested in: The effects on



Pullets in a busy night scene, picking up the additional feed necessary to lay more eggs in winter.

hatching results; the effect on hatchability of pullet eggs as compared with hen eggs; how continued illumination for years affected hatchability; the schedule of illumination; whether I still continued the schedule in August (during molt); whether changes in feeding system were made on account of light; the effects on the molt; whether the interior quality of eggs was affected; whether I had known of the use of artificial lighting previous to experimenting.

I replied to Mr. Banta, to the best of my ability, which was not as conclusive as I should wish because of the handicaps under which I operate. I mention these queries as showing the various points which are brought up when this subject is gone into.

In conclusion, Mr. Banta furnished the interesting information, that he had found evidence of light being used over 30 years ago in a laying house. This information furnished by Mr. Banta shows either that practical results were not worked out, that extravagant claims were made, or extravagant results expected, or that the significance of the subject was not understood—otherwise a general application to the industry would have developed.

All the instances of which I have heard or read, date after the appearance of the article in the *Chicago Tribune*. From and after this date we began to hear of success in increasing production. This article was widely copied. The *Rexall Store Almanac* for 1916 copied this article; the *Electrical World*, February 6, 1915, took up the subject; *Every Week* published an article, and the good work went on. The premises are sound, the reasoning simple, and there is no magic about furnishing artificial light. I cannot see that it furnishes any stimulus, in any manner. It is simply a means of control of conditions which enables the poultrymen to either intensify their errors of feeding, or to take advantage of the producing powers of the fowls to their own profit. It removes the *one block* which has hindered poultrymen in their efforts to furnish spring and early summer conditions to their fowls for the purpose of securing fall and winter eggs.

Having tested this matter thoroly for some years, I have never yet failed to get immediate response in egg yield as a

return for a lengthened day. The schedule has been varied according to circumstances. At present (these are war times) the schedule is about an hour from 9 to 10 P. M.—thus getting the fowls off the roost for feeding—and it works and produces results. The schedule, however, must not be irregular, or suddenly changed by shortening the time, or it will start a molt. I have not been able to detect any ill effects, either on the health of the fowls or quality of eggs, which can in any way be attributed to light furnished; but I have secured control of an output in eggs in steady quantity at all seasons.

With normal daylight, the months of scarcity are September, October, November, December, January, and, with inclement weather, February. With an artificially lengthened day I secure as great a production during these months as in spring and summer.

The great quantity of eggs produced under natural conditions in spring and early summer can be attributed to climatic conditions, the variety and quality of food available to the fowls, and the lengthened day.

Feeding conditions can be controlled by the poultryman and he has succeeded fairly well in this control for some years.

The conditions of the advanced season, including broodiness, the shortage of bugs, worms, etc., and the various discomforts of the fowls also have a tendency to curtail the supply. Most of these matters are also subject to control, and we are able by artificial illumination to simulate spring and early summer conditions in fall and winter by lengthening the day sufficiently to enable the fowls to sustain themselves in comfort and have a surplus of nourishment for producing eggs.

Fowls do not lay eggs because "cajoled," "forced" or "fooled" into doing so, but from choice when conditions are favorable. The reproductive process is always greatest when life is most vigorous, and heavy laying is no exception.

When put into general practice, artificial illumination is destined to produce a steady flow of fresh eggs and a consequent supply, for the ever existing demand, thruout the year. When this is accomplished, the public will demand that when purchasing eggs on the market there shall be no question as to the kind of eggs they receive. Eggs and the producers and purveyors thereof will then have to travel on their merits. "Mighty oaks from little acorns grow" and I look forward to great results from artificial illumination as "A Revolution in Egg Production."



Comment on Eastern Poultry Situation

Everybody Carrying On. No "Cold Feet." Some Readjustments Necessary. Conditions Improving.

By Prince T. Woods, M. D.

AT A MEETING of poultrymen in one of the central states the latter part of the summer, a member in the flush of oratory, dilating on the opportunities in the poultry business and the success which had been met with in his locality, said to a visitor from the Atlantic coast: "The only reason you fellows in the East have not done better business is because you had cold feet!" Of course it was simply a rash statement made under stress of oratorical excitement and we do not recall that any reply was made.

We have been living in the heart of the eastern poultry raising country for some time. Even under the stress of war conditions, serious feed shortages, and many difficulties which have had to be met, we have not found any cases of "cold feet." Eastern poultry breeders have been sturdily optimistic in the face of conditions which would have discouraged a less hardy race. Mind you, we are referring to actual producers of poultry, not men who merely talk about what ought to be done in the poultry business, who do not own a chicken and earn their living working for some concern that sells goods to poultrymen.

Blind optimism is folly. Most of our leading men today have been emphasizing that fact for some time past. It takes far-seeing, common-sense optimism to carry on in the face of trying conditions which must be seen, met and overcome. You don't drive an automobile at full speed into a blocked road bearing the sign "Danger! Bridge Down." That is, you don't do it if you are wise and expect to get thru safely—you make a detour.

Eastern poultrymen had a most unusual situation to meet. This section of the country is dependent for its grain and feeds upon the grain producing and milling country of the central states. Grain could be more cheaply produced there than here, and today, altho the East is producing more grain than it has done before in many years, it still appears that the "corn and wheat belt" producers can grow grain far more economically than we can. Transportation conditions and unusual war-time demands shot grain and feed prices up almost out of sight in our markets, and there were periods of very serious grain and feed shortage—we still experience a good deal of difficulty in getting supplies to feed our flocks. Warm footed optimism alone will not carry a man thru when feeds are difficult to obtain at any price, and for weeks and months at a time when his expenses are eating up two dollars for every dollar he takes in. When it comes to "cold feet," we actually received in our correspondence more complaints about "hard times" and poultry difficulties from readers in other sections in a few weeks, than we have had in two years from this eastern poultry raising country.

One prominent eastern fancier, when things were looking decidedly unpromising, wrote us: "I haven't cold feet, but I'm wearing thick stockings to keep 'em warm, and I'm hanging on like a puppy to a root and shan't let go my holt till I am yanked off. Cost of everything is big and getting bigger, profits are at zero. Still we hang on, have got to hang on some way." He is still hanging on, has smaller flocks than usual, but some of the best quality he ever bred and grew, and he is working overtime both on and off the plant. He has to have outside work in order to stick. Another breeder, a man we know well, has a good big flock of pullets and some fine cockerels which he says he hopes "will clean off the slate at the grain dealer's while the credit is still good."

Eastern men have been forced to adjust their business to war-time conditions in this congested section of the country, which is so exceedingly busy with war activities and which is the starting point of all men and supplies headed for the front. It is the front on our own soil and at times the war has seemed very close to our doors. So far as poultry goes a good many egg farms and market poultry plants have been forced out of business. The prices obtainable for eggs and poultry did not adjust themselves readily to the increasing

cost of production, and even now the prices of poultry products are just *beginning* to approach the mark at which they should be. Large commercial poultry enterprises in this section were not encouraged, were even discouraged by the authorities, apparently with the view that the central and southwestern states could produce and sell us eggs and poultry more cheaply than they could be produced here on grains and feeds which must be shipped in over railroads already overburdened.

But eastern poultry breeders and fanciers have not been discouraged, and are not discouraged today. They may not



have as large flocks as usual, but they are still carrying on and have good Standardbred quality that is even better than usual. Many are in army, navy or other branch of government service. We have just as many real fanciers today as we ever had, and probably more. Some of the big farms are gone. There have been many beginners who have started, kept on until the half grown chicks began to really develop appetites and show how much they could eat, and then some have sold out and quit—but a reasonably good percentage are going to stick, and most of these will make fanciers. Farm flocks and back-lot flocks are smaller and not as common as in more favorable times, when almost everybody "kept chickens."

Today, October 9, the demand for eggs and poultry is improving, even tho prices are showing an upward trend. The wholesale price of eggs at the farm is 80 cents a dozen and fat fowl bring 34 cents per pound alive. These prices seem high to some, but to be in fair proportion to production

costs they should be higher still. The newspaper press in our big cities has, as a rule, been hostile to the producer and has clamored to keep down the price of farm products. Now and then some immoderate person gets a letter published declaring that dairy men and poultrymen are "profiteers," but such attacks are not as common as they were a few months ago. Milk is getting a good deal of publicity and is being boosted as a cheap food. The milk producers' association has been a help in getting the right sort of milk talk before the public. Eggs and poultry are still in great need of similar publicity work. The hen needs a good press agent to boost her produce and demonstrate its big value. Value considered, milk, eggs and poultry are still the cheapest foodstuffs in our market.

Recently some salaried grouch in the big city yelped even louder than usual about the price of milk, the profits producers are popularly supposed to be making, and emphatically stated that eggs are not worth 85 cents a dozen. His published letter brought a prompt response from a good friend of ours who



First prize Silver Campine pullet at Chicago Coliseum Show. Owned by Frank E. Hering, South Bend, Ind.

is a practical poultryman of long and successful experience. The poultryman's letter was about as follows:

"Your letter from Mr. — today can very easily be answered by his going into the milk, hen, or farm business himself and buying Liberty Bonds with the milk he raises, or eggs, or produce.

"It should be very easy for him to buy a farm, or hire one even, and try it out. He is following the line of least resistance, apparently, and buying everything he consumes, and, at the advance of two cents a quart, kicks. Mr. —, go into the game and try it out. Yourself, like many others, like to kick because it's human nature. How many hours a day do you work? If you raised milk or eggs and poultry for a living, you would work fourteen days a week, and have enough worry to give you nervous prostration. There seems to be joy in kicking and knocking the food producer.

"We are buying all tools and equipment on an eight-hour basis, and selling our produce on a sixteen-hour day basis, plus the worry and the risk of losses. Take your choice, Mr. Consumer, either produce what you need yourself or pay a fair price for it, the pleasure will be yours. Make a little more effort and kick a little less, and you will not only buy Liberty Bonds but milk, eggs and other produce as well."

If more producers would reply to the complaints of consumers it might prove a good thing. Sometimes it takes a little jolt in the right place to bring about a proper under-

standing between all parties concerned. We are still carrying on at our farm and producing all we can without going into a deep hole. We sell our surplus produce but we expect the consumer to pay us a fair price for it. If he "kicks" we courteously suggest that he buy elsewhere or better still get into the business and produce what he needs for himself. We get plenty of advice about growing most of our grains, etc., and are told that we cannot expect to charge a "high price" for our labor. Why not? Isn't our skilled labor worth just as much as other skilled labor doing as essential work? Isn't our home-grown grain and fodder to be valued at the price it would bring if we sold it in the open market? All things produced on a farm cost money in somebody's time and labor. There are a lot of folks—not all city folks either—who still think because things are raised on the farm that they cost nothing. It is high time that fallacy was exploded.

One dollar an hour is not an uncommon wage at war industries, plants around here for even little skilled labor. An ordinary farm hand can demand and get 50 cents an hour and mighty few of them will work for that. Some harvest hands are getting from \$10 to \$14 a day on eastern farms that used to be able to get plenty of men for less than that amount a week. If the poultryman or farmer goes into a munition plant or factory to work and takes any members of his family with him, each worker gets paid on the eight-hour day basis and "time and a half" or "double time" for overtime, holidays or Sundays. If the same man works his farm or poultry plant, he and his family have to work from 14 to 16 hours a day, seven days a week, and he takes what he can get with no allowance made for the labor of other members of the family. That is what we are up against here in the East, and we believe similar conditions prevail in a large part of the whole country. Food production needs to be on a safer and more sound basis, one that will insure a square deal and fair and just profits for the producers.

No, we don't find any "cold feet" among poultrymen here in the East. Most of us are carrying on and doing our utmost. We are making the best of things we cannot help and endeavoring to better the things we can help. Readjustment is slow, but it is coming, just as better things are coming with it. We believe that the outlook for the poultry business is more promising than it has been for some time. Prices are likely to be better equalized throughout the whole country. The central states poultrymen will benefit, many of them have already benefited, by the very condition which have worked difficulty for those of us who are located in the coast states, but when the real readjustment comes, as it is sure to come, poultrymen everywhere thruout the country are going to share in the better business.

We need to get together, to work together and to join in a nation-wide co-operation for the good of all and the progressive improvement of the whole poultry industry. Not only do we need to keep up the campaign for boosting Standardbred poultry, but we should keep hammering away on a strong publicity campaign to urge the value of eggs and poultry as food, to demonstrate to the public that poultry produce is really cheap food, all values considered, and to encourage increased consumption of poultry products.

Eggs at 85 cents a dozen may seem high in price, but that is largely because we have always had them too cheaply. Grain at present prices seems easier now than it did to us when prices first began to climb skyward, because we have already experienced considerably higher prices. Just bear in mind that illustration of comparative prices and values given by the N. E. Poultry Producers' Exchange. Here it is:

Remember that a dozen eggs ought to weigh at least 1½ lbs. and we will assume that you pay in the cold weather \$1 per dozen for them. Ninety-seven percent of this purchase is all good, healthy food. A good steak at 75 cents per pound will be found to be one-third bone and waste fats. In other words, you have paid 75 cents for two-thirds of a pound of meat. The real cost of this food is therefore \$1.12½ per pound.

In the case of the dozen eggs that you bought for \$1, you only paid at the rate of 66⅔ cents per pound, because you buy 1½ pounds for a dollar.

This simply means that of the two foods meat is costing you \$1.12 per pound against eggs, the better food, at 66 cents per pound.

Bourbon Red Turkeys Valuable on Farms

Experiences in Turkey Raising. How and What to Feed.
 First Prize Article American Poultry Journal's Monthly
 Contest.

By C. M. Brumfield, Van Bibber, Maryland

IN SELECTING a breed of turkeys for a farm flock, I decided that the Bourbon Reds would suit my purpose better than the other varieties, because they are more domestic. The Wild and part Wild, as the name implies, wander far off to the tangled undergrowth of a woods or an almost impenetrable thicket, and can elude the nest hunter to



A 10-lb. S. C. Black Minorca hen which won 2nd hen at Chicago Coliseum, 1915, 1st hen 1916, and 2nd hen 1917. Owned by Royal Poultry Farm, Box 500, Ossian, Ind.

her utter distraction. I have found the Bronze variety much like their wild sisters in nature but my experience with the Bourbon Reds is that if given a convenient straw stack or rick of fodder, the hen will choose it for her nesting place for the first eggs. Later on in the season, the second, third or fourth time, the Bourbon Red hen will probably select a nearby fence row, or bunch of weeds, but not far away, and never a real thicket.

This matter of ease in finding the turkey hen's nest is a decided advantage on the farm. Moreover, the hens are not subjected to the always prevalent danger in our vicinity, of country-roaming dogs which delight in breaking up turkeys' nests and usually kill and eat the birds.

As a rule, a turkey hen lays fifteen or sixteen eggs the first laying. Some lay twenty-two to twenty-five eggs, but such are generally infertile, especially if any unusual number is laid. Each litter the hen will lay a few eggs less, and, if broken up from sitting each time, produce as many as five lots of eggs, the last time laying not more than eight or nine.

In mating, a young tom should not be used. This is true of all breeds of turkeys. A two-year-old tom is as young as is safe to use for breeding, but a three-year-old bird is better. After the third year I usually market the gobblers as they get cross and troublesome as they grow older, but nevertheless they are fine for the breeding pen for a number of years more. I have a beautiful big Bourbon Red tom with fine dark markings which I have used in the breeding pen for the past two seasons, but shall not keep him more than another season.

The interest shown in the poults by the male bird is most interesting. This season I had an early flock of poults which the tom took under his care, even hovering them on the ground at night while the mother hen went off to lay again, having cared for them only two or three weeks when very small. By this most unusual co-operation of the parent birds, the mother turkey is able to bring out numerous flocks of young, and while she goes about this marvelous work of

nature, the stately, proud and wonderfully plumed gobbler takes upon himself the care of the growing poults and displays intense pride in his work. He instructs them in all the intricacies of gathering a living from the fields, in all the arts of caring for their health, in all the wonders of their proper development. And he is apparently never weary of this work nor for one moment considers it beneath the dignity of one filling so important a place in the country landscape as the strutting gobbler.

Last season I sold all the first litter of turkey eggs at a good profitable figure and when the hens began laying the second time, I set the eggs under the largest turkey hen I have, giving her eighteen eggs. Three of the eggs were broken within a few days, probably due to her great weight but out of the fifteen eggs remaining, she hatched fourteen strong poults. Friends condoled with me saying that one after another they would die off, but they persisted in living, surprising even my hopeful self, and I sold them for breeding birds later on. As a child I had lived on a farm where turkey raising had been tried and practically given up as a lost art, but when I returned from the city, after some years spent there, I went at turkey raising with all the hope of a novice, notwithstanding the discouragement which some of my friends and family lent to the undertaking. A sage member of our family visiting me about that time and seeing my fine flock of Bourbon Reds, remarked that it was just as well to take a good look at them *then*, as a turkey is a bird that won't even *try* to live!

I feed the little poults chiefly hard-boiled eggs finely crumbled, using infertile eggs for this purpose. I also give them plenty of chopped onion and cured from sour milk. In the course of ten days or two weeks they are fed small grains and are allowed to roam over the grain fields. The little poults are kept penned up for a week or two and then allowed their freedom, except in rainy or bad weather.

I believe overfeeding kills more turkeys than scanty rations.



First cock and champion male at the National Club Meet, Chicago, 1917. Owned by C. R. Hopkins, R. A2, Osage, Iowa.

Turkeys roam about, picking up practically their entire living from the fields and meadows during spring, summer and fall, and if they have been given a good start on curds, onion tops, and hard-boiled infertile eggs with a little grain, they will balance their own ration and find what is good for them.

I have been most fortunate in not having the dreaded backhead disease in my flock, but I have seen every one of great flocks of beautiful Bronze turkeys die of that disease.

As a market fowl the Bourbon Red cannot be beaten. They are meaty and full breasted and the flesh is juicy and tender when cooked. I have never tasted finer flavored meat nor served any which called forth more favorable comment. A properly roasted, nicely browned Bourbon Red turkey will prove an ornament and satisfaction on any family board that will not soon be forgotten. The flavor is all that can be desired and the quality is of the highest.

In the winter we feed our turkeys mostly corn. They roost under open shelters and are never confined to close, overcrowded buildings. They should be given an occasional feed-

ing of onion tops, chopped onion or cabbage leaves thru the winter.

There is no market fowl which will bring as good a price as a well grown, nicely dressed turkey, for there is no other fowl which is as meaty and worth as much. More turkeys might be profitably grown on farms in grain-growing communities, for it is not the garnered grain upon which they subsist during the greater part of the year but that which they glean from newly harvested fields, from the early pickings of grass and weed seeds thru to corn-husking time. They are active gleaners and extract untold juices and unknown worth from the tiniest weed seeds to the most alert grasshoppers, applying the same to their needs and natural development.

Locating and Planning of Poultry House

Concrete Foundation, High Location and Open Front House Preferred. Second Prize Article American Poultry Journal Monthly Contest.

By *Otto E. Hackman, Ft. Wayne, Ind.*

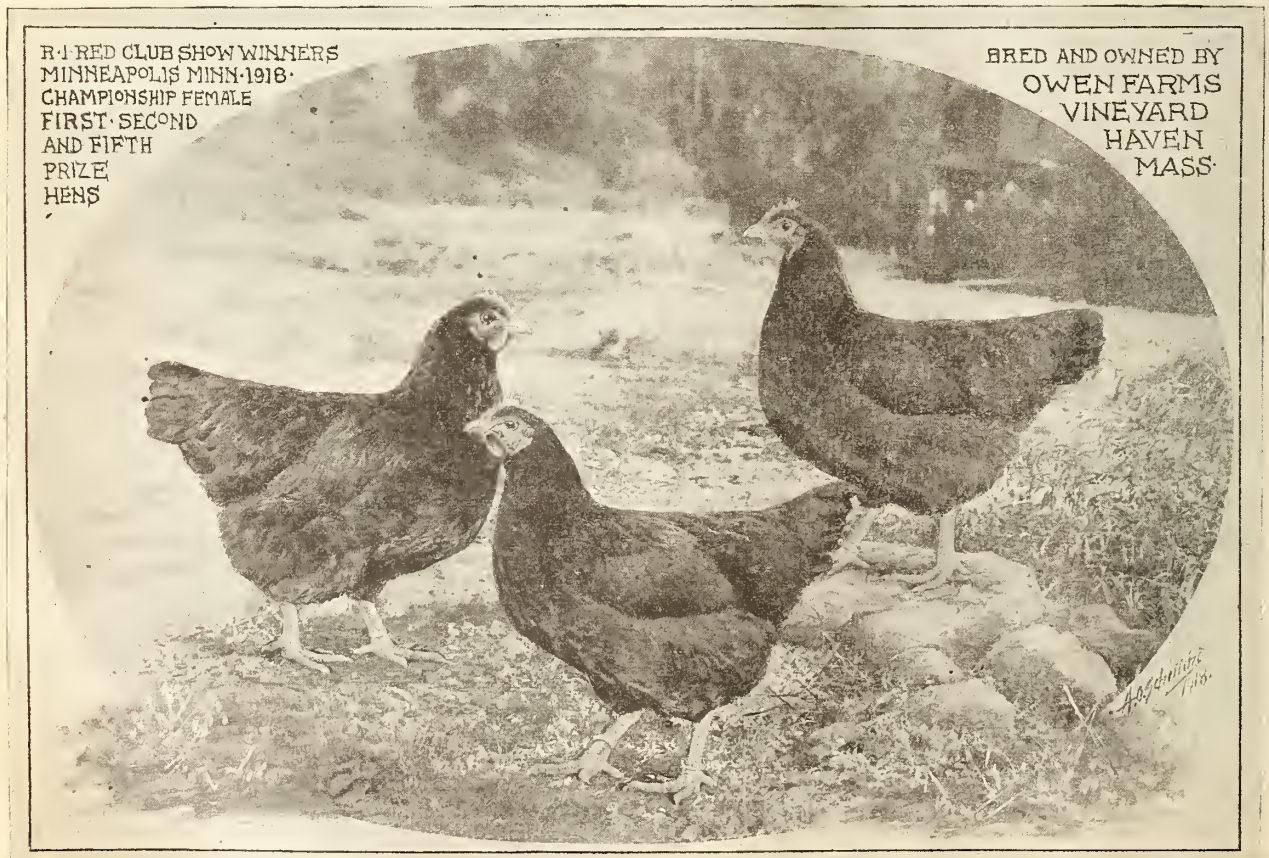
WITHOUT doubt we will find many beginners in poultry culture who will construct their first permanent poultry house this fall. This is a matter which should receive considerable planning and forethought.

Before the building operations are begun, the location should be carefully decided. If an undesirable location is chosen in the matter of locating a permanent house, it will prove a source of regret and dissatisfaction for all time. Therefore before throwing a spadeful of earth, or driving a nail, go over the ground carefully and select the most desirable site, taking into consideration when making the choice, convenience, surroundings and drainage. A spot of land higher than the surrounding ground should be chosen. The drainage problem is then easily solved. The ground, if sloping away from the building on all sides, will carry all water away from the house, and not into it, as would be the case were the house located on a low spot. A poultry house on low land is subject to

flooded and damp floors and is therefore not conducive to healthy stock. The floor and litter should always be kept dry and the house should be so located that it will get a maximum amount of sunshine.

Whether to set the house on walls, posts or pillars must also be considered, altho this is not so important when the house is located on high, dry land. Personally, I prefer a good concrete foundation. The expense is not so great when its permanence and usefulness is taken into consideration. One great advantage in the concrete foundation is that it is perfectly rat and mouse proof and with proper care one need have no fear of these rodents carrying off grain if the poultry house rests upon a good concrete foundation. It is also water proof and wherever the drainage is not all it should be, the concrete foundation is to be preferred.

The walls, if made of good material, properly proportioned, need not be very thick. A four-inch wall will answer for



most any building. Of course, the wall must be deep enough in the ground to bring it below the frost line. Here is the way to mix the concrete for good results. The proportion should be 1:2:4. That is, 1 part cement, 2 parts sand and 4 parts gravel are used, the proportions always being mixed by volume.

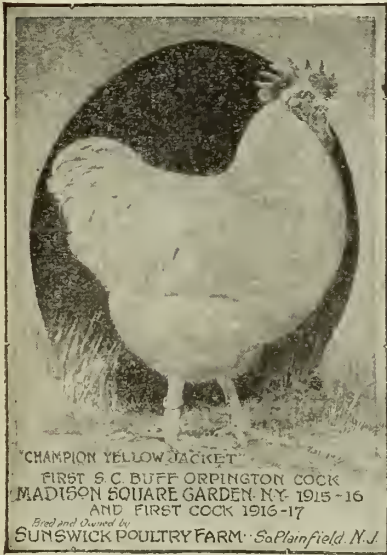
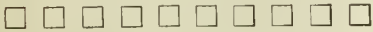
First dump the sand on the mixing platform and spread it out until it is only a few inches thick. Then spread the cement on as evenly as possible and mix both together thoroly by turning over with a shovel. When thoroly mixed, add the gravel, and shovel as before. Then wet it down and work the water thru the whole mass until of the proper consistency which is neither very wet nor dry but rather crumbly. It is now ready to put in the forms, which may be constructed of old boards, and tamped down. Spread the concrete out in layers about six inches thick and pack down thoroly. Keep covered from the sun for five or six days to prevent quick drying. Sprinkle the outside of the wall each day so that it will not dry out faster than the inside of the wall.

If the house is to be of good size it will prove both more serviceable and less expensive if made rather deep, instead of long and narrow. Especially in the northern states should the poultry house be of good depth. I like a house from 16 to 20 feet deep and if more than 25 feet long would always choose the latter depth. The fowls will be more comfortable in a house constructed in this manner. The roosts being

self-ventilating. An abundance of fresh air is constantly being admitted while the stale air is at all times escaping. There is no stench-laden air in the fresh air house. The combs of fowls in open-air houses seldom become frostbitten. The wattles also are practically free from frostbite if drinking vessels are provided which prevent the wattles from being immersed in the water.

The yard problem is one which should receive careful attention when locating the poultry house. Yards should be sufficiently large to allow the fowls an opportunity to exercise. This is especially true in regard to breeding stock. To confine breeders in small runs where no green stuff is grown and where the ground cannot thus be kept pure and free from taint will surely impair their vitality and constitutional vigor.

If the yards are to be located on one side of the house, an effort should be made to have them sufficiently long to prevent the fowls from picking off all the green grass and thus rendering the yards bare. Small runs cannot be kept in grass for any length of time. In case the yards must necessarily be so small that green stuffs will not have continual growth therein, and the poultry house is so located as to allow



CHAMPION YELLOW JACKET
FIRST S. C. BUFF ORPINGTON COCK
MADISON SQUARE GARDEN N.Y. 1915-16
AND FIRST COCK 1916-17
Bred and Owned by
SUNSWICK POULTRY FARM, So Plainfield, N.J.



CHAMPION BUFF MADISON of SUNSWICK
FIRST S. C. BUFF ORPINGTON COCKEREL
MADISON SQUARE GARDEN N.Y. 1915-16
AND SECOND COCK 1916-17
Bred and Owned by
SUNSWICK POULTRY FARM, So Plainfield, N.J.



Brown Ancona yearling hen, exhibited at Chicago Coliseum, 1917, by I. H. Murray, originator, 11337 Longwood Drive, Chicago, Ill.



located in the back part of the house are thus far enough away from the open front to prevent any draft from striking the birds, consequently the fowls are protected from cold blasts of air and are more comfortable and far healthier as a result. A long narrow house is also more expensive to build than a short deep one.

The type of house should also be considered. The fresh air or open front pattern house is in great favor with up-to-date poultry keepers. The old closed type house has been discarded entirely by the most successful poultrymen. It is a fact that fowls housed in fresh-air or open-front buildings are far more rugged and healthy than those occupying closed, warm houses. In the fresh air house, dampness is practically unknown and the fowls do not suffer from the cold, for while the interior of the house is cold, the birds are not affected, as the air is dry and cold and dry air does not have the "bite" that damp, stale air in a closed house has. There are no ventilation problems to solve in the fresh-air house, for it is

a yard on both north and south sides, it is advisable to have double runs. One can then allow the fowls to have the run of one yard while the other is sown to quick-growing green stuff. As soon as the first yard is bare the fowls are turned into the other yard and the first is resown. This process is kept up the entire season.

However, some poultry houses are so situated that a yard on each side of the house is out of the question. If the pens inside the poultry house are rather large, this can be remedied. A double yard for each pen can be arranged on the one side of the house. The yards will necessarily have to be narrower of course. Each yard should be just half as wide as the pen inside the poultry house. One gate will answer for each double yard, the gate to be as wide as each single yard. Have the gate hinged to the end post of the center fence. When yard number one is to be closed, the gate is swung across opening of same and hooked, thus closing it to the fowls and allowing yard number two to remain open. When the fowls are to have the run of yard number one, the gate is swung across the opening of yard number two, thus closing it, and at the same time opening yard number one.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1886, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

SUBSCRIPTION PRICES

United States, Cuba, Mexico and United States Possessions (except Chicago).....	1 Year 12 issues	3 Years 36 issues
Canada	\$.85	\$1.00
Foreign	1.10	1.75
Chicago75	2.50
		1.50

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TRIAL SUBSCRIPTIONS — In order to acquaint prospective subscribers with American Poultry Journal, we will mail one copy a month for six consecutive months to any point in the United States, its possessions or to Cuba or Mexico for 25c. The trial subscription offer (6 months for 25c) is for new subscribers only and not subject to renewal for a period of less than one or three years.

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TRADE MARK REGISTERED,
No. 74,059.

Issued the first of each month.

Published by

**American Poultry Journal
Publishing Co.**

JAS. W. BELL, President,
523 Plymouth Court, Chicago, Ill.

Editors.

JAMES W. BELL,
PRINCE T. WOODS.

PRINCE T. WOODS, M. D., Managing
Editor, Silver Lake, Plymouth Co., Mass.

Advertising Representative,
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53,000 American Poultry Journals for
November, 1918.

State of Illinois, County of Cook, ss.:

Chas. S. Peterson, secretary of the Regar Printing House, Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 53,000 copies of the November, 1918, issue.

CHAS. S. PETERSON.

Subscribed and sworn to before me this
21st day of October, 1918.

(SEAL)

ALICE A. SHEHAN

Notary Public.

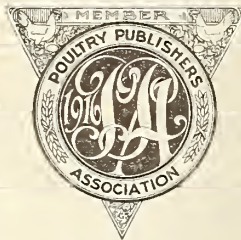
Thanksgiving

Thanksgiving time will soon be with us once again. How rapidly the months fly by, and how much has been crowded into the past twelve months. Most of us are living more in a month now than we used to live in a year or two. It is a good time in which to be alive and doing useful work, even if the old world isn't quite as peaceful a place as it ought to be.

Altho the dark war clouds still cover most of the earth, there are bright rifts in the blackness where the blue sky and golden brightness shine thru. In spite of everything we have much to be thankful for. Even if there were nothing else we can be thankful that things are no worse than they are—and they might easily be. We can be thankful that our brave "boys" are making good both at home and "over there." Thankful that the folks at home are co-operating to back up "our boys" and help win the war. Thankful for the Red Cross, the "Y," the K. of C. and not forgetting the little advertised but wonderfully efficient and helpful Salvation Army that is doing such good work close to the front. Thankful for the bountiful harvest and the abundant meat foods, which the men behind plow, feed pail, and seine have produced that we may have bread, meat and fish. Thankful for a thousand and one things, many of them too intimate and precious to name. Yes, indeed, we have much to be thankful for at this 1918 Thanksgiving season.

November should be a good month, September and early October were stormy and blustery enough to almost insure a fine and seasonable fall. Better plan to make Thanksgiving even more than a day of giving thanks and day of feasting and prayer. Surely there is some sailor or soldier boy, far away from his own home, who is in camp near you and who could be given the wholesome pleasure of a real home Thanksgiving by your fireside. Entertain one or two of "our boys"—and more if you can—at a real old-fashioned Thanksgiving dinner. Turkey may be high in price, but it is not overhigh, all things considered, and either roast prime fat fowl, capon, or green goose makes a dinner that anyone can feel thankful for, particularly when served with all the fixin's. The food administrator has let down the bars a whole lot since he first started fence building.

Make it a real Thanksgiving this year, and don't fail to share the "good cheer" with others who may be less fortunately situated.



War and Poultry

At this season of the year we may expect peace proposals and peace talk. The enemy made similar proposals at this time last year and the year before that. Some folks and some writers are talking freely about the war being over soon and the end in sight. It is just as well to turn a deaf ear to that sort of thing at this time. Instead of taking your war news from the big type headlines, pin the faith in the plain statements of men like General Pershing and his staff. He has indicated that, while "our boys" are making good even beyond hopeful expectations, the end of the war is not in sight; some of the biggest work is yet to come and stubborn resistance is certain.

One of the best things we have seen was the reply of a Scotchman when asked "When will the war end?" "In just 38 years," he said, "one year more to end the fighting and thirty-seven in which to wind up the barbed wire." The Scot probably knows as much about it as anyone else, and he had been "over the top" more than once.

Whatever happens, we are going to have a big army and navy for quite a long time—not only to win the war, but to insure peace after the war. The ranks of food producers have been seriously thinned by war needs. We are going to be obliged to recruit food producers from among the women and children and returned veterans, as well as among those men not fit for military duty. There has been great need of food producers this year and the need will be much greater next year. We must have increased food production in order to help win the war. Poultry and eggs are going to be more important than ever, as necessary foods for the young and for convalescents and also as substitutes for beef and pork.

It is greatly to be desired that the production of poultry and eggs be increased during the coming season. Poultry and egg prices are beginning to reach levels more consistent with the cost of production of these valuable foods. There is a demand for more poultry keepers, and as matters progress we believe there will be more and more incentive to engage in poultry work. The government, through the Department of Agriculture, is working to promote interest in poultry keeping and to encourage beginners to engage in poultry culture. It is devoting its energies to increasing the production of Standardbred poultry.

This is certain to help the business of the breeder and fancier. The demand for market poultry and eggs is strengthening and there is promise of better rewards for the poultterer's labor. All of this augurs well in favor of better business

"Bulletinitis"

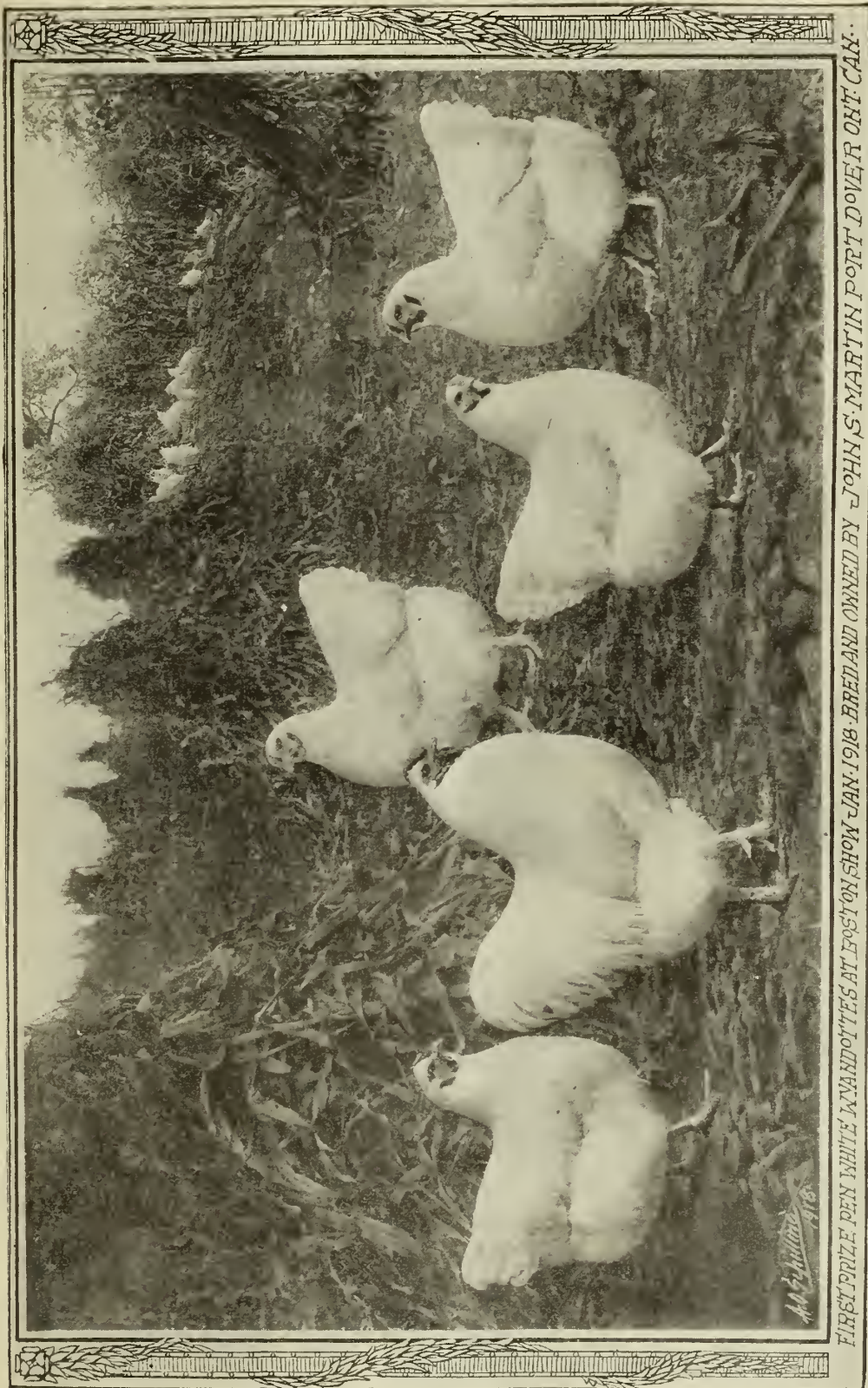
"Bulletinitis" is a name which has been given to an epidemic form of hysteria, prevalent in these war times, which is

characterized by the affected parties—be they bureau or association officials, committees, propagandists, or what not—issuing bulletins of very stale information, frequently repeated, under the illusion that they are rendering most important "news service."

Uncle Sam, through the War Industries Board, requires publishers to save every possible bit of paper, labor and power. Publications may be mailed only to subscribers who have paid in advance. Hereafter no free exchange of "editorial exchanges" will be permitted, and editors must subscribe for publications other than their own if they desire to have them. Conservation of paper and the chemicals which go into the manufacture of print paper is the chief object in view. Yet, but a few weeks ago the Hon. Joseph Walsh of Massachusetts, in a speech before the House, accused our Uncle Sam of being the biggest paper waster in the country and made himself famous with this paraphrase of a one-time popular song: "Every Little Bureau Has A Bulletin All Its Own." The facts seem to be on the side of the Gentleman from Massachusetts, for Washington has had "bulletinitis" in its most contagious epidemic form ever since America got into the war. One official is credited with saying that the bulletins issued in Washington in one month would be almost sufficient to smother the kaiser and the whole Prussian army. The "Official Bulletin" sent out to the newspapers has long been a joke as a retailer of stale news, many weeks after such news has appeared in the newspapers and leading magazines. Probably a specific will be found for this wholesale bulletin making in time and the mails will be relieved of a big burden and a great saving in print paper will be effected.

We did not expect a great deal of the National War Emergency Poultry

Federation when it first opened its office in Washington to look after the interests of poultrymen, but we did think that the president and office manager, Reese V. Hicks, possessed sufficient good solid common sense to be immune to an attack of "bulletinitis" no matter how "catching" it might prove to be.



for poultrymen during the coming season. So keep up the fight for more and better poultry bred to Standard. Keep business going and boost your favorite varieties. By the time the war is over the poultry industry ought to be on a better foundation than ever before.



Sunnyside birds are profitable because "profit" has been the keynote of my efforts for 29 years. To secure it I have trapnested and pedigreed my layers in order to breed from none but the highest record birds. I have been successful in producing these profitable layers in large numbers, which enables me to offer them at about half what others ask for the same grade

Year-old Breeders for Foundation Stock

Barred and White Rocks, Brown and White Leghorns, White Wyandottes, R. I. Reds, from trapnested stock with records of 180 to 200 eggs, each.....\$3.00 210 to 249 eggs, each..... \$4.00

12-week-old Pullets, \$1.25 to \$1.50

Don't be a slacker or keep slacker hens. These pullets are from 200-249 egg stock and will be shelling out the eggs this winter when eggs are high. They will pay for themselves in no time, and you will still have the hen.

Grand Cocks and Cockerels out of record dams at half value

16 to 20-week-old Pullets... \$2.50 and \$3 each

Yearling Reds and Barred Rocks, "state-tested" pedigreed stock, \$3 in lots, with pedigrees.

2400-egg Candee Incubator for sale cheap

Special Offer—100 White Wyandottes, state tested, with records, \$300 for the lot

Order direct from this ad or send for catalog

Sunnyside Poultry Farm R. C. Blodgett, Prop. **Bristol, Vt.**
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TO OUR READERS.

Our subscribers are our friends and we use every effort to protect them in every way. We believe that every advertisement in this issue is signed by trustworthy people, and to prove our faith we will make good to our subscribers any loss sustained by virtue of their having purchased fowls or goods from one of our display advertisers.

All we ask is, that in ordering the fowls or goods, you mention to the advertiser that you saw the ad in American Poultry Journal; also that the purchase be made during the month or months in which the ad is inserted, and in case of loss notify us of the fraudulent misrepresentation of the advertiser, giving us full particulars as soon as it occurs. In all cases in writing to advertisers say, "I saw your ad in American Poultry Journal."

When the Federation's first "news service" bulletin appeared several weeks late, we thought there might be an excuse for it, possibly, as an aid in getting members for the organization. Alas, this alleged "news service" bulletin appears to be in a fair way to become a monthly affair and a fixed method of wasting good paper and of spending organization funds. If there is any excuse for "news service" bulletin No. 2, dated September and received at our desk October 7, it does not appear in the publication which in an announcement "To the Press" states:

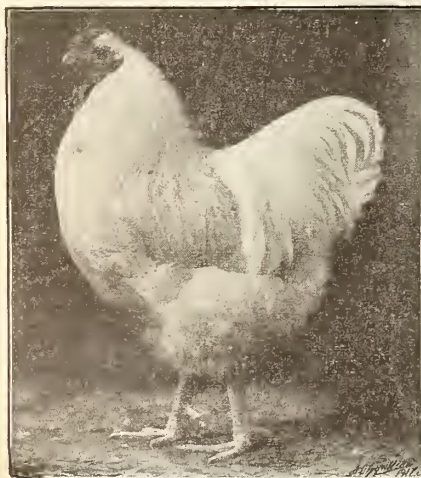
"The reports, abstracts, summaries and news items herewith presented are of immediate and unusual interest to the entire poultry industry. These items of news are for immediate release."

Of the alleged "news" in this bulletin we do not find anything which was not

A Regal Feat

Regal White Wyandottes

have always been consistent winners. This fall they scored a double victory. At the Canadian National, in a class of 28 cocks, 28 hens, 34 cockerels, 40 pullets and 6 pens, they won as follows: Cocks, 1-2-3-4, Hens 1-2-4-5, Cockerels, 1-2-3-6, Pullets 1-3-5, Pens 1, Best Display.



First Prize Cock at Madison Square Garden, December, 1916

At the great New York State Fair, in a large quality class, they won: Cocks 1-2-5, Hens 2-3-4-5, Cockerels 1-2-3-5, Pullets 1-2-3, Pen (old) 1, Pen (young) 1, and Best Display for the 13th time.

These winnings were made on two entirely different strings, proving conclusively that I have good birds by the hundreds, yes, thousands. To have large flocks of young birds fully matured by the first of September, means that I have winter layers. It also proves that these winter eggs are fertile and produce chicks that live and thrive under the adverse climatic conditions of severe Canadian winters. In other words, Regal White Wyandottes are real utility birds, but they are show birds as well.

My Dorcas line, after fifteen years of trap-nesting, will show records that compare favorably with any strain in the country.

5000 COCKS, HENS, COCKERELS AND PULLETS FOR SALE 5000

Cocks and Cockerels (choice breeding birds) \$8, \$10, \$15, \$20 and \$25. Hens and Pullets, \$4, \$5, \$8 and \$10.

Special Exhibition birds a matter of special correspondence.

100 acres devoted to White Wyandottes. My stock is all farm raised. Many birds now ready for show. Order at once and get first selection.

FREE—Send for 20-page Catalog

John S. Martin

BOX 51

Port Dover, Canada

already very stale long before the "news service" bulletin reached us, having already been published in the September poultry journals or in the daily press. It looks to us like a waste of print paper, time, labor and Federation funds and we hope it will be discontinued, unless it is possible to make it a real source of advance information on important subjects in time for publication before the "news" has already gone stale many weeks.

We do not see any purpose served by this alleged "news service" which could be better met, at far less expense, by a brief form letter mailed in good season from the Federation headquarters to the editors of the several poultry publications. One more bulletin added to the great mass already retailing stale "news" is only an added burden in war time. We hope those in charge of Federation affairs will wake up to this fact and promptly recover from "bulletinitis."

We believe that the Federation can and should do much good work for the poultry industry. Poultrymen should join the organization and boost for it. There will be good use for every dollar which the Federation can add to its treasury. By a common sense campaign of active, aggressive work this new "War Emergency Federation" could accomplish something. But it is not going to get anywhere by passive acceptance of the prevailing mania for publishing bulletins or by following the line of least resistance.

Either cut out the "news service" bulletin, Mr. Hicks, or make it really mean something and serve the "news" while it is "hot from the griddle." Give us a little real action instead of a horrible example of the bulletin habit. Personally we had rather receive one good newsy personal letter, even if we were told we could not print the information, than to receive a whole mail bag full of "news service" bulletins which repeat only ancient history. We have always looked upon the men now in charge of the Federation affairs as "live wires" in the poultry industry. Give us a few "sparks" from the "wire" before they cool off.

Wheat By-Products.

THRU July, August and early September we were urged to stock up with wheat mill feeds—bran, middlings, and "mixed feed"—to make sure of our necessary winter supply of these essential poultry and dairy feeds. A price was fixed f.o.b. Eastern points for such feeds, bulk in carload lots, with an additional charge for bags when supplied sacked.

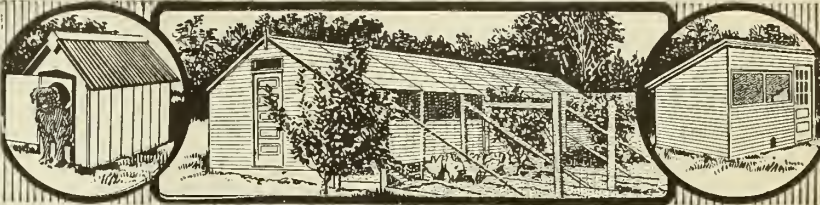
Water! Water!
 WHERE and WHEN you want it—for house, barn, field, all year 'round. **BORE YOUR OWN WELL.**
Standard Well-Boring Outfit
 Hand operated. Bores wells 8 to 16 in. dia. 40 to 100 ft. deep. One man bored 40-ft. well in 10 hours and put in casing.
BORES 100 FT. WELLS BY HAND
 One day's work pays for it
 Easy to get 50 cts. to \$2 per ft.—make \$20 to \$30 per day boring wells for neighbors. One man bored 75 wells, another has 3 ordered, another 6. Satisfied users in 46 states. Every claim guaranteed and proved. Write TODAY for information and testimonials.
 ★ Thousands used on war front by U. S. and English Governments. ★
THE SPECIALTY DEVICE CO.
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Smith's White Leghorns

NOW OWNED BY C. R. HOPKINS, OSAGE, IOWA

THE business, good will and flock of White Leghorns of Eugene Smith, of Aurora, Illinois, has been purchased by me and this stock is now on my farm at Osage, Iowa, including many of the winners at Chicago and St. Louis. This is the strain that has produced more winners at Chicago shows during recent years than any other, and has given the greatest satisfaction among customers. The stock this year is even better than ever, and I am prepared to furnish you with winners or utility birds of this remarkable strain at reasonable prices. Address correspondence at requests for catalog to

C. R. HOPKINS, Route A2, OSAGE, IOWA



Dog Kennel No. 4 Poultry House for 200 hens—5 units No. 3 Poultry House for 30 hens

THE only way to keep your poultry strong and healthy is to have their houses kept clean, and the ease with which Hodgson Poultry Houses can be cleaned is a feature which makes them so popular with poultry raisers.

Hodgson Poultry Houses are constructed with a complete knowledge of requirements. They are made of red cedar, vermin-proof, storm-proof, rain-tight and well ventilated. Send for an illustrated catalog.
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SPECKLED SUSSEX BRED FOR QUALITY

My birds are the correct shape and color. They are from Madison Square Garden and Chicago Coliseum winners, and my system of trapezising and marking each egg when laid, and hatching from only the best selected layers guarantees that they are good egg producers.

Show Stock : Breeders : Young Stock

I can meet your requirements in any of the above lines. Write me your needs today and send for circular
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Get the American Poultry Journal 3 years for One Dollar

I want to show you how to make Money with Poultry
T. E. Quisenberry

What Others Say.
 I can now save enough on feeds to pay for the entire course. **F. M. HILL, LaGrange, Ill.**
 I would not take the price of the whole course for the lessons on breeding and mating. **F. L. NOYES, American Fork, Utah.**
 I could have eeced about \$400 had I taken your course before I started. **FRANK SAWYER, North Woburn, Mass.**
 The knowledge I have gained from the disease lesson is worth the price of the course. **GEORGE W. MORRIS, Russellville, Ky.**
 I have been in the building business for 30 years but your lesson on Poultry House construction is the best I have ever seen. **E. M. WIGGIN, Kansas City, Kas.**
 Your lesson on baby chicks is just what we have been looking for. Last year we lost 650 chicks out of 1600. This year we lost 65 out of 1600. This is the result of just one of your lessons. **GEO. M. JONES, Secondock, Calif.**

A Complete Poultry Education

I have made it possible for you to obtain right in your own home, during spare time, a complete—thorough—and practical knowledge of poultry husbandry such as you could get nowhere else except at an agricultural college.

In a course of lessons taught by mail, I have completely covered the science of poultry husbandry and made it so plain and simple that anybody can understand it. I give you knowledge it has taken me a lifetime to acquire.

I show you how I make hens pay a big profit each year. I show you how I got 2,354 eggs from ten hens in a year. I show you how to feed for a big egg and meat production, how to select a site for your poultry plant and how to build your houses (right here I save you many times the price of the course)—how to get winter eggs and spring broilers—how to incubate and raise baby chicks—how to mate and breed—how to avoid and treat poultry diseases—how to show and win at poultry shows—how to dress and market poultry for the highest profits. In other words there is no phase of poultry culture that you are not taught thoroughly. Hundreds of our students tell us that each lesson is worth the price of the whole course.

You cannot afford to be without these lessons. They pay for themselves many times each season in increased egg yield—in preventing losses from disease—in knowledge. The broadest guarantee it is possible to write covers this course. If you are not satisfied you do not pay.

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Our Free Book "Dollars and Sense in the Poultry Business," fully explains how we can help you to make more money and save money raising chickens. It explains in detail just what our lessons teach you and what they can do for you. Just fill in and mail the attached coupon or send your name and address on a post card, no letter necessary, and a copy will be sent you by return mail.

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 Without obligation on my part send me a copy of your FREE BOOK.



The Leading Pen

(all varieties competing)

Second Best Individual Record

Best Monthly Record

five months in succession

192 Eggs in the Lead

over other Leghorns entered

THAT is the enviable and SUPERIOR record "HILLVIEW" Leghorns have made to date in the Missouri Laying Contest now running.

HILLVIEW WHITE LEGHORNS

ARE HELPING UNCLE SAM

The UNEQUALED RECORDS of our Leghorns, both in AMERICA'S GREATEST SHOWS and in the NATIONAL LAYING COMPETITIONS put "HILLVIEW" Leghorns in a class ENTIRELY BY THEMSELVES—FACTS ARE ALWAYS FACTS—when we say we have the world's most beautiful and leading laying strain of White Leghorns, we back up this statement with *actual performances!!* This is not a mere "lip message" to get you to buy; to get you to invest your hard cash in just ordinary Leghorns. Our arguments have a base, a REAL ROOT. Really careful breeding, strict attention to every single detail in mating, hatching, rearing and feeding. It has taken REAL HARD WORK to produce the HILLVIEW "STANDARD-BRED" LEGHORN of RIBBON-WINNING qualities and EGG-LAYING habits.

IN THIS WAR TIME you can't afford to buy anything but the very best! "Hillview" Leghorns ARE THE BEST.

HILLVIEW FARM is running full capacity, producing Single Comb White Leghorns of the Highest Possible Quality to the very limit of its equipment capacity. Thousands of birds are now ready to be placed in your hands so that you too can help and add to the much needed poultry products of the country; so that you too can "do your bit" to HELP WIN THE WAR.

We are prepared to furnish you BLUE-RIBBON WINNERS for any show in the country at the most reasonable prices—great big youngsters with long concave backs, neat five-point combs, well up on deep yellow legs, long hocks and pure white plumage; BIRDS that will WIN THE BLUE! Birds that will SHELL OUT EGGS and MAKE YOU A HANDSOME PROFIT on your investment.

Write for our free 24-page catalog today.

HILLVIEW FARM

Box 781
Bent, Illinois

O. J. LABAHN,
Seeley and Gen'l Mgr.

Those who attempted to stock up with wheat by-products, except in a few instances, were unable to buy, and the few who did secure a supply were obliged to pay considerably more than the stated prices. It developed that most mills sack their wheat by-products in process of manufacture and comparatively few could or would supply such feeds in bulk. The mills were permitted a better price on mixed carlots, and either could not or were not prepared to accept orders for straight carloads of any one feed. Also the sacked feed could be more economically shipped than the feed in bulk. Instead of eastern buyers being able to get middlings, for instance, at \$32.63 per ton in bulk f.o.b. Boston points, the lowest price which came to our knowledge at which buyers here could get orders filled was \$40 per ton, sacked, in carlots, plus freight from mill in the west. However wheat mill feeds were hard to get and cheap under the circumstances at any price we could get them for. The wheat feed shortage amounted to almost a famine.

It develops that there is necessity for strict economy in the use of wheat mill feeds in order that there will be enough to go around among the feeders who require such for dairy cattle, poultry and young calves or pigs. Altho much of the wheat is yet to be milled, there apparently may be a nation-wide shortage of wheat feeds, partly due to a greater percentage of wheat being used for flour making and partly to other reasons. Early in October farmers were asked to pledge themselves as follows:

"In order to assist the food administration in the distribution of mill feeds I hereby undertake on honor not to use wheat mill feeds for any other purpose than the feeding of dairy cattle, poultry, young pigs or young calves, or the preparation of a weekly bran mash for work animals. I will not feed any more wheat mill feeds than is customarily fed to such animals, and I further agree not to have at any one time more than a 60-day supply of feedstuffs on hand."

That "60-day supply" clause is hard on the man who has been able to lay in a winter's stock of feeds for his herds and flocks, but we believe that the intent is only to prevent a few from hogging all of the wheat feeds. A recommendation is made that more of the standard commercial mixed feeds be utilized in the feeding of farm animals. Most of us have been going pretty close to the limit on that already.

Wheat mill feeds are necessary for dairy cows if we are to get the best returns in milk and butter. Bran and middlings are needed in poultry rations, particularly where we have to do without feed wheat, and also in the feeding of young stock. Undoubtedly there are some poultry feeders who could feed less bran and middlings to their flocks and still get practically as good results.

In any event it is apparent that the food administration believes that there is and will continue to be a considerable

LICECIL

The Poultry Lice Exterminator

Merely hang a bottle near the roosts. The gas kills the lice and mites—no injury to the birds. Price—delivered—One bottle, 75c.; Three bottles, \$2. Order today. Address nearest office. Circular free.

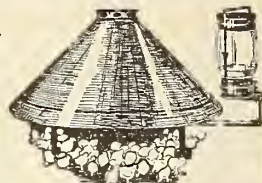
Box 35 **LICECIL MFG CO.** Box 35
Germantown, Phila., Penna. Quincy, Illinois

LIBERTY Oil Burning BROODER

Blue Flame Wickless Oil Heated Colony Brooder

Automatic Regulation

The LIBERTY is designed to meet the emergency in the existing coal crisis.



Change your Coal Brooder into a Liberty Oil Burner

Big saving in operating expense. Brooding 50 to 1000 chicks for less than 6c per day. Perfect satisfaction guaranteed or money back. Circular on "Scientific Brooding" with Oil or Coal Burner on request.

Liberty Stove Co. 102 S. Third St. Philadelphia, Pa.



1st Cock Madison Square Garden

Black Langshans

I am not expecting to show this season. Will offer all my choice show birds for sale.

Better engage them now. New catalog

M. S. BARKER Thorntown, Ind.

Royal S.C.B. Minorcas



2d BLACK MINORCA COCK
Coliseum, 1917

A grand lot of young birds for sale, bred from and in line with the birds that have won at CHICAGO SHOW since 1914. Also a few choice adult birds. Prices very reasonable. Shipped on approval always. Write for prices.

ROYAL Poultry Farm

Box 500, Ossian, Ind.



PURITAN POULTRY FARM R. 2 ZANESVILLE, OHIO

S.C. White Leghorns

Exclusively for 18 Years We offer yearling hens and cockerels. Eggs will be high this winter. Puritans will produce for you at this time. We have bred long enough to know.

WRITE US

Cockerels Cockerels

S. C. W. Leghorns exclusively. Vigorous, healthy, utility males at \$1.50 and \$2 each, \$16 and \$21 per dozen.

Order direct or send for free catalog.

The Elliott Poultry Farm
Route 7, Box 87, Mansfield, Ohio

shortage of wheat mill feeds. The new lots which are coming on the market are being sold at the fixed prices for such feeds, which the higher than we at first were led to expect, are easier than we have been paying for many months. Wheat feeds being cheaper in price than other feeding stuffs, as a rule, there will be a tendency to use such wheat feeds to the exclusion of other feeds, which is just what the food officials wish to prevent. They desire to equalize distribution and allow all feeders big and little to share alike. The pledge to use wheat feeds economically is a voluntary one, made on honor, and no one has any reason to raise any serious objection to it. We believe that any feeder who can show that he is only stocking his normal requirements should be permitted to carry more than a 60-day supply if he is so located that it is better economy all around for him to do so. The man on a farm remote from market and subject to long hauls and difficult freight transportation should receive more consideration than the man located close to a good grain market.

We understand that if all feeders cooperate to conserve and feed sparingly the wheat mill feeds, we may expect such wheat by-products to continue at present fixed prices, while if there is any considerable violation of the voluntary pledge asked, the fixed prices on wheat by-products may be removed and the price of wheat feeds be permitted to soar in accord with the law of supply and demand.

Evidently there will not be available a large supply of wheat mill feeds during the coming season. It is only fair that all should share alike and most feeders will want to do the right thing. Use bran, middlings and "mixed feed" in your poultry and dairy rations and for young stock as you find it necessary to use them, but use such wheat feeds economically and without waste. It is reported that the western feeders near milling points have been absorbing most of the wheat feeds because of the lower price and convenience in securing supplies. With the reported probable shortage of such wheat mill feeds, these more favorably located feeders, as well as all others, should willingly agree to the pledge asked by the food administration and practice economy in use of wheat by-products, along with the rest of us, in order that there may be enough to go around.

All any of us should ask or expect is a square deal and equally fair treatment for everybody in the distribution of both feedstuffs and foods. Just now, and for some time past, the man who

WALHALLA

Buff Orpingtons



Buff Minorcas

The Strains of Quality

AGAIN WE MAKE A GREAT RECORD

At the Tri-State Fair, Sept. 23 to 28, 1918, Memphis, Tenn.

We won every First Prize offered in both varieties, had 32 entries and captured 38 ribbons. How's that?

Buff Orpingtons		Buff Minorcas	
Cocks	1-2-3	Cocks	1-2-3
Hens	1-2-3	Hens	1-2-3
Cockerels	1-2-3	Cockerels	1-2-3
Pullets	1-2-3	Pullets	1-2-4
Old Pens	1	Old Pens	1-2
Young Pens	1-2	Young Pens	1-2-3

We also won all Club Specials offered in Buff Minorcas. Best Buff Minorca in show, Best Cock, Best Hen, Best Cockerel, Best Pullet and Best Pen.

A great winning in a strong class after going over 1000 miles in shipping coops. Again you wonder why we can make such wonderful winning. It is the combination of blood lines that will produce such wonderful birds.



No! You Can't Buy These Birds!!

Look at Their Records and Production



1st Cockerel, Chicago Coliseum, 1917.
Winner of cup for best shaped Male.
2d Cock, Memphis, Tenn., 1918.
Sire of 1st Cockerel, Memphis, 1918.
Sire of 1st and 3d Pullet, Memphis, 1918.
Sire of 3d Cockerel, Memphis, 1918.
Sire of 1st Young Pen, Memphis, 1918.

1st Cockerel, Detroit, 1917.
1st Cockerel, Chicago Coliseum, 1917.
2d Cock, Memphis, Tenn., 1918.
Sire of 1st and 3d Cockerel, Memphis, 1918.
Sire of 1st and 2d Pullet, Memphis, 1918.
Sire of 1st and 3d Young Pen, Memphis, 1918.

But you can buy one or more of their sons or daughters

A breeder who wants the best, who wants to begin at the top, ought to buy his birds from a real producing strain which has proven its merit along this line. It is not what you pay, but what you get for what you pay that makes your poultry venture a real investment.

We are in a position, as we have never been before, to furnish you winners or breeders in young or adult stock which will prove satisfactory. Engage your winners early and be assured of success at your next show. State your requirements early, while our line is complete. Write for our Fall Sale List.

WALHALLA POULTRY FARM EDWARD F. SCHMIDT, Mgr. OSCODA, MICH.

We have decided not to exhibit in competition this year at the Chicago Coliseum, but we will have there a large display in both varieties. Don't fail to come and see our display.

BUFF ORPINGTONS—Golden Nugget Strain

A GRAND LOT OF BIRDS FOR SALE in either sex. I guarantee satisfaction or refund your money. Write me your wants in BUFF ORPINGTONS before placing your order ANYWHERE.

LOGAN BAIRD

Box A

LA MOILLE, ILL.

Rose Comb

ALMY'S REDS

Single Comb

COCKERELS and PULLETS, Cocks and Hens

Single Birds, Pairs or Pens—The Kind That Win

RED FEATHER FARM

F. W. C. ALMY, Prop.

Box 100

TIVERTON-4-CORNERS, RHODE ISLAND



First Prize

As a Prized Winner

Nine first prizes out of a possible ten, for eleven consecutive years at the great Madison Square Garden, New York, Poultry Show, is the premier performance of the Sheppard strain of Anconas. Hundreds of owners of these birds win great success at state and county fairs and smaller shows. The same strain of

Sheppard's Famous Anconas

are most noted layers of large white eggs. And they're very attractive in their grace and activity. Start with these Anconas this late summer or fall—and make the right start by getting my free book right away.

H. Cecil Sheppard, Berea, O.

is located at a distance from supply centers and the big markets is decidedly at a disadvantage.

Eastern Fall Fairs Hard Hit.

THE EPIDEMIC of Spanish influenza which swept over the Atlantic states early in the fall, starting in New England, hit many of the fall fairs and poultry exhibits a hard blow.

So prevalent and fatal did the plague prove to be that health officials found it necessary to close schools, churches and all places of amusement where crowds might gather. Many fall fairs which hold poultry exhibits were obliged to cancel dates. This was a hardship to many breeders of exhibition poultry who were caused some expense and loss thereby, but there was no complaint and no reason for any. The plague simply had to be checked and brought under control and everyone was glad to do his bit to help fight the epidemic.

At present writing—the second week in October—the influenza appears to be under control and with favorable weather the danger should be past by the time this is published. The forced closing down of fairs and other places where crowds congregate will do no harm, the small losses of a few individuals are nothing compared with the big gain for the people as a whole. Interest in the winter exhibitions will be greater than ever in consequence of the closing of some of the fall fairs, and next season, under much more favorable conditions, we hope and trust our fall fairs should be bigger and better than ever.

Don't Overlook Opportunity.

NEVER be misled by the saying that "Opportunity knocks only once at your door and then passes on." That may have been true in earlier times, but we doubt it.

Opportunity knocks many times at your door every month in the columns of AMERICAN POULTRY JOURNAL. You overlook and neglect your opportunities if you fail to read A. P. J. carefully, advertising columns and all, each month. Advertisers are offering bargains in necessities of all kinds. Breeders are presenting unusual opportunities for purchase of desirable breeding stock in all the leading Standardbred breeds and varieties.

Don't overlook your opportunity. If you intend to make a start with poultry the coming season, better invest in breeding stock now. There is still time to get good delivery and have your stock safely housed in its new home before the more severe winter weather sets in. The prices are right and it is a good time to buy. Both adult and young stock is now available for prompt shipment.

Make the most of your opportunities now. Poultry culture promises to be both interesting and remunerative in 1919, and most certainly increased production of poultry and poultry products is going to be needed.

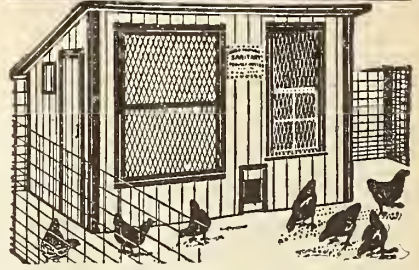
Barred Wyandottes White Wyandottes

—PRIZE WINNERS—GREAT LAYERS—

On Whites won 4th and 5th cock, 1st old pen, 3d young pen at Trenton in strong competition. Our Barreds are running uniformly well this year. Breeding cockerels and pullets, \$5 and \$7 each; show birds, \$10 up.

Cauldalin Farm, Convent, N. J.

Don't Build—It's Cheaper to Buy Potter Redybilt Poultry Houses



A \$43.00 House, Painted

You can buy Portable Houses, Sanitary Roosting and Nesting Fixtures, Coops, Hoppers, etc., **cheaper than you can build. Houses, \$16 up. Complete hennery outfits, \$3 up.** Used over 10 years by thousands of successful poultry keepers. Start right.



Get the world's best poultry equipment at the lowest prices.

Makes it easy and inexpensive to start in the

chicken business. Send 4c in stamps for large 100-page Poultry Equipment Book. **POTTER & CO., 10 Forest Ave., Downers Grove, Ill.**

A SURE DESTROYER IS Licene

BECAUSE—

LICENE is LIFE to the chicken and DEATH to lice.

LICENE is applied twice a year; kills lice and nits and cleans Scaly Legs more effectively than any other known remedy.

LICENE is easy to handle and easy to apply. LICENE costs less and accomplishes more.

100% GUARANTEE

If LICENE does not destroy every louse and "nit" or does not clean Scaly Legs, we will, within 30 days, refund your money and no questions will be asked.

Price 60 cents a tube, enough for about 150 to 200 birds. Delivered by mail. **The Licene Co., 1500 Pontiac Bldg., Chicago**

Biddy's Friend Hatcher and Brooder Coop

Don't run the risk of losing valuable hatches either thru rats or other reasons by using improper coops. Different from any other coop. First used for hatching and then as a brood coop.

Secure the Agency

and have a profitable income on the side. Send today for circular containing further information.

A. J. VAN ACKEREN, CEDAR RAPIDS, NEB.

Golden Pheasants

I have 4 pair of year-old, full-grown, wonderfully fine birds in full plumage which I will dispose of at \$20 per pair. Here is an exceptional opportunity to secure a start with these beautiful and profitable birds.


FRANKLYN R. MULLER, WAUKEGAN, ILL.



KNOWN FROM COAST TO COAST
C. P. SCOTT
PEORIA, ILL.
ROUTE 36, BOX A

Mention the American Poultry Journal when writing to advertisers.

WARNECKE'S



BARRED PLYMOUTH ROCK

BRED FROM LADY WARNECKE

The Hen That Laid 50 Eggs In 50 Days

SAVE MONEY!

Buy your **COCKERELS** NOW **\$3 to 10 EACH**

M. H. WARNECKE
216 S. 10th Ave., Maywood, Illinois
Near Chicago



Colored Big Double Number Poultry and Pigeon Bands; New coil Baby Chick Bands—not numbered. 12 colors. Try the modern way, you will like them. Very efficient. **SAMPLES FREE.**

ARTHUR P. SPILLER Box A Beverly, Mass.

1894 1918

COLUMBIAN WYANDOTTES

FINEST QUALITY FREE CATALOG

H. A. D. LEGGETT 24 N. Nash Place Burlington, Vermont

**DR. WOODS' NOTES
AND COMMENT**

The Building of the Ship.

Our hearts, our hopes, are all with thee,
Our hearts, our hopes, our prayers, our tears,
Our faith triumphant o'er our fears,
Are all with thee—are all with thee!
—Longfellow.

Welcome, Indian summer! This is one of the finest seasons of the year, the few warm days before the arrival of real winter, but all seasons are good, though we like cold winter least of all.

Thanksgiving! Make it a memorable one. It doesn't matter whether the dinner be turkey, prime fowl, fat capon, roast goose, or just plain plump chicken, this is the season when well-fatted poultry should come into its own. Eat more poultry and eggs and so conserve beef and pork.

Our grass land laid down the second week in September is showing the effect of the fall rains and is putting on a nice soft green carpet. A mixture of red top, timothy, and red clover, it should make good hay next season if we can only get poultry manure enough to keep it coming. We laid down about three acres with grass seed this fall, but we don't like to recall the cost of plowing and harrowing to prepare the seed bed.

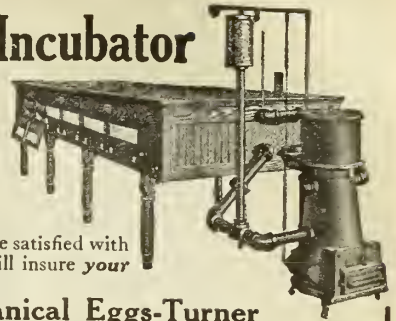
New York State Agricultural College has made a splendid exposition of the cost of raising a dairy cow. We wish someone would be equally thoro in showing the cost of raising an average American class pullet to laying maturity. The cow cost was figured when feeds and foders, as well as labor, were cheaper than now, but the table is valuable just the same. In spite of what some folks seem to think, cows and hens raised on the farm are not "grown for nothing," they cost money in somebody's time and somebody's feed and fodder which would bring money if sold. New milch cows are today selling around \$200 to \$250 in our section and they don't show any big profits at that price. Here is the table of cost of raising a cow, if you want to figure it for your home locality, just figure it at present day costs of feeds, fodder, etc.

Amount Used in Raising			
	Cow	Price	Cost
Whole milk,	433 lbs.	\$3.04 per cwt.	\$13.32
Skim milk,	212 lbs.	.75 per cwt.	1.59
Grain,	589 lbs.	59.00 per ton	17.38
Silage, etc.	1,777 lbs.	8.00 per ton	7.11
Hay, etc.,	3,558 lbs.	18.00 per ton	32.02
Human labor,	52.5 hours	33 per hour	17.32
Other costs—bedding, horse, labor, use of buildings and equipment, interest on heifer and feed, value at birth, losses due to death, miscellaneous charges, less value of manure.....			17.79
Total cost of cow.....			\$106.53

In considering above remember that today in our section the low price on grain for

NEWTOWN Giant Incubator

Hatches the Most Chicks—
The Best Chicks—
With Least Labor—
And at Lowest Cost—



You cannot ask or get more; you should not be satisfied with less. Newtown efficiency and economy will insure your success.

The Newtown Mechanical Eggs-Turner

is a big labor-saver. Where other large incubators are used, much time must be spent in turning the eggs twice daily. The *Newtown Mechanical Eggs-Turner* has changed this. Take ten seconds to turn the crank and all eggs in the machine will be turned better than you can turn them by hand. No eggs are cracked or dropped and broken. No "bunching" on the trays.

Read this Report from Michigan Agr. College

"Relative to our hatches with the *Newtown Giant Incubator*. We have brought off three in all. The first gave us 92% of the fertile eggs, second 91%, and the third a little better than 92%." "The incubator gives us chicks that can be shipped by parcel post as far as Texas, W. Colorado and Northern Minnesota. The greatest number found dead,—in shipments ranging from 200 to 400 chicks,—no more than four. We are very enthusiastic about the *Newtown Giant*."

(Signed) C. H. BURGESS, Assoc. Prof. of Poultry Husbandry.

If you demand highest efficiency plus economy and certainty, write for complete Newtown catalog today. Please state the size incubator in which you are interested. Remember, it is to your advantage to place your order early.

NEWTOWN GIANT INCUBATOR CORP'N
21 Warsaw Street Harrisonburg, Virginia



TYPE TELLS That is one of the reasons why the several hundred birds at Sunnyfields Farm, Wallingford, Connecticut

are ready to win for you. We have the best in

Wh. Orpingtons : S.C.R.I. Reds : Wh. Laced Red Cornish

Our HALF PRICE SALE is now on. Send for catalog.

BUFF ROCKS

WON EVERY FIRST PRIZE OFFERED at Kansas City Show. Pronounced by Judge Drevenstedt best class he

ever saw. First prize winners at Madison Square Garden, N.Y.; Palace, Chicago; Kansas City; World's Fair. Two pullets at Mountain Grove laid 229 and 201 eggs each. Get my catalog.

C. R. BAKER Box A ABILENE, KANSAS

Myers' Barred Plymouth Rocks

Lady Beautiful Strain Consistent winners for years at the big shows.

Single Birds, Trios or Breeding Pens. Hatching Eggs. Write for catalog and mating list.

C. N. MYERS Box A HANOVER, PA.

3 years—36 issues—of American Poultry Journal for \$1

Sabrina Farm White Wyandottes Combine

Beauty <-> with Utility

- 1st Hen
- 2nd Old Pen
- 2nd Young Pen
- 4th Cockerel
- 4th and 5th Pullet
- 2nd Best Display

First Farmers' Flock
SPECIAL PREMIUM
FOR
Best of All Farmers' Flocks, 36 Competing

AT THE

New York State Fair, Syracuse, 1918

Our Birds Are Heavy Layers And Are Standard Bred

We offer at reasonable prices both

Utility and Exhibition Stock

Write for our price list

ARTHUR H. SHAW, Prop.
Wellesley, Mass. Office at 502 GROVE STREET

COMMON SENSE

You CAN get More Eggs!

There's a reason for everything. If your hens aren't laying it's because they're not getting the kind of rations that makes eggs.

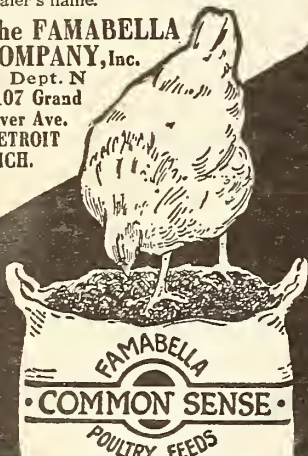
When you start to use

Common Sense Scratch Feed and Egg Mash

your hens will start to lay more eggs than ever before. There's a reason for it—COMMON SENSE SCRATCH FEED AND EGG MASH contains the food elements in the right proportions that long experience and experiments have proved necessary for healthier hens and more eggs. Thousands of experienced breeders have testified to that.

What we claim for COMMON SENSE FEEDS we guarantee—there's a written guarantee in every bag; if you're not satisfied that COMMON SENSE SCRATCH FEED AND EGG MASH produces more eggs and healthier hens than you ever had before—we'll buy back what you haven't used and pay all transportation charges. Isn't this inducement enough for you to at least try COMMON SENSE? Tell us where to send samples and our descriptive booklet—and send your dealer's name.

The FAMABELLA COMPANY, Inc.
Dept. N
1107 Grand River Ave.
DETROIT MICH.



cows is between \$59 and \$70 per ton, with cow hay around \$29 to \$35 per ton, and human labor for farm work bringing 50 cents an hour. When we look facts in the face \$200 is not such a big price for a good milch cow just in that. But the same plan of cost, figuring on your pullets at laying age, and you'll begin to feel that a good healthy pullet ready to lay is very cheap at \$3 and quality pullets should easily be worth not less than \$5 each—considerably more than that if of exhibition quality.

Just to interest yourself look over your accounts for 1918 season and find out what your pullets cost you. Take the case of an American class pullet which reaches laying age at seven months old and about 6 pounds weight. You can figure costs on approximately the following items:

- Value as a baby chick.
- Grain and feeds, including animal food, 48 lbs.
- Human labor, at approximately half a minute per day per pullet, 2 1/4 hours.

Figure the cost of housing and use of equipment, interest on investment, value of use of green range, losses through death, and miscellaneous expenses less actual value of manure and add that to above costs. Doesn't the average healthy pullet at laying age seem cheap at \$3?

Cull the flocks and fatten the non-producers for the Thanksgiving day trade. Two weeks on whole corn in abundance, with a little beef scrap, grit, and plenty of drinking water, will turn the trick. Keep them penned so that they will not waste the flesh they are making in overmuch exercise.

Do not try to do entirely without wheat feeds or feed wheat in the poultry rations. Some sort of wheat feed is essential to best results. There seems reason to believe that there may not be sufficient wheat feeds to go around throughout the season, unless they are used very economically and some means is taken to equalize distribution. If "standard" middlings are used in the mash less bran or no bran at all will be required, for standard middlings contain a good deal of reground bran as well as ground screenings. If a fair amount of feed wheat is available for mixing with the scratch feed, less bran and middlings or wheat "mixed feed" will be required in the mash. If wheat "mixed feed" is used in the mash, the bran and middlings may be eliminated. Where corn and oats are the staple feeding grains the poultry should have a fairly good percentage of wheat feeds in the mash. If the mash is largely corn meal and oats or corn and cob meal, use feed wheat more liberally in the scratch grain. While poultry will do quite well on a corn and oats ration with occasional feedings of barley and buckwheat when available, we do not believe it wise to use continuously an exclusively wheatless ration. We do not understand that poultrymen are asked to make their rations wheatless, merely to use feed wheat and wheat by-products economically and not to use them in excess of actual needs and customary usage.

One of the best mashes for laying or stock birds at this season of the year may be made by boiling cut potatoes in their jackets in a big iron kettle out of doors and then making into a crumbly mash with a mixture of corn chop and standard wheat middlings, about equal parts. Use the liquor in which the potatoes were boiled for mixing the mash and crush the potatoes in it. If about 10 percent good beef scrap is boiled with the potatoes, it makes an even better mash. Waste pumpkins, squash, beets, etc., can be utilized in the same manner to the advantage of flock and owner. Commercial mash mixtures may be used for stiffening the vegetable brew if desired. Feed what the fowls will clean up quickly once a day. It is best served freshly cooked and warm.

We have never permitted gunning on our farm, altho our point is one of the best black duck and wild goose stands on Silver Lake. However our boy, just turned fourteen, has reached the shotgun stage of development and is beginning to keep the larder stocked with game of various sorts, while also turning to trapping and saving different sorts of pelts. Already he has furnished us with a brace of wild ducks and we are looking for a Canadian wild goose soon. The geese are either not as plentiful as usual this season or are rather late in going south.

Longfield R. C. Reds

Now ready with a choice lot of early hatched birds for the Fall and early Winter Shows. Bred from and in line with the birds that have won more than half of all First Premiums on R. C. Reds at the GREAT CHICAGO COLISEUM SHOW since 1911. Also a few choice adult birds. Priced reasonable and shipped on approval. Write for catalog.

LONGFIELD POULTRY FARM
Box 321, BLUFFTON, IND.

Summer Sale of Hens at bargain prices. You can't overlook this sale. THE WINNING KIND. : : : BUFF ORPINGTONS. T. W. ROGERS Box A LAMONT, IOWA

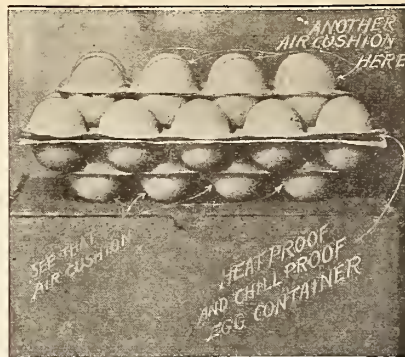
STANDARD FOWLS.
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Our Canada Cap yellow flint corn and Rhode Island smoky white flint corn have both matured fairly well this season in spite of severe late and early frosts. These are the best two sorts of flint corn for planting in localities where the season is short and fickle. Our corn has matured well, the ears are well filled to the tips and the grain is hard and firm. Some that was husked and hung in the kitchen is dry enough to mill. We haven't all our corn harvested and husked yet, not so much because of the size of the crop, for we could do with much more than we have, but chiefly because of difficulty in finding time for harvest work. Labor simply cannot be had for farm work. The yellow flint corn makes a fine meal and is excellent for stock feeding. It gives a fairly good yield of good long ears. The smoky white flint corn is the most wonderful producer we ever had. Often two good ears on a stalk and sometimes three. This variety is inclined to sucker profusely and to grow ears on the suckers close to the ground. Some of it formed imperfect ear corn on the tassel, and we had more or less double, triple and even quadruple ears in the same husk. Of course these freak ears produced only feed corn fit for immediate use. This white corn sports red ears freely. It matures quickly and hardens rapidly, the ears are rather shorter and bigger round than the yellow flint. It makes an excellent meal for making cornbread and Rhode Island johnnycake when the corn is thoroughly cured and dry. The meal is quite sweet and when mixed with whole milk or cream for making johnnycakes ("griddle cakes" in some localities) it requires little or no sugar. As for season, it is the best short season corn we know of. We had a hard frost and freeze on the morning of the first day of summer, June 22, when our corn was under ten inches high, and our early potatoes were in full bloom. Big bonfires of hardwood all over the place all night long helped to protect our crops. We did not lose by the freeze tho most of the folks around here did. Then we had another killing freeze on night of September 11, which killed our neighbors' corn but only touched ours lightly. Yet in spite of this short season both the white and yellow corn matured and ripened well, except a short piece which was too close to a pine grove. The seed we used was grown on the farm of a poultryman in a neighboring town.

Last spring M. C. Wilson, Oil City, Penn., sent us a few ears of a yellow sweet corn which he has been developing. He directed us to fertilize it liberally with R. C. White Leghorn droppings, but as we hadn't any we used a good mixture of White Rock and Black Langshan dressing with excellent results. We never had finer sweet corn nor any which kept in season longer. It was not so early as some but when the corn came it lasted until killed by the frost. The stalks were a rich green, striped with deep red in most cases. Usually two good ears to a stalk and sometimes three, the ears of good size and well filled. It went so well on the table and remained tender for so long that we did not mature as much seed as we want for next year. The early frost caught the corn too soon, but we hope we have enough to make a good patch next spring. We do not know the name of this excellent sweet corn. Perhaps Mr. Wilson will advise us later on that subject.

Give liberal feedings of whole corn on cold evenings, which warn of colder nights. See that the birds go to bed with full crops. Buckwheat is a good variety feed for use in cold weather.

If the pullets are not producing as they should, boost them a little by encouraging them to eat more. See that they have plenty of concentrated mash as well as good scratch grain and some succulent vegetable food. It takes liberal feeding to get eggs. Pullets cannot make eggs on kind words, bureau bulletins, and just enough food to keep them alive. They need grain, mash, meat food, greens and water in abundance, and all of the food must be wholesome in quality.

Birds intended for the winter shows should be in training now. We do not believe in close confinement when birds are being conditioned. Accustom them to cooping in coops of exhibition size, but let them out now and then for exercise. Get them used to handling and train them to pose to show their points to best advantage. Feed them enough wholesome food in variety to keep them in good order and up to weight, but do not feed heavily on concentrated stuffs which will get the females to laying and the males to growing beefy combs. Be gentle in handling the birds and groom the plumage by stroking with a soft cloth. Keep the coops and pens supplied with clean straw litter. Male birds which are to be shown with females should be accustomed to their coop mates. With a little care and patience even wild specimens can be trained to pose and not to fear handling. The well

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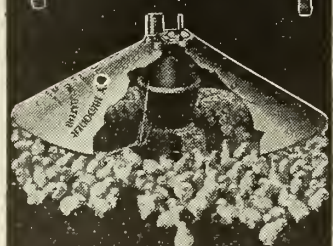
The Buckeye is a scientific Oil Burner that raises healthy, vigorous chicks. Dead air space insulates against cold. Fumes from oil burner never reach the air which chicks breathe. Constant current of warm, fresh air for chicks. Low in price and very inexpensive in operation. Will give perfect satisfaction. See catalog for details.

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(3)



If you receive any inquiries from this neighborhood you may refer them to me. I have a Buckeye Incubator and it is giving me splendid satisfaction. I hatched 96 chicks from 97 eggs and the 97 egg was broken.
MRS. W. W. TERRY,
ROCHELLE, TEXAS

I only lost three from the first 450 chicks I raised this spring with a Standard Colony Brooder. I now have three brooders and will need three more next season, and can assure you they will be the Standard.
L. L. WINSLOW
SARANAC, MICH.

Questions and Answers
 Conducted by
 Prince T. Woods, M.D.



Questions about poultry are answered in this department free for all readers of American Poultry Journal. Where answers are desired by mail, a stamp for reply is requested. Address all query letters to the managing editor, Dr. Prince T. Woods, Lock Box 4, Silver Lake, Mass.

Keeping a Flock on Shares.

Q. Would like to have your opinion on following: A neighbor of mine is moving to town and wants me to keep 12 pullets and a cock bird (Barred Rocks) for her. What proportion of eggs could I allow her?

A. We do not like agreements to keep live stock made on a share basis. Several times we have had farmers keep flocks of fowls for us and in every case the farmer has had all the produce of the flocks for his trouble. We have always considered that he earned all the eggs produced by keeping the fowls and returning them to us in good condition. Unless your neighbor pays for the feed, should not consider that she is entitled to a share of the eggs.

Under present day conditions, if anyone were to bargain with us to keep a flock of fowls for them, we would not even consider undertaking it unless the owner of the fowls agreed to pay for all the grain and feed required for the flock. The owner would have to stand all risk of loss thru sickness, accident, etc., furnish packages for shipment of eggs and pay transportation on them. In such case the owner might fairly expect one-half of the eggs produced.

As you state your case, it is our opinion that you are entitled to all eggs produced to pay you for accommodating the neighbor by keeping and caring for the flock until she takes them off your hands. Perhaps you should also have compensation for your trouble, but that is for you to say.

Torn Backs.

Q. A number of my hens have badly torn backs. What is the cause and the remedy?

A. The torn backs are caused by sharp edges and points of toenails of cock bird. Sometimes caused by long sharp spurs, but more often by razor-edged toenails. Very heavy males are most likely to cause trouble. With knife and file blunt the sharp points and edges which cause the trouble. Remove injured hens from flock. Cleanse the wounds thoroly. Freshen the edges of the tear and trim off ragged parts to leave smooth edge, then sew up wound with sterilized white silk. Remove the stitches when healing has

fixed edges of wound in place. Keep hens away from male until injury is completely healed and skin is free from scab.

Defects in White Wyandottes.

Q. (1) I am very much interested in White Wyandottes but do not know anything about them. Are there two distinct breeds, single and rose comb? This spring I bought two sittings of very fine world's champion eggs from individual hens at \$1.50 each. Four of the chicks have single combs.

A. (1) The White Wyandottes are very excellent fowls, both as egg producers and as table poultry. The Standard requires rose combs for all varieties of Wyandottes. The rose combed fowls throw some single combed "sports." Such should not be used for breeding purposes.

Q. (2) I notice, too, some with green legs and one chick with feathers on its legs. I do not even feel sure of the few others that look to be pure bred.



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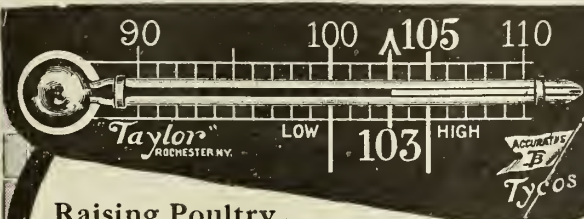
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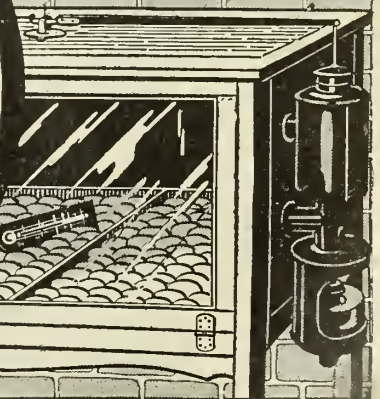
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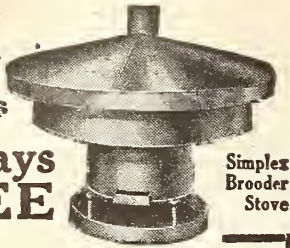
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Use the new 1919 Simplex Brooder Stove on your own hatch for thirty days free. Raise 20 to 50 per cent more chicks at 1-5 the cost, 1-10 the work and 1-4 the operating expense. Small and large broods. Three sizes of stoves. Try our stove under all conditions and if you are not delighted send it back and we will cheerfully refund your money.

Turn Losses Into Profits

This wonderful brooder will raise 50 per cent more of your chicks than you have been able to raise under the old fashion methods. No more deaths from white diarrhoea and poor ventilation. It turns the losses from dead chicks into big profits for you. The Simplex soon pays for itself by the extra money it makes for you. The Simplex Brooder Stove burns kerosene oil, natural or manufactured gas, automatically regulated to insure an even temperature with the least possible attention.

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Write today for valuable free brooder book and catalog. It tells how to increase your profits by decreasing mortality. Tells how to save chicks you have been losing each year through disease and faulty brooding. How to make more money. Also catalog and details of 30 days trial free. No obligations. Write now.

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R. C. REDS

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Meyer's Famous R. C. Reds

Our Pen No. 59 holds the Highest Official Red Record ever made in any laying contest.

Our pen No. 22 was first prize pen 1916-17 American Laying Contest. Our hen No. 6 in the Missouri National Egg-Laying Contest laid 114 eggs in 120 days. This shows that Meyer's Reds are leading all others. They are the world's supreme. They win first year after year, in competition with the best blood in the world. We have the finest lot of young stock we ever raised. If you wish the best, write us your wants.

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Natural Hen Incubator \$3



No freight to pay. Actual hen controls everything. No lamp, no costly mistakes. Best batcher in the world. Over 850,000 in use.

M. Pepp, Ill., writes: "It is the best thing I ever saw for hatching chicks."
Another: "I got 507 chicks from 540 untested eggs."
Thousands of other testimonials. Agents Wanted.
To reach the million mark in 1918 we will send you a Special Introductory Offer with our Free Catalog.

Natural Hen Incubator Co., Sta. H, Dept. 4, Los Angeles, Cal.

GENSCH'S Single Comb White Orpingtons

Sensational Winners at Chicago Coliseum, Grand Breeders — Half Price

A good chance to get the best cheap.

F. M. GENSCH - OMRO, WIS.

White Orpingtons Champions of New England.

Winners at Boston and largest shows past five seasons. Fine show stock and breeders for sale. Send for list. JOHN R. JOHNSON, South Windham, Maine.

Mention the American Poultry Journal when writing to advertisers.

A. (2) Green or greenish legs and feathers on shanks or down between the toes are defects noticed in a number of strains of White Wyandottes. Green legs, stubs, down and feathers on legs disqualify the specimen but do not necessarily mean that it is not pure bred. Such defective birds are culls. No matter how good the breeding stock may be a rather considerable proportion of the progeny will have to be culled out for defects. The proportion of specimens which will closely approach the Standard ideal will be small. This is one of the reasons why specimens which very nearly fill the requirements for Standard perfection bring high prices. The difficulty in securing first class exhibition specimens in any breed is a part of what makes breeding Standard breeds worth while and adds to the pleasure and interest of breeding good fowls. We should lose much of our satisfaction in producing good ones if such were easily obtained without the exercise of patience and skill in breeding.

Q. (3) Is very red skin all right for Wyandottes?

A. (3) No. The skin of the Wyandotte should be yellow. Head gear should be bright red. Red blood vessels and pigment may show at sides of the yellow shanks. Old fowl may show red skin on abdomen and about rump at molting time. White skin is a not uncommon defect. Chicks that are not fully fledged, slowly feathering young males, sometimes show very red skin on bare parts due to sunburn and exposure to weather.

Q. (4) Would you advise toe-marking chicks with a poultry punch when they are 4 months old or older? C. W. Charlottesville, Va.

A. (4) Would not toe-mark chicks with an ordinary poultry punch except soon after hatching. Toe-marking half-grown stock is seldom satisfactory as the holes are likely to skin over and be lost. A fairly large hole made with a harness punch will often prove permanent, but, as a rule, the most satisfactory way to mark half-grown or adult stock for identification is with numbered leg bands. Leg bands can be had in a sufficient number of colors and wide enough range of numbers to suit all purposes for identification and pedigree work.

Do not be in too great a hurry to condemn a growing chick for defects. Sometimes specimens which do not seem promising when half-grown prove remarkably good when fully matured.

Hardy Breed for City Lot.

Q. I have a small place in the city and want to keep a few chickens, principally for eggs. Can I have a chicken yard 25x50 feet with plenty of shade. House 8x12 feet. My business requires me to travel about half of the time, so I do not expect to try to raise more than a few chicks each spring with hens. What do you think of Black Minorcas for what I want? Which do you consider the better suited for my purpose, the Minorcas or the Rhode Island Reds? If the latter, which would be better, the R. C. or S. C.? Would you consider some other breed more satisfactory? If so, why? How many birds could be kept in space mentioned, without access to live greens of any kind? Mobile, Ala.

A. Probably the Rhode Island Reds, either S. C. or R. C., would answer best for your purpose under conditions named. They are very hardy and able to stand confinement, with little care and attention. The Black Minorcas are an excellent breed but require careful attention and it is probable, as you must be away from home a large part of the time, that one of the hardy American class breeds would suit you best.

You will need to supply succulent greens and vegetables in season and should furnish cut clover or alfalfa in winter.

Fifteen to twenty fowls will be plenty for the space you have available.

The American class varieties do remarkably well when fed by hopper and automatic feeder method—a plan suited to your needs. Probably Reds or Wyandottes, which have little tendency to put on internal fat when heavily fed, would give you very satisfactory results.

Incubator Hatch Failed.

Q. Please tell me why my eggs did not hatch. Had air incubator. About 50 percent had grown chicks in and some would break the shell and had sticky stuff on them which dried after they pipped. Some say too much moisture and some tell

5000 Selected White Leghorn Pullets

Utility Stock 90c each; 300 cks. selected from 5000 cockerels, \$1.00 each.

White Leghorns and Light Brahmas

From best in America Pullets, \$5.00 Cockerels, \$5.00

STAUFFER POULTRY FARM, R 1, Wakarusa, Ind.



200 to 288 Egg Line Cockerels and Hens

150 S. C. White Leghorn cockerels, 236 to 288 egg lines. May 1st hatch, from large eggs, \$2.50 each; pullets \$3.00 each.

200 Rose and S. C. Brown Leghorn cockerels, \$2.50, \$3.50 and \$5.00 each; all of 200 to 266 egg lines. Large egg strain. Hens \$3.00 each.

Rose Comb Brown Leghorn cockerels of 254 egg hens, \$8.00 each.

Barred Rocks—270 egg line.

S. C. Reds.

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POTTSTOWN, PA.

Jacobs' Single Comb White Orpingtons

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Winning

1st Pen, 2d Cockerel, 2d Pullet, 3d Hen

A fine lot of youngsters maturing.

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HIGHEST SCORE EVER WON

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Envelopes, 3 1/2 x 6 1/2 inches, an extra strong, thick, smooth, slick, white writing face, and 100 Letterheads, 8 1/2 x 11 inches, heavy, hard, smooth, slick, pure white writing paper, all artistically printed and illustrated with latest new Standard cuts of your breed for only \$1.00. Express charges paid by me. Better printing for the price was never done. No order less than \$1.00 filled. Name your Express office. Cards, tags and egg labels same price as above.

Address, J. R. HUDSON, Hardin Springs, Ky. We have saw samples of Mr. Hudson's printing. It is very nice; he is perfectly honest—EDITOR.



Page's Sanitary Non-Freezing Fountain No Lamps

Keeps water warm in winter and cool in summer. If not at your dealer, send for circular and testimonials from pleased customers.

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The "Best Yet" Aluminum Leg Band

cannot come off. Five sizes, pigeon to turkey. State breed, 12, 16c, 25, 35c, 50, 40c; 100, 75c. Celluloid Leg Bands—Red, Green, Amber; Pink, Black, White, Yellow, Light Blue, Dark Blue. Pigeon and Baby Chick sizes—12, 30c; 25, 20c; 50, 35c; 100, 50c. Poultry sizes, 12, 15c; 25, 30c; 50, 50c; 100, 80c. Circular free.

Aluminum Marker Works, Dept. J, Beaver Falls, Pa.

Golden Wyandottes

Winners at New York, Chicago and San Francisco. Young and old stock for exhibition. Prices reasonable.

J. S. PENNINGTON, Box A, PLAINFIELD, ILLINOIS

me not enough. My breeding stock was in fine condition. Have S. C. White Leghorns, Deleon, Texas. C. M. F.

A. Possibly you did not run your incubator strictly according to manufacturer's directions. You do not state where the machine was located nor the make. From what you tell us we are inclined to believe that you did not take sufficiently good care of the eggs while saving them for hatching, some of them may have been kept overlong. Eggs for hatching should be kept in a cool place. If kept too long or if exposed for any considerable number of hours to a temperature of 70 degrees or above that, the results on incubation would be about as you describe them. Eggs for hatching should be kept at a temperature not above 60 degrees nor below 40 degrees, and the fresher they are when set the better.

Corn Chop and Corn Meal.

Q. Please tell me the difference between corn meal and fine corn chop. I read so much about corn meal being used in poultry rations. Wouldn't whole corn ground to a fine meal do just as well? What is the difference? W. J. K.

Loretto, Colo.
A. You could not have anything better for one of the ingredients of your poultry mash than cornmeal made by grinding whole corn into a moderately coarse meal. Corn meal should be from shelled whole corn, but in commerce often includes the meal which results in grinding cracked corn. Feeding meal varies greatly in quality due to the quality of the corn from which it was made, the age of the meal and the conditions under which it has been kept. The unbolted meal is preferable for poultry feeding. Recently we have had meal offered us as "corn meal" which had every indication of being corn and cob meal, made by grinding the ear corn, cob and all.

"Corn chop" is a name which is differently used in different localities. Properly it means a coarse corn meal or chop made by grinding shelled whole corn. The name is sometimes applied to coarse feeding meals containing chiefly corn but with the admixture of a small percentage of some other grain, and in some localities it is applied to a corn and cob chop such as is made in a common farm mill by grinding ear corn. When you buy corn chop you should get only a coarse unbolted meal from whole corn. A "chop" is the entire product of the mill when any grain is ground, and in its coarse meal includes the bran, the middlings and the fine meal or flour—simply a coarse meal of the entire grain.

Early Molting Hens.

Q. I have about 40 year-old hens that laid well until about three months ago when they quit and began to molt. Now—September 18—they are almost done molting. Would you advise me to feed them for eggs this fall and winter? If they lay well this fall and winter will it have any effect on the fertility of the eggs next spring and summer and the number of eggs laid next summer? L. F. C.

Lebanon, Ind.
A. You can't eat your cake and have it too. Those hens will probably lay fairly well without any forcing. If you force them for eggs this fall and winter, you will not be likely to have as good fertility in spring as you would if you carry the hens over on a comfortable ration without pushing them for eggs. They are not likely to lay late into or thru next summer.

House Disinfection in Fall.

Q. Would you advise whitewashing or otherwise disinfecting a poultry house as late as November? Am moving on to a farm November 1st and want to put the poultry house there in shape for immediate use. It needs disinfection and a thoro cleaning. M. A.

Manchester, N. H.
A. Unless you can immediately and thoroly dry out the house with artificial heat, using a good stove, we would not attempt to whitewash so late in fall. Give the poultry house a thoro cleaning, then sprinkle floor and paint all woodwork well with crude petroleum.

Corn and Cob Meal for Hens.

Q. Would you advise use of a meal or chop made from ear corn, ground cob and all, for making poultry mash? How would you use it? We raised our own corn and have our own mill for grinding the corn, cob and all. F. E.

Middleboro, Mass.



Increasing The "Egg Money"!

SURELY you want all the money your flock can make for you—almost no labor is required to get every egg the hen can lay—you will be handsomely repaid for your trouble.

The laying hen that hunts the sunny corners on the first chill day and that looks for these warm spots until late spring, can be made over into a happy, busy egg producer in almost no time—a profit payer.

Read this letter from a well-known Breeder!

Dear Sir: Princeton, N. J., January 15, 1917.

According to your suggestion, on January 3rd this year I gave a pen of 125 White Leghorns, a warm, moist mash the composition of which is the same that is used at the North American Egg Laying Competition, and to this mash I added three drops of Sloan's Liniment to every bird. Before I started this feed the pen was giving a ten percent egg yield, and from checking my records I can report the following results:

January 3, 1917.	125 W. Leghorns	Egg Yield	12
" 8, ..	" ..	" ..	42
" 14, ..	" ..	" ..	76

This I call a wonderful record especially with a pen of birds hatched the first week in June. I am getting better results from these birds than I am from my pullets hatched the latter part of April and May. Tomorrow I intend to start Sloan's Liniment with all my 2500 Birds including all my breeders. I shall let you know the results

Thanking you for the information which has produced such wonderful results, I am,

Very truly yours,
LIVINGSTON SWENTZEL.

Here's the way to do it—Read carefully

For every ten layers that you wish to get in shape, pullets or hens, give 20 drops of Sloan's Liniment mixed with one pint of moist mash every day for three days and then give the same dose twice a week throughout the year.

For growing youngsters, give ten drops of Sloan's Liniment to ten youngsters in half a pint of moist mash twice a week only. Put five drops of Sloan's Liniment in every quart of drinking water.

Purchase a bottle of Sloan's Liniment from your nearest dealer. The small size contains enough to last ten birds two months or more. The large size contains 13 ounces or six times the small size. It's wise economy. One bottle will prove its profitableness and the many other uses you will find for Sloan's Liniment in the household will warrant your having a bottle on hand at all times.

NOTE—You will not find these special poultry directions in the circular with the bottle, so keep this advertisement

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- Runways
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- Brood Coops
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Niemann Bros. Mfg. Co., Box 677 Mt. Olive, Illinois

STARKS WHITE ROCKS Winners at Madison Square Garden Wonderful layers. Write for catalog STARKS FARM, Box 100, STARKS, WIS.

Get Eggs All Winter

Feed one drop of "OCULUM" to each hen daily and get eggs all winter. "OCULUM" destroys germ life in the bowel without injury to the fowl, and your gees goes into eggs.

Have 38 pullets, get 20 to 24 eggs a day, and have been all winter. Weather, from zero to 20 below.

"OCULUM" does the work. Mrs. J. F. Andress, Southern Cross, Mont., Mar. 5.

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I fed "OCULUM" to 48 Leg-horns 24 days. Eggs jumped from 8 to 42 a day.

Hawkins, Fishel, Latham and this Journal O.K.'s "OCULUM." "OCULUM" cures Roup, Cholera and Diarrhea.

Bottles, 50c and \$1. Guaranteed. Trial bottle, 10c. Booklet free. Dealers handle it.

"OCULUM" CO. Box B SALEM, VA.



PAPE Single Comb BLACK Minorcas

are acknowledged 100% good in prolific production of GLORIOUS LARGE WHITE EGGS, most delicious as a table fowl, and DEPENDABLE PRIZE WINNING QUALIFICATIONS.

Investing in layers and breeders now, and especially in COCKERELS at introductory prices that will improve size and egg production of your fowls, is good business. Our marvelous 1918 hatched and yearling EXHIBITION STOCK insures Championship honors and eventually top-notch prices for your surplus stock and eggs. State requirements, please. Catalog free.

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OUR W.F.B. Spanish

Won at the OHIO STATE FAIR, 1918

1st Cock, 1-2 Hen, 1-2 Cockerel, 1-2 Pullet. A fine lot of young stock at attractive prices.

J.W. Friesner & Son, Box A, Bremen, O.

White Wyandottes

Buy your cockerels for next spring while you can get a good choice.

Some as low as \$5

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Single Comb Rhode Island Reds only. Second Display New York State Fair, 1917. Third Display Madison Sq. Garden, 1918.

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HARNLY'S White Orpingtons

SPECIAL BARGAINS IN BREEDERS AND EXHIBITION STOCK
Mary K. Harnly 2301 Elisha Ave. Zion City, Ill.

A. Coarse corn meal—from shelled corn—is commonly considered better for poultry than corn and cob meal, but good results have been secured with the latter. The chief objection to corn and cob meal is the amount of coarse fiber, which is in excess of 6 percent. Considering the shortage of wheat mill feeds, you ought to be able to turn your corn and cob meal to good account and make a saving in wheat by-products. Grind your cob meal as fine as your mill will permit to avoid coarse bits of cob fiber. Mix two parts—by weight—corn and cob meal with one part ground oats—hulls sifted out—and add about 30 percent good fine beef scrap. This will give a good mash without wheat by-products. If you can get wheat middlings, an addition of from 10 to 20 percent will improve the mash; so would the addition of a like amount of barley meal. However, corn and cob meal, with sufficient fish meal or beef scrap to boost the protein, will make an excellent poultry mash without use of other grains and feeds. It is a good war ration and a mighty good thing to fall back on in a mill feed shortage.

White Orpingtons.

Q. I am interested in White Orpingtons and have always thought that with proper care in feeding, housing, selection, in fact in every way to keep them hustling and growing, that if they possess the laying qualities they will begin laying when from 6 to 7 months old.

My birds were hatched May 15, 1918, and at time of writing about 80 percent will weigh 4 pounds or better, with one cockerel weighing 5½ pounds. Will it be possible to have the pullets laying by the last of November or early in December?

W. S. F. A. As your birds were about four months and five days old when your letter was written they show fair growth, season and growing conditions considered. If you can get good grains and feeds, and will push feeding, they should nearly double their weight by time they are seven months old—possibly do even better. The thing to do is to make as good, rapid, healthy growth as possible before severe weather sets in. They will need plenty of good beef scrap—or other animal food—succulent vegetable food and good sound grains and feeds. They should have the frame already to build for size and weight. With good care and liberal feeding, comfortable quarters and avoiding crowding, you should have some of the pullets laying by Thanksgiving and most of them in full lay by Christmas.

Eggs in Water Glass—Solution "Milky."

Q. I have been putting down eggs in water glass in a stone jar without a top. Have been putting the eggs in just as I get them. Just noticed that the water is becoming milky. Please let me know if this will injure the eggs. A. B. C. Richmond, Va.

A. If the water glass solution was properly prepared and the eggs clean and free from cracks when put in solution, everything should be all right. The solution is usually "milky" if left uncovered or frequently disturbed. Better provide a cover for the jar to keep dirt out of it. A wooden cover will answer.

Feeding Questions.

Q. (1) What amount of feed in weight should I give each hen per day?

A. (1) Do not feed by weight. Feed according to appetite. A medium size hen will average about 2 ounces of scratch grain and 2 ounces of dry mash mixture daily in addition to greens, water, grit, oyster shells and charcoal.

Q. (2) What kind of feed should be given poultry and how often?

A. (2) Keep a good dry mash mixture in a hopper all the time. Use a good commercial ready-mixed mash or make a mash according to one of the several formulas which have been printed in this paper from month to month. A mixture of cracked corn and whole oats makes a good scratch grain which should be fed in litter twice daily. Or use one of the many more elaborate and excellent ready-mixed scratch grains. We have recently published several good articles on feeding fowls.

Q. (3) Have been feeding Purina Chowder, but as this costs \$4.50 per hundred, I



S. C. W. LEGHORN 400-COCKERELS-400

Strong, vigorous birds from Young and Ferris strain at \$1.25 to \$2.50 each. If you want new blood in your flock from a heavy-laying strain, here is your chance. Write today
P. F. CLARDY, Ethel, Mo.

Ideal Aluminum



LEG BANDS for POULTRY and PIGEONS are the acknowledged leader. Firmest and most secure lock. GUARANTEED to stay on. Price, 12 for 15c; 25-25c; 50-35c; 100-65c; 250-\$1.50; 500-\$2.75; 1000 \$5.25, postpaid. Price list and sample, 3 cents.

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Large printed numbers, bright clear colors—Red, white, blue, green, yellow. Made of celluloid and aluminum. Adjustable. 12 for 35c, 25-65c, 50-\$1.25, 100-\$2.25, 200-\$4.00, Victor Sealed Band—12 for 40c; 25-75c; 50-\$1.50; 100-\$2.75. Pliers 60 cents.

Frank Myers Box 42 Freeport, Ill.

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Rhode Island Red Cockerels

from prize-winning stock. Satisfaction guaranteed or money returned.

== \$7 PER BIRD ==

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WARNOCK'S S. C. Brown Leghorns

are rounding out in fine shape.

Choice Cockerels This Month

in either Light or Dark Brown

\$5 Each

Buy now and get the pick; also one cock and 20 hens Light Brown at a bargain, quality considered.

W. G. WARNOCK

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VENTILATION

Don't waste time, money and patience on old style low, damp, drafty, unhandy poultry houses. After years of experimenting I have perfected a simple design, easy to build or remodel, that overcomes these serious faults. Book giving plans, details and illustrations \$1. Personal checks \$1.10. Satisfaction guaranteed.

S. E. Burdin, Suite 16, 104 Stubbard Av. Toronto, Ont.

Mention the American Poultry Journal when writing to advertisers.

think it a bit expensive. Scratch feed costs \$4.75 per hundred.

A. (3) The mash named is well recommended and the price is consistent with other feed prices. A good home mixed mash will cost close to \$4.25 or \$4.50 per 100 pounds at present writing. Here in the East we have been paying above \$5 per 100-lb. bag of grain for so long that this fall's prices seem much more moderate.

Q. (4) I recently bought 25 pullets and about 10 cockerels—these latter I intend to get rid of—some Brown Leghorns, Partridge Wyandottes and a few mixed. Intend to keep these pullets laying this winter and in spring start with good stock. Do you think it wise to keep Leghorns and some American table birds? I thought of Rhode Island Whites. A friend of mine suggested White Wyandottes or White Rocks. Am very much interested in your publication.

Newark, Ohio. J. A. C.
A. (4) We hope you are successful with your mixed flock of pullets, but we believe you would have found it more satisfactory in every way to have made your start with a smaller flock of pure bred stock of one variety. Better get into Standardbreds and stick to them. Either the White Wyandottes or the White Plymouth Rocks will give you excellent results. Both Brown Leghorns and Partridge Wyandottes are excellent fowls, if you have secured good pullets from well bred stock, but from your letter we take it you have taken over a mixed flock of uncertain parentage. It will be wise for you to pen the Leghorns and the Wyandottes separately. Better choose one good, all-purpose Standard variety and stick to that. One variety is plenty for back lot poultry keeping.

Too Much Soft Corn or Frosted Greens.

Q. Please tell me what kills my geese? Have lost three full grown geese this fall. They seem well and look fine. Eat and drink well, but each week lately I have found one dead. They just drop over and flop their wings and are gone. Never had anything like it before. Cannot find anything they get to eat that is poisonous. Cut one open and it looked all right. Liver seemed a little light in color. It was not overfat. They had running water all summer until last three weeks. I keep a pail of water at the well for them. They stay around the house all the time except once in a while they go to the edge of the corn field and eat corn. I feed them clean old corn but nothing else, as they can get plenty of grass.

George, Iowa. Mrs. C. E. B.
A. We believe the trouble is acute indigestion. This may be caused by too much grain, too much soft new corn, or may result from eating frosted grass or greens, especially if they feed on it before sun has dried off the frost. Perhaps some goose grower among our readers may have had similar experience and can offer more light on the subject.

Poultry raisers who expect to use coal-burning brooders and incubators next season should make their plans early. This is the advice of the U. S. Fuel Administration and will be promptly heeded by the judicious poultryman. The amount of anthracite coal to be shipped will be materially reduced. In fact those states west of the Mississippi must secure their anthracite coal from other sources than the East. In so far as Missouri is concerned, poultrymen can secure some of the western anthracite coal either from Colorado or Arkansas, says H. L. Kempster, of the University of Missouri College of Agriculture. It is also suggested that screened coke can be used. Action should be taken immediately for next spring's needs. If this is done there need be little if any difficulty experienced. One must not figure on the Fuel Administration making special allotments next year as it did last.

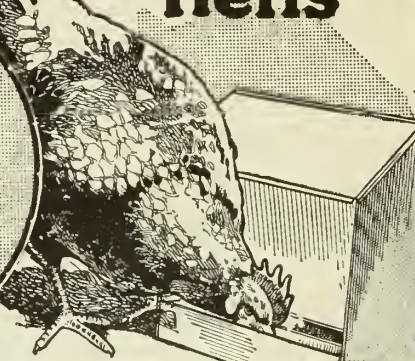
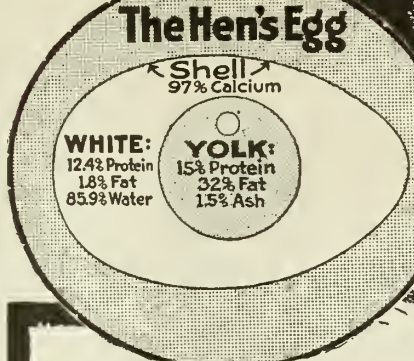
REMOVAL TO WINTER QUARTERS

The ideal way to manage laying hens is to have suitable houses at maturity, with other yards or ranges suited to the flock while growing, and have each flock of layers occupy the same quarters all their lives. If pullets must be moved from the quarters they have occupied during the growing season, every effort should be made to make the change as little disturbing to them as possible. The method of removal will not be the same for all cases and conditions. Each poultry keeper must consider the situation as it exists for his stock and adapt his treatment to the circumstances.

How to Build Poultry Houses

of all kinds and descriptions. It gives complete plans. How to make feed troughs, nest boxes, water troughs, roosts, droppings boards, brood coops, brooder houses, fattening coops, colony houses, winter and summer houses, etc. Price 50c. AMERICAN POULTRY JOURNAL PUB. CO. 522 Plymouth Court Chicago, Illinois

The Complete Egg Food for Heavy Laying Hens



SUCRENE POULTRY MASH with BUTTERMILK

Laying hens require a stronger protein feed than any other animal because the hen's egg is a strong protein product. Moulting hens require it to produce new feathers, which are 87% protein, and to restore their egg forming capacity in time for winter laying. No grain or combination of grains fully supplies the need. It is also deficient in minerals.

Surprising egg yields have been obtained from hens fed Sucrene Poultry Mash with Buttermilk and Sucrene Scratch Feed. It makes a complete, correctly balanced egg producing and body maintaining ration. Its protein and fat are evenly balanced to form a practically equal number of yolks and whites; also supplies calcium for shells.

High Quality Feeding Materials That Are Worth Your Money

Sucrene Poultry Mash with Buttermilk is composed of Dried Buttermilk, Meat Scraps, Corn Feed Meal, Alfalfa Meal, Wheat Bran, Linseed Meal, Palm Kernel Meal, Calcium Carbonate 1%, salt 1/2%. Guaranteed analysis: 18% Protein, 3 1/2% Fat, 50% Carbohydrates, 12% Fibre.

Sucrene Scratch Feed is the necessary grain ration, composed of sound, clean grains carefully selected and correctly proportioned: Corn, Wheat, Kafir, Sunflower Seed, Buckwheat, Barley and Oats. Guaranteed analysis: 10% Protein, 2 1/2% Fat, 46% Carbohydrates, 5% Fibre.

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to get the benefit of the work done by our poultry feeding experts. Buying high priced grain which produces no eggs is a dead loss. Sucrene Poultry Mash with Buttermilk and Sucrene Scratch Feed is the scientifically correct combination for maximum egg production winter and summer; and you can rely on profitable results when fed as directed.

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Horticulture for Poultry Keepers

Conducted by Thos. F. Rigg, Iowa Falls, Iowa.

OVER a considerable portion of the country, the finishing touches should be given to the work of properly planting and preparing plants, vines and trees for the long winter which will soon be upon us.

Now that the ground has begun to freeze, all plants or bushes or shrubs which need winter protection should be covered with straw or any like material. Most plants, bushes and shrubs, tho perfectly hardy, are benefited by a mulch of manure.

If you have not given the fruit trees and berry bushes a thoro spraying with Scalecide, do it now, provided the temperature is not below 48 degrees. This spraying will kill all the insects which have taken up winter homes in the trees, and go a long way toward insuring full bloom next spring.

Prune and cover the grape vines. Of course, if you have a large planting of grapes, it is not practical to cover them, but for the home yard, where the winters are severe, it pays to cover the vines each fall.

Do not fail to mulch the strawberry bed well with farm yard manure. Then scatter straw over the plants. Do the best you can for all your growing things. By so doing you will be happy this winter and the trees and vines will thank you, and fully reward you for all your work.

Our heartfelt sympathy goes out to Mr. and Mrs. F. Donald Baerman, in the death of their son Roswell, who was fatally injured in a trolley car accident in Elizabeth, N. J., on September 9.

W. V. S., Illinois, whose letter in the October issue told us of his successful experience with geese in the apple orchard, writes as follows:

"About ten days ago the geese about which I wrote you recently, commending their efficiency as grass eaters in the orchard, began eating the bark on small apple and plum trees. They kept pecking

away until they had nearly girdled several. I cut all their heads off. The old hen for me after all! Maybe I'll try pigs next year as our village has repealed the ordinance against them. Besides they dearly love the sweet quack grass roots, a nuisance that infests this section."

I do not understand this. Never before have I heard of geese destroying young fruit trees. The trees could cheaply have been protected by wire wrapping. The young trees will have to be protected or pigs will destroy them. Hogs and pigs in a bearing orchard are all right but I would not want them in a young orchard.

The findings of the Agricultural College of Iowa show that the apple orchards of the state are making more money than any other form of agricultural work. For a period of ten years these orchards have returned a net income of \$107 an acre, equal to \$1,186.50 valuation per acre. F. P. Spencer, of Fremont County, this season cleared \$20,000 from his 80-acre apple orchard, or \$250 an acre. Of course, these orchards are properly cared for and are not a secondary consideration in the working plans of the farms upon which they are located.

Dr. Woods in advising a correspondent in Florida to adopt the open front poultry house is correct. I have carefully noted the manner in which poultrymen house their fowls in Florida. Without exception the successful breeders there have what can be termed open houses. It is simply a roofed space, with sides and ends wholly open. One breeder at whose house I used to spend considerable time, had a concrete floor. This floor was sprayed with a liquid lice killer once a week. No feeding was done on this floor. By means of the use of the open house and the cement floor, the ticks and other insects which so annoy fowls in Florida were kept down, there being no place for these pests to harbor.

S. C. Black Leghorns

FROM IMPORTED STOCK

A Grand Lot of Show Birds for Sale

Here is a great opportunity to secure top-notch stock in a breed that is not overcrowded. Raise a breed that is not to be found in every backyard and be in a position where customers will have to come to you or a few competitors for stock. Black Leghorns are on the boom and the breeder who starts now will reap a rich reward. They are excellent layers, as shown by their records in laying contests.

The Foundation of Our Flock Was the
Best Imported Blood We Could Secure

Make a good winning at your show this winter and gain a reputation that will enable you to cash in handsomely in the spring on hatching eggs and baby chicks.

Don't Miss This Grand Opportunity. Write Today for Full Information.

Howard L. Goss Box A Austin, Minn.

What would you recommend for commercial planting of fruits in Clare County, Michigan, of the following fruits: Apple, peach, pear, plum, cherry, quince, grape, gooseberry, currant, raspberry, blackberry, dewberry and strawberry?
New York.

F. N. Clark.

Would advise the following varieties: Apples: Wealthy, McIntosh Red, Delicious and Senator. Pears: Lincoln, Flemish Beauty, Seckel. Cherries: Montmorency, Early Richmond and Sula Hardy. Quince: Orange, Van Deman. Grapes: Concord and Worden. If for a commercial orchard: Concord, Worden, Niagara, Brighton and Eclipse. Gooseberry: Oregon Champion—outbears Houghton and Downing two to one and fruit runs large on old bushes. Peaches: Early Elberta, J. H. Hale and Krummel October. Plums: Omaha, Surprise, Terry, Endicott and America. Currants: Red Cross and Diploma, with about one-fourth the planting in Fay's Prolific. Raspberries: Cumberland for black and Cuthbert for red. Would make the raspberry planting largely Royal Purple. This is a wonderful berry. Fruit is large and of a bright purple color. The vines are hardy and very prolific. This variety will outbear any other two to one. Blackberries: Mercereau, Ward and Snyder. Dewberry: Lucretia. Strawberries: I do not like to advise as to varieties of strawberries you should plant. The strawberry is very particular as to soil and environment. Consult growers in your locality.

* * *

"Chris Ringhausen, the largest apple grower in this neck of the woods, started the ball rolling last week when Mr. Ringhausen sold his entire crop to Cohen, Bernstein & Radtke, of Chicago, for approximately \$40,250, the purchaser to assume all risks and responsibilities in picking, packing and marketing the crop. Mr. Ringhausen thinks there will be at least 23,000 barrels. This is the biggest apple deal ever pulled off in Calhoun county."—Calhoun County, Ill., Journal

Commenting on this Stark's Tree Talk says:

"So accustomed are the newspapers of Illinois to reporting big orchard profits the above announcement was sandwiched in with a lot of local happenings of little interest, and yet the information condensed in this article is of much interest, because it carries a message of hope and points a road to sure success, that will gladden the heart of many a farmer who has land suitable for fruit growing."

Here is a man with about two hundred acres of rough land, who is making more than \$40,000 a year—practically all of it is clear profit. Last year Mr. Ringhausen cleared \$28,000 on this same orchard. It has been only a few years ago that we knew of Mr. Ringhausen as a farmer struggling to make "both ends meet" on his Calhoun county farm. Finding that farming did not pay him well enough, he took up commercial fruit growing. At first he continued to farm—planting corn, etc., between his young trees, and in this way growing about as much grain as he did before planting his trees. He did not have to wait long for his trees to begin bearing. Since that time Mr. Ringhausen has been increasing his orchard until he now has two hundred acres in bearing orchard at the home place near Hardin, Illinois, and has vast orchards in other parts of Calhoun county, also in Jersey county.

The value of Mr. Ringhausen's experience to others is in the splendid example he has set. Today Mr. Ringhausen is a wealthy, influential and useful man in his community. He has attained these heights not by working miracles or performing a difficult job. He has succeeded simply by turning his hands to the line of business that offered the surest success. The work of growing fruit is not difficult. It is simply doing an ordinary kind of work at the right time, just as the crop of corn or oats must be attended to at the right time. Any man who can learn how to grow a crop of corn can learn how to grow a crop of apples.

Fruit is food, and the man who produces an abundance of fruit is giving much assistance in feeding the hungry of the world. Take Mr. Ringhausen for instance, he is producing more food on his two hundred acres than is being produced on many farms of his county, where grain only is grown—and he has become very wealthy in doing it.

* * *

Would like to know when is the proper time to put out an orchard and of what should I plant for home and local use? I want apple, peach, pear, cherry, grape, strawberry, raspberry, blackberry and plum. Both early and late fruit of each variety. How much space will I need and how far apart should I plant the trees? Would it be all right to sow grass or rye in the orchard? Would like names of good reliable nurseries.
Illinois. Elmer E. Peoples.

The proper time for planting an orchard in your locality is early spring. For a home orchard the following plantings will prove



YOUR pullets need an abundance of wholesome, energizing, egg-producing feed, if they are to be good layers this fall and winter. It must be a feed that supplies the elements contained in the green stuffs and natural food they have been getting, and in addition the proper proportion of other egg-making, body-building materials.

Badger Laying Mash fills this order. It is an ideal feed for pullets and hens. It will start your pullets right, keep them laying, give them energy and strength. It will put your hens in splendid condition for steady fall and winter laying, will quickly restore their tone and vigor which the molting period has lowered.

BADGER Laying Mash

BADGER Laying Mash is wholesome and easily digested. Chickens crave it and thrive on it. It contains a liberal percentage of high-grade meat scraps combined with a careful selection of sound, sweet grains, carefully re-cleaned and uniformly mixed. It is ready mixed and can be used for either hopper or damp

crumply mash feeding. Badger Laying Mash never varies in quality. It is made of the best materials and the right materials, the correct proportions of which have been determined by practical tests. It is unquestionably the mash feed for your use, for it will give you big returns for your money.

Higher Prices for Eggs

CLEAN-shelled, wholesome, full-meated, newly laid eggs, are bringing higher prices every day. The opportunity for profit in egg and poultry production has never been greater. To take full advantage of it requires careful feeding and the use of feeds that give big returns.

Thousands of poultry keepers are daily proving the value of Badger Laying Mash and other Badger Poultry Feeds. They are using them in preference to other feeds because of their unvarying high quality, reliability, and the big results they produce.

Regular use of Badger Laying Mash, Conservation Scratch Feed and other Badger Poultry Feeds will solve your feeding problems—will put your flock on a good profit-paying basis.



Ask your dealer for Badger Laying Mash, Conservation Scratch and other Badger Feeds. If he cannot supply you at once give us his name and we will see that you get them without delay. Send for **FREE SAMPLES** of Badger Laying Mash and Conservation Scratch.

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MANUFACTURERS OF THE BADGER LINE OF POULTRY AND FARM FEEDS

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THE BEST OIL-BURNING HOVER IN AMERICA

Wickless Burner



Plenty of Heat



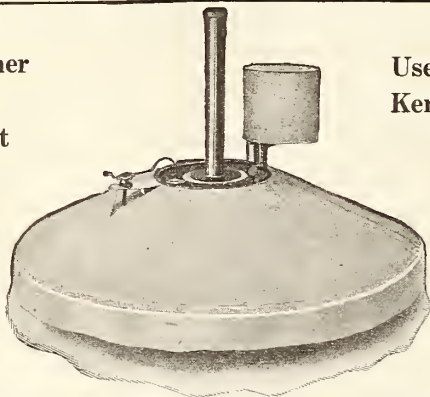
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Valve



Perfect

Ventilation



Uses Common

Kerosene Oil



Burns

Less Than

One Gallon

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Per Day

HARRYSBOURG BROODING DEVICES ARE DEPENDABLE. Last spring the Government ordered a sample hover for the Government Farms at Panama, and on September 20 we received its order for twenty more. Constructed for long service, stove has cast metal top, and cast metal rim around the top edge of canopy; HEAVY METAL WICKLESS BURNER, making a perfect blue flame like natural gas, and burning continually the entire season without cleaning.

PLENTY OF HEAT for coldest weather. Absolute control of heat in mild weather.

AUTOMATIC VALVE working like a carbureter.

VENTILATION SYSTEM producing strong, healthy chicks.

MADE IN TWO SIZES. Large 50-inch canopy, capacity 100 to 600 chicks, and small 33-inch

canopy (burning three days on one gallon of oil), capacity 50 to 200 chicks.

SPECIAL OIL-BURNER STOVE. If you wish to change from coal to oil, we furnish you with our special stove which you may use with your coal stove canopy.

SEND FOR CIRCULAR. We can interest you

Harrysbourg Poultry Farm, Inc. : Dunkirk, N. Y.

satisfactory. Apples: Duchess, Transparent and Liveland Raspberry for very early. Wealthy for fall and Delicious and Grimes' Golden for winter. Peaches: Early Elberta, J. H. Hale and Krummel October. Pears: Lincoln and Seckel. Raspberry: Cumberland and Royal Purple. Make the planting largely Royal Purple. Cherries: Montmorency. In the home orchard plant but one kind of cherry. You will then get most of the fruit for yourself, while if you have a tree or two of kinds ripening at different seasons, the birds will get most of the fruit. Grapes: Eclipse, Green Mountain, Niagara, Worden and Concord. Blackberry: Merseureau and Ward. Plums: Omaha, Endicott and Surprise. Strawberry: Consult local growers.

Planting distance will vary in different localities and under different soil and climatic conditions. Orchards on very strog soil should be set somewhat farther apart, that is the trees, than trees set in medium rich soil. Proper distances to plant are as follows: Apples: 30 feet apart. Apricots: 16 to 20 feet apart. Asparagus: 1 to 2 feet between plants, in rows 3 to 3½ feet apart. Blackberries: 3 to 4 feet between plants, in rows 6 to 8 feet apart. Cherry: (Sour sorts) 16 to 20 feet apart. Cherry: (Sweet sorts) 20 to 27 feet apart. Currant: 4 feet between plants, in rows 5 feet apart. Gooseberries: 4 feet between plants, in rows 5 feet apart. Grape: 8 to 10 feet apart, or 8 feet apart in rows with rows 10 to 12 feet apart. Hedge Plants: 1 to 2 feet apart. (To get a thick hedge quickly, plant two rows 10 inches apart, with plants alternating—that is, no two plants opposite.) Mulberries: 22 to 28 feet apart. Pecan: 35 to 40 feet apart. Peach: 16 to 20 feet apart. Pear, Standard: 20 to 27 feet apart. Pear, Dwarf: 10 to 16 feet apart. Plum: 15 to 20 feet apart. (On rich soil Japanese sorts should be planted at least 20 feet apart.) Quince: 10 to 16 feet apart. Raspberries: (Black) 3 feet between plants, in rows 6 to 8 feet apart. Raspberries: (Red) 3 feet between plants, in rows 5 to 6 feet apart. Rhubarb: 3 feet between plants, in rows 4 feet apart. Roses: 2 to 2½ feet apart. Walnut: 3 to 40 feet apart.

Practice clean culture of the orchard by all means. Do not seed down a young orchard, and never keep peach trees in sod. You can raise vegetables on ground between trees if you plant such vegetables as can be harvested by July 15, when the orchard should be sowed to buckwheat or rye. This will give you a cover crop which will protect the trees in winter. In early spring plow under this cover crop and cultivate orchard until July 15 or thereabouts. Then put in a cover crop again. This will keep the soil full of humus and the trees will thrive. It is hard for young trees to make proper growth and development in sod.

* * *

A. T. Hall, Illinois, says: 'Every farm should have an orchard of good trees, quality sorts, which should be given the best of care.'

Mr. Hall is a preacher who practices what he preaches. On his farm he has an orchard of 45 acres of bearing apple trees. He is a very busy man with his 500 acres of rich Illinois land, but his orchard is never for a moment neglected. He grows all the usual farm crops and makes a specialty of fine stock raising. You may say that he has not time to properly attend to his orchard but you are mistaken. His is one of the best and best cared for orchards in the United States, and he finds that his orchard gives him the best returns of all his farm enterprises. During the past five years he has not failed to get an annual crop, and during that time the 45-acre orchard has paid him 15 percent net income on the entire valuation of his 500 valuable acres. Bear in mind that before the war apple prices were low, and that during the war the price of farm crops have been high. Yet last year his orchard made him more money than all his other crops. He considers his orchard an insurance against crop failure on the rest of the farm. With Mr. Hall it is "prosperity and plenty" and the orchard turns the trick.

* * *

George Adams, living near Three Rivers, Michigan, this season sold raspberries from a three-fourths of an acre tract for \$500. The bushes were put out two years ago. How is that for good and quick profits?

* * *

We had with us a short time ago the world's best landscape painter. He came to our place quietly and without announcement.



Eggs, \$1 Dozen

How many dozen are you, dear reader, selling at this price? Now is the time to make your pullets lay, while the price is up. By lighting the poultry house, allowing Mrs. Hen to exercise more and eat the necessary food required to manufacture the egg, as she does the long days of summer, she will LAY MORE. In our DAY-LIGHT LANTERN, the latest improved 300-candle-power lantern, we have the article you have been looking for. Before buying elsewhere, write for descriptive circular and other interesting literature, FREE. Write today. Do it NOW.

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100 each of yearling hens and April hatched pullets in S. C. Brown Leghorns, S. C. White Leghorns, S. C. Buff Leghorns, Barred Rocks, S. C. R. I. Reds, S. C. Black Minorcas, Anconas, White Wyandottes, Black Langshans and Buff and White Orpingtons. Fine cockerels in all these breeds. Send for circulars.

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OUR CATALOG FREE

F. A. KAUP BUFF ORPINGTON FARM

Est. 11 years. The farm with no dissatisfied customers

Box 1101 : GLEN ELLYN, ILLINOIS

This was but a few days ago, yet we have in completion the grandest painting I have ever been privileged to behold. Standing in my library window, looking out over the big lawn to the south, the picture is spread before me. And what a wonderful picture it is! In front are the horse chestnut (Buckeye) trees, every leaf of which is deep and glowing red. Just behind and somewhat taller are the hard maples, clothed in a garb of brightest yellow, while in the background stand the giant white oaks with their vivid green mantle. Hundreds of blackbirds are in the trees, noisy over their preparation for the flight southward, where cold will not harm them. Squirrels scamper up and over the trees after nuts, and on to various parts of the yard and orchard, where they are storing nuts for use when all will be cold, and winter storms blight and wither all before them. I am informed by a lady standing by my side that the mingling of red and yellow and green would be an incorrect color scheme for a lady's gown. But I tell her that J. Frost has never undertaken the painting of a lady's gown. He is too busy touching up the landscape of all the great northern country each season, and must rest during the summer days. Also that his color scheme is absolutely perfect and harmonious, for from his judgment and verdict there is no appeal. We have planned a long trip down the Iowa river, where we will be able to see his picture stretching along the miles. What a good and glorious privilege it is to live in this world!

* * *

The rye and buckwheat we sowed this fall has made a splendid growth. It will be of great benefit to the trees this winter in protecting the roots from the cold. It will hold the sun, and thus add moisture to the soil. In the ground to be planted to corn and potatoes, etc., it will add humus and insure a good crop next season. By growing cover crops we get all these benefits. We also prevent the loss of plant food during the winter. I am enthusiastic over cover crops. I wish I could grow red clover here as a cover crop but the climate is too severe.

* * *

When I picked the grapes this fall I left a few bunches here and there for the brown thrushes and catbirds. And they have thanked me for this every day by eating the grapes almost constantly. It seems never before have they remained with us so late. Hereafter, I shall do as I did this season and leave part of the crop for them. When they finished picking their share of the crop they left for the south. We had a very enjoyable visit the last day of their stay. They were in the vineyard all day chattering to me, and I believe they told me they were going, that they would be back in the spring and hoped to find the grape crop promising. I told them how much I appreciated their help in the orchard in ridding it of insects, wished them a pleasant visit and safe return.

* * *

Everything in the orchard and garden will go into winter quarters in splendid shape. We had enough fall rain to put the proper moisture in the ground, and there is no danger of roots killing because of the earth being dry. The currant, gooseberry and raspberry bushes have been heavily mulched with coarse manure. I am figuring on a full crop next season. I always do this and rarely am disappointed.

* * *

How much we shall all miss I. K. Felch! More than forty years ago I looked to him for inspiration and advice and always was benefited by his counsel. When I read of his death I turned to the files of the American Poultry Journal of the far back days, and lived with him again as I did in those golden days. We have all lost a friend and wise counselor in the death of I. K. Felch.

* * *

In answer to C. C. Cleaves: I cannot advise you whether or not it is best for you to sell your Wisconsin farm and move to Virginia. You refer to Bath county. Bath county is located on the western border of the state, 120 miles northwest of Richmond. Its mean altitude is 2,195 feet. Its people are Scotch-Irish, having moved from Pennsylvania in 1740. A portion of the county is mountainous, the rest rich bottom lands, very fertile, the small in area. It is mainly a grazing section. It is a natural grass soil. Bedford county is at the eastern base of the Blue Ridge mountains. It is one of the best agricultural counties in the state. Water is soft, timber abundant. Staunton is out in the Shenandoah Valley. It is situated in one of the richest farming sections of the state. It is a wonderful fruit section thereabout. Make a thoro personal inspection of Virginia before buying land there.

* * *

In answer to Warren Davis: The old orchard on the farm you have just purchased in Wayne county, can, I judge from your statement of its condition, be made to

DR. HESS POULTRY PAN-A-CE-A



Hens are coming out of the moult—now for a long season's laying. Start your moulted hens and pullets right.

Feed PAN-A-CE-A

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- to put them in laying humor
- to start the singing and cackling
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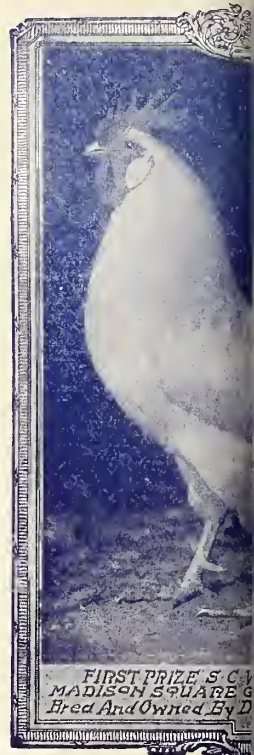
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The famous flock and good will of
D.W. Young, Monroe, N.Y.

has now been consolidated with the
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 making the most imposing array of
 show birds and heavy laying stock
 of this breed ever collected together.

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1-2-3 Cocks, 1-4-5 Hens, 1-2-3-4 Cockerels,
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Don't run the risk of taking a back seat at your show. Let us fit you out with a string of winners—or a superior bird in any class. Let us strengthen your breeding flock with some of this superior blood. The fact that our Leghorns are the best in the world does not mean that our prices are beyond reason or beyond the ordinary man's pocketbook. Thousands of people have visited our farm and bear eyewitness to the excellence of our birds—you are welcome to do the same. Our doorman says "Visitors Welcome," and we back it up—always glad to see you.

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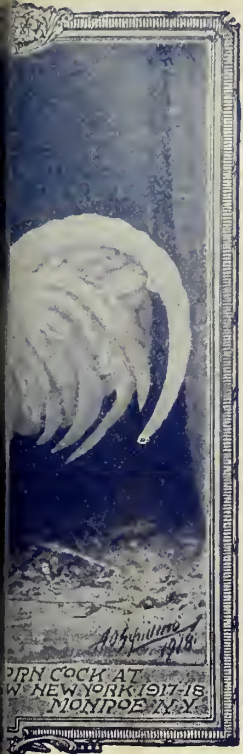
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1-2-3-4 Cocks, 1-2-3 Hens, 1-2-3 Pens. Had 30 birds entered. Captured 31 ribbons.



BULLETS, HENS SHOW BIRDS BREEDERS

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has now been consolidated with the great Oak Dale Farms Leghorns, making the most imposing array of show birds and heavy laying stock of this breed ever collected together.

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And Easy Lessons in Judging

By FRANK HECK

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The time has gone by when a breeder can pick up birds right out of the yards and win with them without special preparation. This is true even in the smaller shows. There are always at least a few hustling, enterprising breeders in nearly every locality who are keenly alive to the financial profit and the honors accruing from winning over all competitors. These breeders use all legitimate methods for putting their birds in show condition.

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Faking is certainly wrong and it should not be practiced, but even in legitimate show preparation what chance have you to win over one or more honest competitors who may have a copy of this book and thereby possess the knowledge which enables them to fix up their birds in scores of ways that are not known to you. Consider also the immense advantage you would have in being able to detect such forms of faking as can be discovered in cases where there may possibly be a dishonest exhibitor in the class.

All the methods, drugs, chemicals and various modes of preparing birds for the show room are fully explained.

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542 S. Dearborn St. Chicago, Ill.

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- How to Bring Out the Bright Red Color of Combs, Face and Wattles.
- How to Straighten Lopped Spikes or Blades of Combs.
- How Small Patches of White are Covered Up in Red Ear Lobes.
- How Back Plumage is "Fixed" to Reduce the Angle at the Tail and Give a Nicer Curve to the Back.
- How to Clean the Plumage of Parti-Colored Fowls for Show Without Washing.
- Removing Creaminess and Brassiness from White Birds.
- Covering Up Off-Color in Black Plumage, Including Purple Barring.
- How to Improve the Color of Any Parti-Colored Bird.
- How to Make a Bird of Its Own Accord Pose in the Show Coop.
- How to Add Lustre to Plumage of Dark Colored Fowls.
- How to Add Weight to Exhibition Birds Quickly.
- Coloring Yellow Legs.
- How Side Sprigs Are Removed Without Leaving a Scar.
- How Foreign Color is Removed from Beaks.
- How the Plumage of Red Birds is Treated to Secure a Darker Shade of Color and Lustre.
- How White Tips Are Sometimes Removed from Barred Rock Plumage.
- Removing Traces of Stubs Pulled from Legs.
- How Foreign Color is Removed from the Edges of Large Feathers.
- How Dark Streaks Are Removed from the Quill of White Feathers.
- How Unscrupulous Exhibitors Have Been Known to Prevent a Competitor's Birds from Showing Properly.
- Putting Birds in Show Condition That Have Missing or Broken Feathers in Main Tail or Wing.
- Preventing Purple Barring in Black Fowls.
- Preventing Show Room Growth and Lopping of Comb.
- How Feathers Are Spiced.
- Feeding to Produce a Darker Shade of Buff.
- How White Ear Lobes Are Treated for Small Defects in Color.
- A Frequent Cause of Large, Beefy and Lopped Combs and How to Prevent Them.
- How to Artificially Moulit Fowls in Near Half the Regular Time.
- How to Secure and Hold Profuse and Leg Feathering on Feathered Legged Varieties.
- A Practically Unknown Cause of Lopped Combs and the Remedy.
- How to Prevent Light Colored Legs.
- How to Increase Gloss Sheen and Depth of Color in Moulting Male Birds.
- A Good Stimulant and Preventative of Colds in Birds Shipped to Shows in Extreme Cold Weather.
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- One of the Causes of Off-Colored Feathers in Parti-Colored and Black Fowls. How to Remedy the Defect.
- How Sickie Feathers Are Shortened Without Clipping the Ends.
- What to Feed to Promote Feather Growth.
- Tonic for Maintaining Health and Appetite in Show Birds and to Counteract the Effects of Confinement.
- Preventing Brassiness From Appearing in White Birds.
- How to Clean Paint From Birds That Have Come in Contact With Newly Painted Coops or Houses.
- How to Prevent Color Cuts on Plumage by Stopping the Flow of Blood From Comb, Wattles, Etc., When Injured in the Show Room.
- Complete Detailed Instruction for Washing and Chemically Bleaching White Birds.
- How Black or Gray Specks in White Plumage Are Hidden.

The above subjects are only a portion of the contents. There are many other equally interesting, important and valuable secrets, many of them being alone worth the price of the book. There are many seemingly "little" things that are of great importance and that you would never think of.

The Easy Lessons in Judging are also a feature of the book and will teach you the principles of scoring fowls.

bear abundantly for many years. Secure some experienced orchardist and have him treat the trees early this winter. He will cut out all dead wood and properly shape up each tree. As this orchard has been in sod for many years you must not plow deep when turning over the sod for if you do, you will injure the feeding roots of the apple trees. It is the near surface roots which do the feeding to supply the whole tree. Do not plow up the sod this fall. Do this early next spring. Then cultivate the orchard thoroughly until about July 15, when a cover crop should be sown. Of course you must spray the trees. Give them a good spraying with Scalocide this fall and again in the spring before buds open. They use arsenate of lead for later spraying. As the trees are very large, and pretty thoroughly shade the ground, I would not try to raise vegetables between the rows as you suggest. If you can secure barnyard manure, fertilize the orchard heartily with it next spring. I would not try to save the pear and peach trees of which you speak.

* * *

In answer to I. L. Barnes, Iowa: You can successfully raise the Jonathan apple by working the Jonathan on Hiernal stock. The Jonathan is not hardy on its own roots for northern Iowa. I think you have been misinformed in regard to the Grimes' Golden for planting in your locality. It is not hardy enough. True you might get a few crops, but when a test winter came, out would go your Grimes' Golden trees. Worked on Hiernal stock it would be somewhat more hardy, but I advise you not to include Grimes' Golden in your planting. Plant Wealthy, Patlou's Greening and a few Duchess, Yellow Transparent and Iowa Brilliant. Of course you will want to make a liberal planting of Delicious. For a commercial orchard plant Wealthy, Patlou's Greening and Iowa Brilliant.

* * *

I have a long and very earnest letter from Mrs. Nelson Price, of Minnesota, in which she seeks my aid in her efforts to keep her two sons on the farm. It is such a human nature story Mrs. Price tells me—how the husband and father, aided by Mrs. Price, carved out a home and a farm on the prairies of Minnesota; of the hardships and deprivations they endured in the making of their farm and home. Now it is a home in the best sense and the farm is valuable and productive, yet the young men—the sons—will have nothing to do with it, but are working in St. Paul. I wish I could solve this problem for this father and mother, but I cannot. The case is the same as confronts thousands of parents. Right here among my acquaintances we have a number of such cases. Of course, in nine out of ten cases the young men are making a mistake, but they cannot see it now. Meantime there is sadness in the home and the hearts of the father and mother are bleeding.

* * *

This week we have been storing our root crops or rather finishing the storing of them. I think the food value of root crops is not fully appreciated by poultrymen and stock raisers. Many roots can be raised almost without cost, as many of them can be sown after the spring crops have been gathered from the garden and field.

* * *

In answer to F. A. Kanss, Wisconsin: You can prevent winter sun scale on your apple trees by giving them a painting of Sulfolice. Use one part of Sulfolice to two parts of water. Apply on the south and southwest of trees with a paint brush. You speak of a white wash. This is also good. The following is a good formula:

- Quicklime30 pounds
- Tallow 4 pounds
- Salt 5 pounds

Water enough to make flow well. This makes a tenacious whitewash, not easily washed off by rain. I have found that Sulfolice prevents damage to young trees by mice and rabbits.

* * *

At this writing, September 30, our asters are a wonderful sight. We have one bed containing several hundred plants of the Giant Crege variety. I have never before seen such fine asters. The individual flower is extremely large and the plant very prolific in bloom. With Queen of the Market and Crege, one may have asters from early until late.

* * *

I have two stands of bees, the one is in good condition, from which I have taken 14 pounds of comb honey. The brood chamber seems to be entirely filled (8 frames) and there appear to be a lot of bees in it; altho I haven't examined the frames except by looking at them thru the space between the frames and by lifting the hive which is very heavy. The other stand did contain bees but was winter killed. I left this hive stand near the other one, after cleaning it out. The frames still have the combs in, but no honey, and in some places are dark and dis-

How to Reduce Costs by Half When Shipping Birds

It's all in the coop. When you use heavy wooden coops you pay more for shipping the coops than for shipping the birds. Besides, nine times out of ten, they arrive with broken feathers and bruised combs and wings, despite the trouble taken to "nail" them up securely.

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O. B. ANDREWS COMPANY, Chattanooga, Tenn.
The World's Largest Poultry Specialties Manufacturers

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CLOSE-TO-NATURE GRAIN SPROUTERS



The Close-To-Nature vapor bath machines produce the succulent sprouts, the vegetable milk, and the grape sugar that bring the eggs. Cut down the feed bill and run up the egg yield. From one bushel grain make two to four bushels of the best of egg-producing green feed. Germinate grain in 20 to 30 hours and force growths of an inch or more daily. We are the originators of the grain sprouter and its largest manufacturers and make three kinds and many sizes from 1/4 bu. to 8 bu.—a few hens to 1,000.

The Double Quick:—the original sprouter, Cypress case outside, galvanized steel grain chamber inside, insulated double walls, for use in zero temperatures, the most efficient and economical sprouter ever put on the market.

The Metal Sectional:—Made of galvanized steel, built in second sections as you need them. Two size bases—small base and sections for back-lot flocks; larger base and sections for egg farms.

The Lampless:—For use in furnace and other heated rooms. Trays slide, not stack up. Drip pan has drain tube. The most convenient lampless now advertised. Get our circulars giving full information on sprouted oats and eggs.

CLOSE-TO-NATURE COMPANY
38 Front Street Colfax, Iowa

HERE IS A BARGAIN

Special Half Gallon Poultry Fountains



Made of heavy galvanized iron—practically indestructible. Handy to carry and will not tip over. Price, 50 cents each, or SPECIAL SALE PRICE while our present stock lasts

6 FOUNTAINS FOR \$2.00

SIMPLEX SUPPLY HOUSE, PETERSON BLDG., CHICAGO, ILL.

Order from this ad or send for catalog

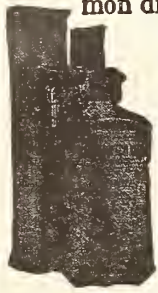
RELIANCE LICE KILLER

Rids your chickens of lice, mites or bluebugs. Only successful remedy given in drinking water without injury to fowls. Reliance Roup and Canker Cure does the work. Reliance Tonic makes hens lay. Reliance Cholera Specific, a sure cure. Reliance Sorehead Remedy never fails. All remedies put up in 25c, 50c and \$1 sizes, and positively guaranteed or money refunded. 1000 chickens treated as easily as 10. Manual of poultry diseases sent free on request. "Chickens cackle for Reliance Remedies"

RELIANCE REMEDIES COMPANY : : : EL PASO, TEXAS

More Eggs?—Use Germozone

A hen with rosy, red comb, bowels in perfect order, free from the common diseases of roup, colds, etc., (and vermin, lice, mites, etc.,) and properly fed, is almost certain to turn out a good profit in eggs.



Other troubles generally start from the bowels. Even lice do not bother much the strong, vigorous, healthy hen. Bowel trouble results most often from eating musty or spoiled food. Excess grain in damp litter, feed boxes, etc., soon gets musty or moldy and that is poison for chickens.

A little Germozone in the drinking water at regular intervals is not a medicine in such cases but is a preventive and corrective of conditions that later cause bowel trouble. We recommend one tablet or one teaspoonful liquid Germozone to a quart of water in the drinking water all day two or three times a week, or every day as a last drink at night.

Germozone is sold by druggists or seed stores most everywhere. We supply both liquid and tablet form.

Ask your dealer. If not obtainable send to us. Prices now are:

- | | |
|-----------------------------------|--------------------------------|
| 12 oz. bottle liquid . . . \$0.75 | 60 tablet package . . . \$0.75 |
| 32 oz. bottle liquid . . . 1.50 | 175 tablet package . . . 1.50 |
| Gallon bottle liquid . . . 4.50 | |

Express paid on two larger sizes

At dealers or postpaid. 5 poultry books free.

GEO. H. LEE COMPANY, Dept. 302, OMAHA, NEB.

colored, nearly black. Now just a few weeks ago I found the hive to be occupied and on opening it found several of the frames all covered with bees, big clusters of them, but all the cells are empty and they have no supplies. What shall I do with this hive to save the bees? I do not know where they came from or how long they have been in the hive. The bees from the other hive did not swarm to my knowledge as I gave them a super early and widened the entrance this summer. Should the bees in the empty hive be fed all winter or united with the other stand? I have a quantity of old granulated sugar that is dirty and unfit for human use that might be fed to the bees, Illinois. Otto E. Hackman.

The fact that hive No. 2 contains no brood comb, hatching bees and eggs shows conclusively that no queen is present in the hive. It is now too late to attempt to build up this colony by re-queening or by giving them stores. The only thing to do is to unite the two colonies. Smoke bees in No. 1 very thoroly. Then smoke bees in No. 2. Place No. 2 on the ground on a cloth. Now dump bees from No. 2 on cloth. Smoke a little and they will enter hive No. 1. Smoke hive No. 1 occasionally while bees are going in. At any time during the spring or summer months if you find a hive in condition of No. 2 take a frame from a strong colony and place it in hive. Be sure there are eggs in said frame. The bees will then rear a queen of their own. Or you can introduce a laying queen. Be sure to examine hive No. 1 carefully. See that the bees therein have enough supplies for winter and to use in brood rearing early next spring. You can feed the sugar of which you speak. Make a rather thick syrup. Feed in one of the regular feeds. Do not set feed out of doors if there are bees near you. If you do you will have robber bees attack your colony and no doubt destroy it.

I notice you always recommend planting the Lincoln pear tree. Please tell me where I can get that variety.

Indiana. H. H. Shreyer. You can secure Lincoln pear trees of the Stark Bros. Nursery & Orchard Company, Louisiana, Mo. There are a lot of the Lincoln coreless pear trees on the market. They are worthless. Plant a few Seckel pear trees with the Lincoln. This for proper polonization of the Lincoln.

During the following few months many readers of the American Poultry Journal will study on the list of fruit trees which will comprise the home planting next spring. The common error is for such persons to choose a list of fruits and varieties of high merit without regard to the proper consideration of how well these varieties will be suitable to the climatic conditions they will be called upon to endure. It is a wholly natural mistake which most inexperienced planters make. I know how easy it is to make this mistake. In northern Iowa several planters put out Wealthy and Patlou's Greening years ago. These are hardy trees and these orchards have annually paid big returns. Wealthy is of high quality, but Patlou's Greening is not, but is fair in quality, a good looker and seller. Higher quality apples could be planted but they would be dead ere this.

USE KEY-RING-O LEG BANDS



Made in 10 Colors—6 Sizes

Black, White, Dark Blue, Pink, Light Blue, Red, Yellow, Green, Purple and Garnet.

	12	25	50	100	250
No. 3—Baby Chick	10c	20c	35c	50c	\$1.15
No. 1—Pigeon	10c	20c	35c	55c	1.25
No. 5—Bantam	15c	25c	45c	75c	1.75
No. 2—Mediterranean	15c	25c	45c	80c	1.85
No. 4—American	15c	30c	50c	85c	2.00
No. 6—Asiatic	15c	30c	50c	90c	2.15
No. 7—Turkey	15c	30c	50c	90c	2.15

Special price on larger quantity.

Send 14c and we will immediately mail you 15 Bands. State size and color wanted.

C. H. GORDINIER Dept. J. TROY, NEW YORK

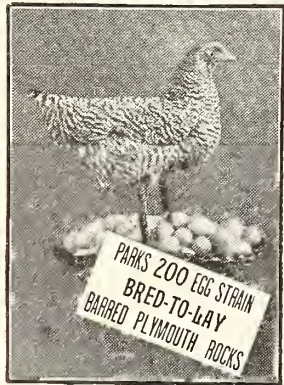
Simple, scientific and absolutely satisfactory. Used by the U. S. Government, by practically every Agricultural College, and by leading Poultry Raisers everywhere.

America's Best Wyandottes—Golden, Silver, White

We offer a large number of our fine stock birds at greatly reduced prices. All birds bred from New York, Chicago and other great show winners. No finer stock living. Large circular free.

IRA C. KELLER, Brookside Farm

Box 75, Prospect, Ohio



Cockerels! Cockerels! Cockerels!

Let Parks' Strain BARRED PLYMOUTH ROCK COCKERELS Put the LAY in Your Flock

They have over twenty-nine years of careful selection, trapnesting and pedigreeing for eggs back of them. Their laying reputation is not built on the work of a few phenomenal layers.

HIGH NORMAL LAYING, with HEAVY WINTER PRODUCTION, has been our aim

The wisdom of such breeding is proven by our strain's present standing, and past winnings in the different laying contests.

Better still, we have over 21 lbs. of favorable reports from customers in every state and a great number of foreign countries.

Cockerel Stock Circular Free. General Catalog a Dime.

J. W. PARKS

Box J

ALTOONA, PA.

1889 ← → 1918

RUDY'S Perfection White WYANDOTTES

Readers Open Forum

The Story of a Beginning.

THE underlying reason for undertaking a new venture is apt to prove interesting, for there is a "why" for every condition upon the face of the earth. I sometimes look at a flock of fowls and wonder why their owner chose that particular variety. Of course, there are instances where fowls have been bought just because they were low in price, but where a man takes up a hobby or a business like poultry raising and has the freedom of choice, he is apt to select a variety for some real reason.

Personally, some years ago I was drawn irresistibly toward the poultry house at the state fair in a far western state and I could not help noticing that there was always a

six years old, my mother gave me a twenty-five-cent "shin plaster" with instructions to go to a neighbor some distance away and purchase a rooster for the home flock of hens. I was justly proud of the commission, but my elder sisters objected to my undertaking so important a journey. "I know he is young," said mother, "but he is a man of untrammelled mind and logical deductions—let him go."

I delivered the money to the lady having roosters for sale and asked for a view of the birds. She had several large cockerels of the Light Brahma order and urged me to take one of those. I probably would have fallen for it, but there suddenly appeared upon the scene a cock bird of no particular pedigree, but profusely red as to plumage



White Orpington hen bred and owned by William N. Otto, 4815 Central Ave., Indianapolis, Ind.

group of interested people in front of the coops containing some fine big red roosters and their demure but scarcely less colored female companions, while pen after pen containing beautiful white plumaged birds were all but neglected by the many.

This was confusing to a constant reader of Petaluma periodicals and a solution of the seeming paradox was sought by inquiry. I did not ask any of the interested exhibitors but casually picked my man out of the crowd—and he was a big black coon with his eye on the "red rooster" coops. He was not an educated "cullud gentleman," but just a common, every day, honest looking negro. For a second he looked blank at my question, evidently not being accustomed to exercising his brain, but Nature soon came to his rescue and he fell back upon the black man's lore of stored up and transmitted chicken knowledge. "W'y, boss, a good chicken's jes' nacherally gotter be red. Yassa! yassa! It's a Kansas fact. Yassa, he done suttinly bound to be red!"

There you are! I had the answer from a first hand primitive source. It carried me back to my own experience in the little home town where this story is written. Just turned

and I chose him. The family were not particularly pleased, but I was allowed to keep the bird, but it was not until years after, when broken somewhat in health, that I returned to the farm determined to take up poultry work in earnest. My first work was to demolish an ancient wreck described as a poultry house and to erect a new building along accepted modern lines. Two coal burning hovers were then purchased and set up in either end of the new house. A nearby hatchery was visited for the purpose of buying day-old chicks. The lady in charge was capable and full of tact. She elicited the information that I was long on theory but short on practice as regards modern methods of poultry keeping, and gave me good advice. Among other things she asked if I had decided on any particular breed.

"Well, I must have good layers and good table fowl and"—here I relapsed into the language of the coon—"they just naturally gotter be red!"

The lady was not in the least perturbed. "Very well," she said, "I have a big hatch of R. C. Rhode Island Reds coming off now. You can have fifty of them and in about

Madison Square Winners. Year after year they sweep the show. Eggs, Show and Breeding Stock for sale. Send a stamp for either Partridge Rock or Turkey catalog.

Get More Winter Eggs

Have healthier, more profitable poultry—and save feed, with the

OK Sanitary Non-freezable CHICKEN WATERER

Increases egg yields. Prevents disease and frozen wattles. Keeps water at the right temperature winter and summer, even in 40 degrees below zero weather. Lasts a life-time. A money saver and a time saver. Soon pays for itself. Inexpensive to operate. Guaranteed. Made in 3 sizes. Low in price.



Free Trial Offer

Write for particulars, also catalog. We also manufacture full line of coops and feeders.

Phillip Bernard Co., 2501 Floyd Ave., Sioux City, Ia.

Get High-Priced Winter Eggs

COLLINS' OAT SPROUTER

doubles egg yield, cuts feed bill, makes hens healthy. No dirt, no trouble; set beside stove, furnace or in sunny window.

- Popular Size, 8 pans - 11 x 15 in., \$4
- Backyard Flock, 5 pans - 11 x 15 in., \$3
- Big Business, 8 pans - 11 x 32 in., \$7

Wed. deliver. West of Miss. add 50c. West of Rockies add \$1

EXERCISER and FEEDER

saves your feed and time; keeps hens active. Bird and rat proof. Simply cut hole in worn-out pail, can, box or bag, and attach. Only 50c. ordered with Sprouter. Alone, add 10c. for P. P.

Egg Testers—Oil, 35c; Electric, 45c

GUARANTEE—Order Sprouter, Feeder and Tester now. Use 10 days. If not the grandest things you've used, return. I'll refund your money.

Dealers & Agents Wanted. Circulars & electros furnished W. H. COLLINS, 20 G Harrison St., NEW YORK



Funk Egg Farm Cockerels

S. C. W. L. TOM BARRON 1918 hatched males from my full blood pens, ready for delivery after September 1. All these birds are from HIGH EGG RECORD TRAP-NESTED females. Prices \$2.50 up. Write for free booklet giving prices and description for fall breeding stock.

FUNK EGG FARM

LYLE W. FUNK, Owner

Box 38

BLOOMINGTON, ILL.

Yesterlaid's are money hens

Profit is fixed in the blood of Yesterlaid Leghorns. Their eggs are big and white. Yesterlaid's are far superior to average hens—they lay better in winter and rot less to feed. Three Yesterlaid's can be raised at the cost of two ordinary chickens because they are so vigorous and quick growing. Valuable details free. *Lady Germany 480 Eggs*



YESTERLAID EGG FARMS COMPANY, Dept. 5, PACIFIC MO

ROCKDALE

WHITE ROCKS

Booking orders for Show Birds Breeders Half Price

DEYOE'S Station 1 DODGEVILLE, WIS.

BRONZE TURKEYS

MEYERSDALE, PA.

PARTRIDGE ROCKS

BIRD BROTHERS

BOX C

"Fried Chicken?"

MEMBER FOOD ADMINISTRATION

FRIED CHICKEN, eh, mother?

Those Sheppard Famous Anconas in our backyard certainly are the best layers of large, white eggs I've ever set eyes on—and when we want an extra nice meat dish without feeling that we're taking beef from our Boys, we can kill a cockerel or a hen and the slightly game flesh is mighty tasty eating. Write to Mary and ask her if she's started Anconas yet—or perhaps it would be best to ask Mr. Sheppard to send her a catalog. I'll do it tonight. She'll cut the cost of living just as we have.

ADDRESS:

H. CECIL SHEPPARD
BEREA, OHIO



three weeks I can let you have one hundred or more additional."

I carried home forty-seven of the liveliest little rascals that ever came out of a shell, tucked them safely under a hover set to a temperature of 90 degrees, wrote out a three years' subscription for the American Poultry Journal (acting on the lady salesman's advice) and became a full fledged breeder of Rose Comb Rhode Island Reds.

In caring for the chicks, we adopted as our watchwords, safety and system. As we used soft coal, the stoves were cleaned morning and evening. The floors were cleaned every day while the chicks were babies, and a cheap disinfectant was used. We used a prepared chick food, supplemented by a Johnnycake baked in the kitchen range. The chicks were kept in for a few days, and whenever the weather was bad, but were soon allowed a little run outside. Water was kept before them at all times and at seven weeks they were allowed the run of the place, and certainly took it! Never were chicks more busy. They invaded the garden, believing my work therein was merely a bug and worm hunt for their benefit. In the truck patch they followed unweariedly in the wake of the plow and the cultivator, until I finally had to fence them out to protect the crops.

I am moving this fall to Wyoming into a great farming district where nearly all the people are farmers, tho the town is a Government town. I shall be glad to send you matters of interest in regard to poultry conditions in that section from time to time the coming year.

Colorado.

Gerald Wach.

Early Laying Pullets.

This is the time when early hatched, well matured pullets should begin to lay. Probably there are many beginners who are wondering why their pullets are not laying one or two eggs each a day, and such are apt to get discouraged where laying is long delayed. A pullet to lay in November, December or January, must have been hatched early and well fed and cared for up to that time. Almost any pullet that lives thru till April will lay. She just can't help it, but in order to get eggs in the fall and early winter, plenty of food and good care must be bestowed upon the birds. A good many novices in feeding a flock of pullets when eggs are not forthcoming will try cutting down the rations, especially as the feed bills keep growing.

It is an unwise proceeding to cut down



Two prize-winning Silver Campine cockerels.

Owmed by Frank E. Hering, South Bend, Ind.

On July first we had our first fry from the April eleventh hatched chicks and since then we have enjoyed once or twice a week the finest meat to be had anywhere. I confess I never knew there is such a difference in "just chicken," but, brother, there is, and the Red is in a class by himself in this respect.

I had a little field of about four acres of oats sown as a cover crop, and because of lack of time these stood in the shock for a long time before threshing, meanwhile making a fine range for the flock of youngsters and rendering valueless the figures on feed costs at this time. However, as the oats yielded sixty bushels to the acre after the chickens had fed on them, I should worry.

We feed whole corn and oats in straw, and a dry mash of wheat middlings, giving a small amount of beefscrap. Plenty of beets, carrots, turnips and small potatoes are fed after being slightly cooked. Oyster shell, grit and coal ashes are always before them and they are given an occasional feed of milk. Most of the food given our flock is produced on the place. I feed a lot of whole corn principally because the birds seem to prefer it. Somehow a hen loves to grab a whole grain of corn above all else.

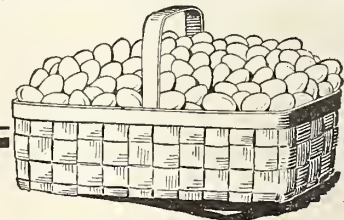
Illinois. H. L. Howard.

Predicts Dollar Eggs.

I have been greatly interested in what your paper has had to say in reference to prices of eggs and poultry during the past year or so, and hope you will keep up the good work. Denver papers are urging people now (September 24) to store eggs for winter use. Eggs are quoted at forty-eight, fifty and fifty-five cents a dozen and everyone is being urged to put up eggs in water glass if they want to have an egg with their ham and bacon for breakfast next winter. The papers say eggs will sell for a dollar a dozen here the coming winter and at present production costs I do not see how any one can keep poultry unless they do go to that figure or higher.

I like the American Poultry Journal and read it from cover to cover. It is the best poultry journal printed. I have been reading it for several years and like the Open Forum and editorial matter especially well.

the food supply of maturing pullets, especially at the beginning of cold weather. It is next to impossible to get a growing bird too fat and the poultryman can rest assured



Eggs Stacked High

will be your reward if you feed

Blue Ribbon Laying Mash

The High Protein Kind
20-22% Protein.

Made from Ground Grains, Meat and Fish Scrap and Alfalfa.

Makes your hens lay in winter—costs less than scratch feed—increases your profit.

This is only one of the famous

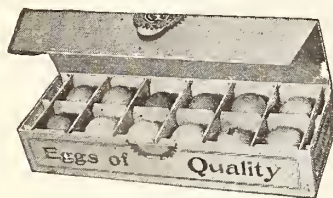
Blue Ribbon Poultry Feeds

Your dealer can supply you—if not, write us.

GLOBE ELEVATOR CO.

25 Seneca St.

Buffalo, N. Y.



THE FINEST
EGG CARTON MADE

The Cut-in-Seal

IS OUR OWN INVENTION

YOUR OWN PRINTING ON ORDERS

SAMPLES FREE

Bloomer Bros. Company
Newark, - - - New York State

BROODER

For \$4.96, including heater, you can build the simplest, most efficient, and most satisfactory brooder ever made. Wind-proof; fire-proof; rat-proof; fool-proof. Can be built by anyone in an hour, with saw and hammer. Plans 10c.

\$4.96

L. PUTNAM, Route 1105 ELMIRA, N. Y.

THE NORWICH AUTOMATIC FEEDER CO.

Manufacturers

Automatic Poultry Appliances

Box 21, NEW LONDON, CONN.

that all the pullets are eating is only what they require for their best development and to enable them to begin laying. The birds require more good nourishing food just before maturity than at any other time and with a good growing flock of pullets there seems to be no limit to their capacity for consuming grain. To deprive them at this time of all the food they require, is to delay laying indefinitely.

If the pullets have been brought in off of range and are restricted in yard room, some green food should be provided. Waste cabbage, root vegetables, such as beets, mangels, carrots and small potatoes, will help to fill this requirement. They should also be supplied with animal food in the form of beef or fish scrap. The houses should not be closed up because of cold nights. The birds have been accustomed to open coops thru the summer and have on their feather coats. They are prepared for cool nights and will keep in health if allowed a constant supply of fresh air night and day and plenty of good wholesome food.

Do not expect yearling hens to lay at this season of the year. They will prove valuable for breeding purposes and produce eggs for hatching in the early spring or late winter, but the hens are too busy now with their fall coats to lay eggs. I figure that my pullets have cost me in the vicinity of \$3.50 each to bring into laying this fall, for they have had the best of care and every grain they have consumed has cost real money. The yearling hens have laid well up to the middle of August and gradually since that time the yield has dwindled until the first of October. I find only one or two eggs in a house. My yearling hens are in good shape and valuable for breeding purposes and I intend to keep the best of them over for breeding without forcing them for laying, and even tho they do not lay until the latter part of February, the expense of keeping them until that time will not be so great as that of bringing a pullet to maturity. It seems to me that by next year the people in cities will have to pay what it costs to produce eggs or go without. There may be plenty of poultry in storage, but I do not think there are enough eggs to make up for the great reduction in eggs produced on farms today. I do not know of any locality where the number of fowls kept has not been tremendously reduced—more so than that of any other animal on the farm, unless it is the horse, and if these gasless Sundays continue poor old Dobbln may get a new lease of life by another year!

Pennsylvania. J. T. Smith.

Poultry Raising on City Lots.

I started to hatch early this season, as I had secured a sprouter and was able to provide my chicks with the necessary green feed. I let the sprouts grow about 2 to 3 inches and then cut them off with the scissors and then let the sprouts grow again. Thus I could harvest green feed several times from the same oats. The chicks relished it very much and how they did grow.

For the older fowls I let the sprouts get one-half to one inch long and then feed it all, sprouts, roots and the oat, which is still there at that stage of the growth.



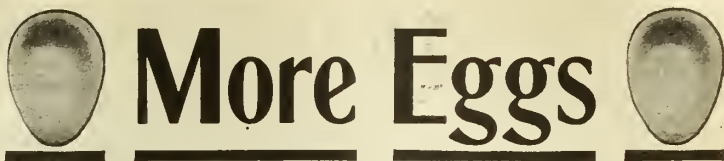
Started January 1 with 72 Red pullets and hens and in spite of the very severe winter weather in January and February they laid up to May 15 3,677 eggs, when I sold half of my breeders.

Started hatching on February 15; had a 67 percent hatch, placed them in my hot water brooder and raised them all. Hatched in all 664 chicks, sold 512 baby chicks and kept 152, of which I did not lose over half a dozen. Average hatch of the season was 85 percent of the fertile eggs.

Total expenses of my flock today amount to \$174.64; total receipts, \$222.82; but no account is kept of the fowls and eggs consumed at home. I also have on hand now 180 head of birds, young and old. This was all done on two city lots and all the feed to buy.

Walnut, Ill.

R. C. Meishner.



If your hens are not producing all the eggs they should, feed them

MILKOLINE

Everyone knows the superior value of BUTTERMILK as a conditioner, but the main objection heretofore to most buttermilk feeds has been the excessive cost, inconvenience and expense of handling, no guaranteed standard and the poor keeping quality during the different seasons.

Overcome all these difficulties by using MILKOLINE, the base of which is PURE MODIFIED BUTTERMILK, with the proper acid and fats added to make it a satisfactory substitute for buttermilk.

MILKOLINE contains a sufficient amount of vegetable oil to form a proper balance and is further acidified to produce the most beneficial results as a valuable addition to the grain foods, and as a wonderful aid to the digestion and elimination of disease germs, thereby allowing the hens to derive more nutriment from every ounce of feed they eat.

Feed Milkoline to Your Laying Hens

So confident are we that MILKOLINE will stimulate the egg producing organs of the hen and help digest the egg forming ingredients from the foods they eat that we do not hesitate to guarantee that MILKOLINE will increase the egg production of your flock.

Give MILKOLINE a trial and convince yourself. If you are not entirely satisfied with results, write us and we will gladly and promptly refund your money.

We have thousands of testimonials from satisfied customers.

MILKOLINE will keep an indefinite length of time in any climate and will not mold, rot, sour or lose its acidity.

Stop buying buttermilk of uncertain quality.

Use MILKOLINE and you will always be sure of an even, uniform acidity at a cost of two cents a gallon, when mixed according to directions.

For feeding, mix one part MILKOLINE with fifty parts water.

ASK YOUR DEALER FOR MILKOLINE. If he does not handle it, do not delay ordering direct from us.

All shipments made promptly on receipt of price.

Booklet and more information FREE for the asking.

Young Pigs and Hogs Thrive on Milkoline

A long-felt want for the hog raiser as well as the poultryman. Keeps young pigs and hogs toned up so that they can resist disease, take on weight quickly and develop rapidly.

PRICES	Per Gallon
1 Gallon, Trial Order...	\$2.25 Delivered
2 Gallons	1.50) P. O. B.
10 Gallons	1.25) Kansas City
32 Gallons (1/2 Barrel)...	1.00)

TRIAL ORDER BLANK

The Milkoline Mfg. Co.,
383 Creamery Bldg., Kansas City, Mo.
You may ship me.....gallons

MILKOLINE. I enclose \$.....

Name

Town

State

The MILKOLINE MFG. CO.
383 Creamery Bldg.
Kansas City Missouri

Just What You Will Need This Winter

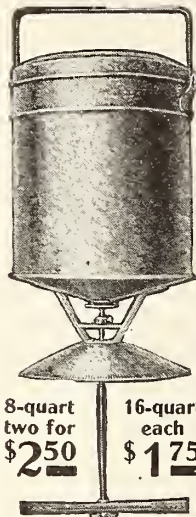
This is the FAULTLESS Automatic Feeder

All you have to do is to fill the can of this feeder with wheat, corn, oats or any other kind of feed, either mixed or separate. When the chickens are hungry they pick at the cross bar; this causes some feed to drop to the ground where the chickens can pick it up. No feed spoils or is eaten by rats or sparrows. **You can save enough feed in one month to pay for these feeders.** Besides the saving of fuel, you save work.

Here Are Our Low Prices

This feeder holds $\frac{1}{2}$ bushel of feed. It is made of heavy rust-proof material. It weighs six pounds packed for shipping. Order by No. 153.

And What is More, we will send you two 8-quart feeders, same style as above, both for \$2.50. These two feeders weigh nine pounds and will not be sold singly. Order by No. 152.



Here is the Feeder for Your Low Coop

Or for Your Baby Chicks



It holds five quarts, will feed any kind of feed, either mixed or separate. It is built on the principle of the large FAULTLESS Feeder and is furnished complete with brackets, which can be attached to the wall or side of a coop at proper height. This feeder is beautifully painted and with ordinary care it will last forever. It is guaranteed to feed your stock perfectly from the time the chicks are able to eat until ready for the ax. We sell this feeder for \$1.00. It weighs $3\frac{1}{2}$ pounds when packed. Get one today and feed your chickens right. Order by No. 151.

We carry a full line of poultry appliances and remedies. We also manufacture the well known Simplex Genuine Feather Brooders and Ilovers—both heated and fireless. Send for our CATALOG; it will interest you.

SIMPLEX SUPPLY HOUSE, Peterson Bldg., CHICAGO, ILLINOIS

DEVELOPING A STRAIN OF HIGH LAYING LEGHORNS

By C. T. Patterson

The problem of high egg production is of vital importance at the present time. The hen which lays 90 eggs per year just pays for her feed. The hen which lays 91 eggs is one egg profit. The hen which lays 200 eggs per year is 110 eggs profit and this one hen is as much profit as a flock of 110 hens which lay only 91 eggs each per year. Producing the high laying average is of far more importance than the phenomenal high laying few.

The results of a number of tests with various methods of selecting and breeding for high egg production indicate that the "Index" method of selection is superior to all others. The first year's trapnest record is only 72 per cent accurate in the selection of high and low egg producers, while the Index is 87 per cent accurate. The Index is a method of determining the hen's ability to perform instead of measuring her performance for a long period of time. It is one thing to know what a hen did do, but another thing to know what she could have done. A factory may have a producing ability of 300 articles per year, yet through no fault of the factory it may produce only 100 or 200 articles. A hen may have a performing ability of 300 eggs per year, yet through no fault of the hen she may produce only 100 or 200. The year's production is the performing ability less the handicaps. Unless the value of the handicaps is given, the year's production is of little value.

The "Index" is determined by measuring the hen's performance for 60 days under the most favorable circumstances. It is then possible to measure the hen's ability to perform. The hen should be trapnested through March, April, May and June of the first laying year and from this time take the highest 60 days from which the hen's index value is obtained.

The hen which lays 30 eggs in 30 days has reached nature's maximum rate of an egg per day and if she continues for 10 months at this rate, it is a 100 per cent year's work of 300 eggs with 65 days left to molt and get ready for the next year. The average hen produces about one-third of her life's production the first year, then 900 eggs is considered a 100 per cent life's production.

The Index is taking 30 days production as the rate and the 30 days production instead of using 10 months and 3 years. The hen which lays 23 eggs in 30 days and 25 eggs during the next 30 days has an index value of 700 eggs for life or 233 for the first year. This is found by multiplying the rate 28 eggs by the persistency of 25 eggs, then take one-third to get one year's index. The index of the male is the same as that of his dam.

By using the Index method of selection the average production of the flock has been increased 50 per cent in 5 years.

After trying and observing the many methods of selecting and breeding for high egg production, it is evident that the Index is the true method of measuring a hen's performing ability.

Experts Sometimes Make Mistakes.

In an October magazine we found a very interesting article on efficiency in poultry, keeping by the several known college "expert." Among the several illustrations we noted one picture of a poultry house which appears to have been reproduced from a photograph we took several years ago on one of the most successful of Rhode Island's egg farms. Beneath the house picture we read, "A very poor poultry house. Hens cannot lay well in such a house."

That only proves that sometimes even efficiency experts make mistakes. The house is a very good sort for the locality in which it is used. This particular house is one of a large group of similar buildings that have housed some of the best laying flocks in the state of Rhode Island for the past quarter of a century or more. In fact, one can take a trip thru the egg farming section of Rhode Island today and find this type of poultry house in use on a large majority of the farms there. Guess again, Mr. Expert! P. T. W.

Notice.

The readers of American Poultry Journal are hereby notified that Hickory Dell Farm, Glenbeulah, Wis., have been accepting orders for stock, but have not been making shipments, and the proprietor, it is reported, has left for parts unknown. All those who have sent orders to Hickory Dell Farm, and have not received satisfaction should at once take the matter up with the postal authorities, either thru their local postmaster or direct to the Third Assistant Postmaster General, Washington, D. C.

Open Air Poultry Houses

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by

Prince T. Woods, M. D.



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AMERICAN POULTRY JOURNAL PUB. CO., 523 Plymouth Ct., CHICAGO

FORCING EGG PRODUCTION

Send stamp for interesting information THOS. C. WENTWORTH Box 62-D CORNISH, ME.

WITH THE EGG LAYING CONTESTS

STORRS EGG-LAYING CONTEST.

Storrs, Conn., Oct. 5, 1918.

First honors for the month of September in the egg laying contest at Storrs went to the "Oregons," the ten birds in the pen laying 219 eggs. Pen 73, White Leghorns belonging to A. P. Robinson, of Calverton, N. Y., was second with 206 eggs to its credit. Pen 78, owned by E. A. Ballard, Chestnut Hill, Pa., won third honors with a total of 189 eggs. The total production for all pens was 13,201 or 44 percent. This is a decrease of 2,251 eggs or 5.8 percent from last month's production.

The accompanying table shows the average pen production for September, the average amount of grain and mash consumed by each pen of the chief breeds, and also the average for the entire 1,000 birds in the contest.

	Grain	Mash	Eggs
180 Plymouth Rocks	32.8	45.6	139
160 Wyandottes	32.1	48.9	140
170 R. I. Reds	32.3	44.7	125
430 White Leghorns	31.6	41.8	130
60 Miscellaneous	33.4	46.4	126
1000 Avg. all breeds	32.1	42.8	132

The ten leading individuals in the present contest are away head of the ten best hens for last year. The following tables show the ten best hens in the present egg laying contest and also the ten leading hens for the past two contests.

Wh. Wyandotte	195	Bridgeton, R. I.	284
Barred Rock	112	Palenville, N. Y.	254
"Oregons"	524	Corvallis, Ore.	251
Barred Rock	23	Pittsfield, Mass.	247
"Oregons"	525	Corvallis, Ore.	245
Wh. Wyandotte	192	Bridgeton, R. I.	244
Wh. Wyandotte	186	Columbia, Conn.	241
"Oregons"	528	Corvallis, Ore.	237
Wh. Leghorn	673	Hollywood, Wash.	233
"Oregons"	529	Corvallis, Ore.	232

The ten leading individuals for the years 1916, 1917 and 1918 are as follows:

1916	1917	1918
No. Eggs	No. Eggs	No. Eggs
272	255	284
257	241	254
253	241	251
252	241	247
250	239	245
249	238	244
245	237	241
244	232	237
244	229	233
237	227	232

It is interesting to note that at least one of the individuals is going to break all previous records for all past contests. White Wyandotte No. 195, owned by Obed G. Knight, of Bridgeton, R. I., is the highest producing hen in the egg laying contest. She has laid 284 eggs and the possibilities are that she will break the high record held by A. P. Robinson's White Leghorn hen No. 728 which laid 286 eggs in the fifth contest.

ARKANSAS STATE LAYING CONTEST

Selection and Care of Pullets. By S. R. Stout, Assistant in Poultry Husbandry.

It will pay any one who raises poultry to spend a little time in the late summer and early fall to select the pullets that they wish to keep for winter layers. If any and all pullets are kept busy, there will be very little or no profit derived from egg production. Especially is this true with the present price of feed. Therefore the success of the poultryman depends upon the selection of his laying stock and then upon the care given this stock.

In selecting pullets for layers, the first thing to look for is birds with perfect health and plenty of vitality. Next, select the busy, wide-awake pullets; and then, those with the ideal body type. No bird that is unhealthy or is low in vitality will ever develop properly for any purpose. A laying hen is always the busy hen, and likewise the busy, wide-awake pullet is usually the one that develops into the good layer.

In regard to the body type, the mistake must not be made of disregarding the breed shape or type, for there cannot be one egg type for all breeds. Depth and width of body comes first in selecting the egg type, for without ample room for the digestive and reproductive organs they cannot attain their maximum development. A rather long body carried high in front and low behind; neck medium in length; head medium; comb and wattles large and well colored; body V-shaped when viewed from side, top and rear; close, compact feathering, short, stout beak and bright eyes are all requisite in

the ideal type. The legs should be short and set wide apart. It is also the best practice when breeding for egg production to select the pullets of good size. They usually lay larger eggs and have a large abdominal cavity which provides more room for the vital organs.

After the selection is made, proper care is very essential. Pullets must have good feed of the proper composition and plenty of it, clean, fresh water and a well ventilated house, which must be kept clean and free from lice and mites.

It is not a good practice to force the pul-

lets intended for egg production, but they must be kept growing and developing gradually. In order to have them mature for late fall and winter laying, they should be hatched early enough to allow them to reach their proper development normally and without forcing.

In the early fall, the pullets should be removed from the range and put in the laying house. They will then become accustomed to their new surroundings before the laying season starts. If they are moved after they once start laying they will invariably stop for a short time.

After they have been put in winter quarters, a good laying ration should be fed. The following is the ration used at this station and is giving good results: Cracked corn, forty-five per cent; feed wheat, ten per cent; and oats or barley, forty-five per cent. This varies with the season, but for the fall the above are the proportions to

Announcement Extraordinary!

America's Two Greatest Strains of

WHITE ORPINGTONS

The
ALDRICH
White
Orpingtons



The
MORRIS
White
Orpingtons

now both have their home at
The Morris Poultry Farm, Lebanon, Ohio

On October 14, without reserve, every Cock, Hen, Cockerel and Pullet, together with good will, mailing list, etc., were purchased by J. S. Morris, proprietor of The Morris Poultry Farm, and on October 15 they were all trucked to The Morris Farm and placed under the skilful and expert management of Harold Rawnsley, superintendent of The Morris Poultry Farm.

THE ALDRICH WHITE ORPINGTONS

have been winning at America's largest shows for many years, having won 1st Cockerel at Madison Square Garden four years in succession and have furnished more winners to customers than any other strain. This is the only exhibition strain that has made high records in the egg-laying contests regularly since 1913. The show-room record, the producing and breeding record of The Aldrich White Orpingtons is well known to every breeder of White Orpingtons.

THE MORRIS WHITE ORPINGTONS "The Proven Leaders"

again "go over the top" to victory with the following September winnings to their credit:

OHIO STATE FAIR
Columbus

1st Cock; 1st and 2nd Cockerel; 1st and 2nd Pullet; 1st and 3rd Hen; 1st Pen.

MICHIGAN STATE FAIR
Detroit

1st Cock; 1st, 2nd and 3rd Cockerel; 1st, 2nd, 3rd and 4th Pullet; 1st and 2nd Hen.

TRI-STATE FAIR
Memphis

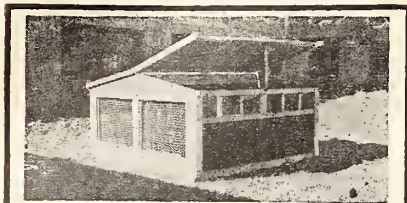
1st Cock; 1st, 2nd and 4th Cockerel; 1st, 3rd, 4th Pullet; 1st Old and 1st Young Pen.

It is the intention of the management of this farm to keep and breed these two great strains of White Orpingtons separate and distinct. Customers can procure Aldrich White Orpingtons or Morris White Orpingtons and depend on getting just what they order.

Orders placed for breeding or show stock from the two best blood lines of White Orpingtons the world has ever known, in November, will be allowed a discount of 20 percent from regular prices. Write us at once and get our November price list on stock.

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Lebanon, Ohio



New Method Increases Profit

The new, simple Philo System plan gets the most from poultry—provides the ideal conditions for maximum production with less expense than other methods—bigger profits, smaller losses.

Thousands of hens that are producing for their owners barely enough to pay the cost of feed would go into the "200-egg" class of big profit payers with the right care and housing.

A dozen hens in the new Philo System house shown above should pay for themselves, their feed and the cost of the house within a year. It is scientifically designed, combines features that bring best results from the fowls with conveniences that make it a pleasure to care for them. Requires space 6x6 ft. Ideal for city lot.

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- 1 **CATALOG FREE.** Full information and prices "Ready-Built" Houses, Incubators, Brooders and supplies of all kinds.
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Adjustable Clinch Bands

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use. This scratch feed is to be fed twice a day in a deep litter. The dry mash which should be before the birds at all times consists of the following: Equal parts of corn meal, wheat bran, wheat shorts, ground oats and meat scraps, and two ounces of salt to the hundred pounds of mash. If the pul-

lets are where they can run on a grass lot or on a rye patch, green feed need not be supplied; but otherwise sprouted oats should be fed. Where milk is available, it is a very good practice to feed it and it will prove very profitable. Always supply clean, fresh water, grit, oyster shells and charcoal.

THE CONTEST

The 100 pullets in the Fourth Arkansas State Egg Laying Contest produced for the month of August 81,239 eggs, or an average of 12.59 eggs per birds. The following is the standing and individual records of the pens for the month of August, 1918:

Pen	Breed and Owner.	Individual	Aug.	Total	Weight
18	S. S. White Leghorns. E. F. Lines, Fayetteville	19-23-22-25-14	195	768	1299.5
6	S. C. White Leghorns. Downer's F. & P. Farm, Rogers	18-10-15-14-17	75	754	1282.0
2	S. C. White Leghorns. Elmer Halter, Conway	19-11-17-17-21	86	685	1142.5
15	S. C. White Leghorns. J. Foster Smith, Ft. Smith	20-11-12- 8-14	67	680	1161.5
7	R. C. Rhode Island Reds. Frank Doujak, Ft. Smith	12-22- 6-15-13	68	655	1204.5
16	White Rocks. Holliston Hill Poultry Farm, Holliston, Mass.	10-17- 8-15-10	62	655	1144.5
14	S. C. White Leghorns. Cummins Ratcliffe, Little Rock	7-17-12- 3- 3	44	653	1137.5
20	Columbian Rocks. Arkansas	25-20-19-23-12	93	646	1097.0
10	S. C. Rhode Island Reds. Miss Nannie Wofford, Rudy	16-14- 2-13-22	68	640	1103.5
4	S. C. Brown Leghorns. Kansas	7-16- 7-13-15	59	631	1052.5
17	S. C. Brown Leghorns. Arkansas	12-17-14- 6-10	60	597	995.0
1	Barred Rocks. Arkansas	6-11- 9- 3- 6	35	589	1013.0
3	White Wyanottes. Tony Gerbino, Texarkana	16- 5-14-10-15	61	589	993.0
12	Barred Rocks. E. F. Lines, Fayetteville	22-17- 5-11- 0	67	571	933.5
9	White Rocks. John A. Clark, Jonesboro	14- 4- 5-17- 8	49	570	1019.5
11	S. C. Rhode Island Reds. Mrs. M. L. Davis, Fayetteville	10-11-16-14- 5	56	570	1098.0
8	Columbian Rocks. H. L. Sternberg, Pine Bluff	14-10- 8-10- 6	50	542	943.0
5	White Rocks. F. E. Kneidler, St. Libory, Ill.	0-14- 4- 5- 2	25	490	833.5
19	S. C. Rhode Island Reds. A. A. Groves, Jonesboro	12-10-12-14- 4	54	442	848.0
13	Partridge Rocks. Arkansas	12- 8-11- 7- 9	48	380	651.0

The five highest hens for the month of August are as follows:

Pen	Hen	Breed and Owner	Eggs
18	4	S. C. White Leghorn, E. F. Lines, Fayetteville	25 tie
20	1	Columbian Rock, Arkansas	25 tie
18	2	S. C. White Leghorn, E. F. Lines, Fayetteville	23
7	8	R. C. Rhode Island Reds, Frank Doujak, Ft. Smith	22 tie
10	5	S. C. Rhode Island Red, Miss Nannie Wofford, Rudy	22 tie
12	7	Barred Rock, E. F. Lines, Fayetteville	22 tie
18	3	S. C. White Leghorn, E. F. Lines, Fayetteville	22 tie
20	4	Columbian Rock, Arkansas	22 tie
2	5	S. C. White Leghorn, Elmer Halter, Conway	21
15	1	S. C. White Leghorn, J. Foster Smith, Ft. Smith	20 tie
20	2	Columbian Rock, Arkansas	20 tie

The five highest hens to date are as follows:

16	8	White Rock, Holliston Hill, P. F. Holliston, Mass.	188
12	7	Barred Rock, E. F. Lines, Fayetteville	175
18	2	S. C. White Leghorn, E. F. Lines, Fayetteville	174
18	4	S. C. White Leghorns, E. F. Lines, Fayetteville	174
7	10	R. C. Rhode Island Red, Frank Doujak, Ft. Smith	160
10	1	S. C. Rhode Island Red, Miss Nannie Wofford, Rudy	157

The five highest pens for the month of August are:

18	S. C. White Leghorns, E. F. Lines, Fayetteville	105
20	Columbian Rocks, Arkansas	99
2	S. C. White Leghorns, Elmer Halter, Conway	86
6	S. C. White Leghorns, Downer's F. & P. Farm, Rogers	75
7	R. C. Rhode Island Reds, Frank Doujak, Ft. Smith	69

Where the sum of the individual records does not equal the total given, the difference is accounted for by the floor eggs, which could not be credited to any individual but are credited to the pen.

I hereby certify that the above is a correct report of the Fourth Arkansas State Egg Laying Contest for the month of August, 1918.

H. E. DVORACHEK, Professor of Animal Husbandry in charge of contest. MARTIN NELSON, Dean and Director Arkansas Agricultural Experiment Station.

Get More Eggs on Less Feed.

Egg prices this winter will undoubtedly be the highest in the world's history. Those who know how to feed to get winter eggs will reap enormous profits, while improper methods mean a loss.

Prof. T. E. Quisenberry, one of the world's greatest poultry authorities and President of the American Poultry School, Box 206, Leavenworth, Kan., has issued a 16-page bulletin on "How and What to Feed for Heavy Egg Production and to Cut the Cost of Feed." This Bulletin will be mailed Free to interested readers, while they last. Hundreds of hens fed and cared for under Prof. Quisenberry's direction have laid 200 to 298 eggs per year, while the normal production, according to the U. S. Government reports, is 60 to 80 eggs per year.

Write today for your copy of this valuable Bulletin.—Adv.

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Size for	12	25	50	100	250	500
Baby Chicks	\$.010	\$.020	\$.030	\$.050	\$.110	\$.200
Pigeons	.10	.20	.35	.55	1.25	2.25
Growing Chicks	.10	.20	.35	.60	1.50	2.50
Bantams	.15	.25	.45	.75	1.75	3.00
Leghorns, etc.	.15	.25	.45	.80	1.85	3.25
Rocks, Reds, etc.	.15	.30	.50	.85	2.00	3.50
Asiatics, Turkeys	.15	.30	.50	.90	2.15	3.75
Turkey Toms	.20	.40	.55	1.00	2.25	4.00

Postpaid, 12 samples and circular 15c. Made by M. BAYERDORFFER HUGENOT PARK, N. Y.

A Notable Event.

DURING the opening decades of the last century when Yankee skippers in clipper ships were carrying the Stars and Stripes to all the far lands of the globe, showing their heels, so to speak, to the fastest ships of all other nations, they left a legacy of romance to which America will never tire listening. In those days when the sluggard was not pampered by a paternalistic government and cajoled into doing a share of his duty it was found that if the gnawings of a man's stomach did not suffice



Main entrance at Oak Dale Farm.

in keeping him busy, a belying pin was often very efficacious. And no one denies that those days were ones of prosperity and advancement. During those times America built the foundation for the great nation that is now looked to by the whole world with thankfulness and gratitude if a friend; with fear if an enemy.

The Yankee masters brought back from their long journeys the choicest products of all lands—the teas, spices and silks of the far east, the rich furs of the arctics, the precious jewels and luxuries of the wide world. And among the many good things in their cargoes when they returned, probably none have been of more lasting benefit to their country, or added more to its riches and prosperity than a few White Leghorn chickens brought back by the captains who touched Italy.

From the first few birds and some later importations have sprung the millions of these egg machines that dot the farms and cities of the earth, and it is entirely fitting that probably the most representative flock of these birds in the world should have the setting of Oak Dale Farms, Austin, Minnesota. Here forty acres of some of the best land on God's footstool have been occupied with the most practical and at the same time handsome buildings and equipment that money and ingenuity could devise.

R. J. Thomson, president; B. H. Naldrett, manager, Howard L. Goss, secretary, and all other members of the company are enthusiastic fanciers, and are satisfied with nothing but the best in any of their undertakings. After experimenting with several other breeds they finally selected White Leghorns as their ideal fowl. They achieved remarkable success in producing heavy layers and prize winners.

Now, a long time ago, before you and I were boys, a fancier down east became interested in the newfangled breed of chickens that had been brought from Italy by the sea captains. He decided to import some for himself; choice specimens, direct from their native heath. This he accomplished in 1855. The gentleman's name was Young. He was the father of D. W. Young, of Monroe, N. Y. This one strain from the original importation has been bred direct by father and son for all these years, and is probably the most famous and noteworthy flock in the world. Mr. Young is a master breeder and his winnings at Madison Square Garden have stamped his efforts with the seal of approval.

Satisfied with nothing but the best, in September the Oak Dale people purchased the entire stock, good will, etc., of Mr. Young and moved the flock, including his Madison Square winners, to their farm at



Hundreds of automobiles overflowed a three-acre field and blocked the main highway.

LeRoy, Minn. It is their custom to hold an annual poultry exhibition at their farm, but the one held by them September 15, 1918, marks an epoch in the poultry industry. The event was widely advertised in the poultry press and newspapers thruout the adjacent territory, and the reader may judge for himself from the pictures shown herewith, whether or not it was a success. It is variously estimated that from six to ten thousand people attended, the automobiles of the guests overflowing a three-acre

OWEN FARMS

*S. C. Rhode Island Reds
White Plymouth Rocks
Buff Orpingtons and
S. C. White Leghorns*

are known all over the world as the best flocks of these varieties.

The record of my birds at Madison Square Garden, New York (where 418 Owen Farms birds have won the blue), Boston, Chicago, New York State Fair, Pittsburgh, and the leading shows of the South, has never been approached.

Thousands of Owen Farms birds have won firsts in the hands of customers.

MY LATEST WINNING

At the Greatest of All Fall Fairs

New York State Fair

SYRACUSE, SEPT., 1918

FIRST DISPLAY IN EACH VARIETY

Reds—1st and 2d cock; 1st and 3d hen; 1st and 3d cockerel; 1st, 2d and 3d pullet; 1st old and 2d young pen, and best display.

White Rocks—1st and 2d cock; 2d and 3d cockerel; 2d pullet; 1st pen and best display.

Buff Orpingtons—1st and 3d cock; 2d and 4th hen; 2d and 3d cockerel; 1st and 2d pullet; 2d old and 1st young pen; best display.

White Leghorns—1st and 3d cock; 2d and 4th hen; 2d, 3d and 4th cockerel; 1st and 2d pullet; 1st old, 1st and 2d young pens and best display.

Customers have won all over the country this fall in both old and young birds.

WHAT YOU WILL FIND HERE

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| 1. Golden Rule treatment. | 6. Naturally grown birds, on free range with same feeding. |
| 2. Exceptional value. | 7. Utmost courtesy. |
| 3. Unequaled Standard quality. | 8. Absolutely square dealings. |
| 4. Unexcelled utility qualities. | |
| 5. Perfect health and vigor. | |

Old customers will endorse every one of these truths. New ones will find them facts.

If you want the highest quality birds for show and breeding at fair prices; if you want strong properly grown utility birds at fair prices; if you want prompt and careful consideration of your inquiry; if you want to make your poultry business successful, you will come to OWEN FARMS.

Liberty Bonds and Savings Stamps taken in payment. You can help Uncle Sam win this war and then secure your poultry needs.

My trade since August first has been well ahead of 1917. The break will come soon. Now is the time for you to get ready to share in the vast volume of business in thorbred poultry that will soon be done by the breeders that have the birds.

Over 6,000 birds are on Owen Farms. Among them are the ones you need. Write your exact requirements and receive a quotation. Come and see for yourself if possible. If you cannot come, write.

OWEN FARMS

Office at 107 William Street, Vineyard Haven, Mass.

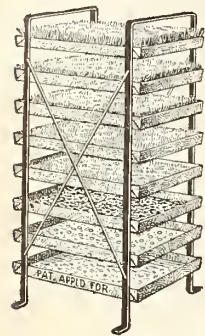
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MORE EGGS

in three winter months by feeding sprouted oats than in any twelve months before, is what one of our customers writes.

Stevens "Evergreen"



OAT SPROUTER

is entirely of metal, simple in construction, strong. Every pan is removable to refill or empty without disturbing others. No dirt or trouble. Guaranteed to please.

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35 Varieties 35 of Fancy Poultry

S. A. HUMMEL
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field and choking the highway. The entire plant of forty acres was alive with interested people. They were entertained with music by two bands, instructive and entertaining addresses by speakers of national reputation, and vaudeville sketches. Attractive young ladies in uniform handled the crowd, explained the exhibits and collected over \$600 for the Red Cross. Buttons were sold for 10 cents up showing that the wearer was helping to re-chicken-ize France. The choicest birds were prepared and shown in exhibition coops, where they at-

tracted interest commensurate with their high quality and reputation. Tho the writer has repeatedly been told it "wouldn't pay," he believes that public auctions of thorobred poultry would prove profitable. If hog breeders can average as high as \$300 and \$400 per head at public sale, he does not see why the same rule would not apply to poultry. The experience of Oak Dale Farm shows that the crowd can be collected by proper advertising and arrangements. Who will be the pioneer?

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from winners at the above shows
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AMERICAN POULTRY JOURNAL
523 Plymouth Court, Chicago

Why More Money.

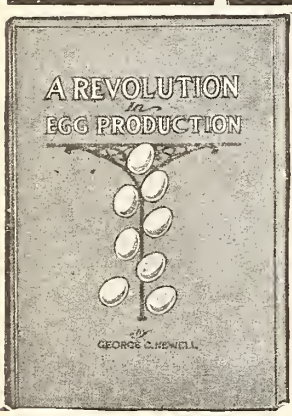
By JOHN FIELD, the Oklahoma Farmer.

The people of the farms of America never fail to support in the fullest measure every activity relating to the war when it is presented to them properly. Their magnificent response to the campaign for Christmas members of the American Red Cross and for funds for the Red Cross last spring, and their prompt purchases of more than their share of bonds of the third and fourth Liberty Loans, showed that previous apparent indifference was due to faulty organization and incomplete presentation of the nation's needs.

The proceeds of the sale of Liberty Bonds

are spent by the government to develop and maintain army and navy. The Red Cross has its own field of service, but there are other agencies, united in a war work campaign at the request of President Wilson, which are asking for \$170,500,000 in the campaign, November 11 to 18. These organizations are: Young Men's Christian Association, Young Women's Christian Association, National Catholic War Council (Knights of Columbus), Jewish Welfare Board, War Camp Community Service, American Library Association, and the Salvation Army. These bodies do what they can to take something of home and its good influences along with the boys wherever they go. They keep our soldiers from feeling that "nobody cares" about them personally by doing for them the little things which the folks at home would do, if only they were where they could. The soldier is not always fighting. He is not always on duty, but he must be doing something. The military organization takes care of the business of war. The organizations now asking for your support supply what they can of pleasure, comfort, and relaxation for the men engaged in war. They work constantly against the disintegrating influence which war has on individuals engaged in it, striving to sustain the mental, moral, and spiritual development of our boys as you would do if they were at home. And so when this campaign for funds to support the United War Work is on it should have the support of every rural community in the fullest measure. Lack of local evidence of the activities of these organizations, where they are not needed, must not prevent appreciation and understanding of what they are doing in camps, cantonments, and battle lines where nothing else can take their place. You will be sending a little bit of home and mother, father and the children, the church and its good influences, to your boys in the army and navy when you contribute to the United War Work Campaign. The more you give, the more you will be sending to them. Give what you know you should—not just your share.

Artificial Light in the Poultry House



has increased the egg production of some flocks as much as **100%**

GEOERGE NEWELL discovered that by the use of artificial light in his laying pens during the early morning and evening of short days, he doubled his egg yield. He put the results and methods of his experiences into a book called

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It is profusely illustrated and contains chapters on Care and Feed in General—Balancing the Ration—Conditions Should Be Watched and Noted—What to Feed—Underfeeding—Overfeeding—Automatic Feeders—Fussing vs. Economy of Time—Water Problems—Housing, Ventilation and Light—Trap Nesting—Incubators or Hens for Hatching—Brooding Problems—What Breed?—Meat Production—By-Product—Yards and Exercise—Spring and Summer Eggs—Fall and Winter Eggs—Care of Eggs—"Ask the Birds; Their Judgment Is Good"—Production Under Present Conditions—Production Records.

Cloth bound, 112 pages, handsomely illustrated, postpaid, price \$1.00

American Poultry Journal Pub. Co., 523 Plymouth Ct., Chicago, Ill.

WINNINGS of A. P. J. ADVERTISERS

This column is open to all American Poultry Journal display advertisers and is compiled from information furnished by the advertiser. Complete winnings of all exhibitors at the larger poultry shows as New York, Chicago, Boston, etc., are published in the issue following the show dates, together with a report of the show by an American Poultry Journal representative.

U. R. Fishel, Hope, Ind., reports the following winnings on his White Plymouth Rocks at Greater Cincinnati American Poultry Association Show, August, 1918: Cocker, 1-2-3-4-5; hen, 1-3-5; cockerel, 1-2-3-4-5; pullet, 1-2-3-5; pen fowls, 1-2; pen chicks, 1; Special, best display. At Indiana State Fair, 1918: Cocker, 1-2-3; hen, 1-2; cockerel, 1-2-3; pullet, 1-2-3; pen fowls, 1-2-3; pen chicks, 1-2-3.

Louis H. Perry, Clay, N. Y., reports the following winnings: At New York State Fair, September, 1918, on Rose Comb White Leghorns, 2-3-5 cock; 1-5 hen; 2-3-4 pullet; 2-3 ckl.; 1-2-3, old pen; 1 young pen; silver cup for best bird; \$10 special for best display. On Rose Comb Buff Leghorns, 1 cock, 1 hen, 1 ckl., 1 pullet, 1 pen. At Hartford, Conn., September, 1918, on R. C. White Leghorns, 1-3 hen; 1 ckl.; 1 pullet. On R. C. Buff Leghorns, 1 cock, 1 hen, 1 ckl., 1 pullet.

John S. Martin, Box 51, Port Dover, Ont., Canada, reports the following winnings on his White Wyandottes: At the Canadian National Exhibition, 1-2-3-4 cocks; 1-2-4-5 hens; 1-2-3-6 ccls.; 1-3-5 pullets; 1 pen; bronze medal for best collection. At New York State Fair, September, 1918, 1-2-5 cocks; 2-3-4-5 hens; 1-2-3-5 ccls.; 1-2-3 pullets; 1 young pen; 1 old pen.

Sunswick Poultry Farm, Box J, South Plainfield, N. J., reports the following winnings on the S. C. Buff Orpingtons at the late Trenton, N. J., Fair: 1-2 cock, 1-4 hen, 1-3 ckl, 1-2 pl, 1 old pen, 1 young pen; special for best display in English class; special for best cockerel, all breeds; special for best pen, all breeds.

Walhalla Poultry Farm, Oscoda, Mich., reports the following winnings at Tri-State Fair, Memphis, Tenn.: On Buff Orpingtons—1-2-3 cock; 1-2-3 hen, 1-2-3 ckl, 1-2-3 pl, 1 old pen, 1-2 young pen. On Buff Minorcas—1-2-3 cock, 1-2-3 hen, 1-2-3 ckl, 1-2-4 pl, 1-2 old pen, 1-2-3 young pen. Also all club specials on Buff Minorcas.

Wilburtha Poultry Farms, Trenton Junction, N. J., report the following winnings on S. C. Rhode Island Reds at New Jersey State Fair: 1-4 cock, 1-3 hen, 1-4-5 ckl, 3 pl, 1 old pen, 1 young pen.

Pratt Food Company, Philadelphia, Pa., reports the following winners, made by birds from the Pratt Experiment Station, at the late New Jersey State Fair, Trenton, N. J.: On S. C. Black Minorcas—1 cock, 1-2-3 hen, 4-5 ckl, 2-5 pl, 2 young pen, 1-2 old pen. On R. C. Black Minorcas—1-2 cock, 1-2 hen. On R. I. Reds—3 ckl. On Pekin Ducks—1-3 drake, 1-3 duck, 3-4 young drake, 1-2 young duck, 1 young pen, 1-2 old pen. On Mallard Ducks—1-3-4 drake, 2-3-5 duck, 1-2-3 young drake, 1-3-4 young duck. On White Chinese Geese—1-2-3 gander, 1-2-3 goose, 1-2 young gander, 1-2 young goose.



U. R. FISHEL HOPE IND

Big Hatches with Little Work

Turn all the eggs
Test them in half
Largely eliminate

in 5 to 10 Seconds
the usual time
airing or cooling

THAT'S THE PROGRAM WITH A BLUE HEN MAMMOTH INCUBATOR

Most of the work which requires *hours* with other incubators you can do in a few *minutes*—or *seconds*—with a Blue Hen!
Few Minutes a Day to Operate a 6,000 Blue Hen!

"It takes only a few minutes a day to operate our 6,000 Egg Blue Hen and our hatches have averaged 65 to 70% of all eggs set—Barred and White Rocks, Reds, Orpingtons, and White Wyandottes, and the chicks are especially strong. Our business has been so good this season that we are adding 18,000 additional Blue Hen capacity for next year."
THE MILLER HATCHERY, Heyworth, Ill., Mrs. Henry Miller, Prop.

PUT IN A BLUE HEN! Take advantage of the enormous demand for Day Old Chicks and Custom Hatching. **GET AN EARLY START!** Tell us what capacity Mammoth Incubator you can use to advantage, and we will send you our catalog, "How to Make Money Hatching and Selling Day-Old Chicks."

Blue Hens are Headquarters for Big Hatches
The few minutes it may take you to write us now may mean many dollars in your pocket later on!

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BRED-TO-LAY
Barred P. Rocks

I have a grand lot of Cockerels to offer of best laying blood at \$3.00 each; also pedigreed stock from high record hens at \$5.00, \$7.50 and \$10.00 each. Circular of facts free.

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Box F LINCOLN, ILL.

What's a **CAPON** and Why?

A BOOK that explains everything you will ever want to know about CAPONS, 50 pictures from life that show each step in the operation. List of Capon Dealers' addresses. Tells how to prevent "slips," where to get the best and cheapest capon tools. Capons are immense eating. Big profits realized. Get wise. This book tells how. Regular 50c copy, prepaid to your address (a short time only), for 10c in coin or stamps.

GEORGE BEUOY R Route No. 71 **CEDAR VALE, KANSAS**

At Indiana State Fair, 1918

One of the premier Fall Poultry Exhibitions, my winnings in very strong competition, with Charles McClave Judge, were First, Second, Third Cock; First, Second Hen; First, Second, Third Cockerel; First, Second, Third Pullet; First, Second, Third Pen Fowls; First, Second, Third Pen Chicks.

U. R. Fishel's White Plymouth Rocks

are better this season than ever. I have not only improved their winning qualities but the egg production as well.

At Cincinnati, O., A. P. A. Show, August, 1918

First, Second, Third, Fourth, Fifth Cock; Second, Third, Fifth Hen; First, Second, Third, Fourth, Fifth Cockerel; First, Second, Fourth, Fifth Pullet; First, Second Pen Fowls; First Pen Chicks; Special Best Display.

I can give you Special Values now in Exhibition Birds, Selected Breeders or Utility Fowls.

Write me your wants, please—Buy Now.

U. R. FISHEL Box A **HOPE, INDIANA**



THE HANOVER FAIR.

Great credit is due Mr. C. N. Myers of Hanover, Pa., and his assistant, Jas. T. Huston, for the magnificent exhibit of poultry at the Hanover Fair, Hanover, Pa., Sept. 17-20, 1918.

In writing us on Sept. 23, Mr. Huston says: "Mr. Myers and the writer have been greatly interested in the success of this exhibition and you cannot say too much in regard to this fall fair event inasmuch as it was the greatest fancier show it has been my privilege to attend in a long time. Over 115 exhibitors showed nearly 2,000 birds, no 'string men,' every exhibitor a specialist in his line. The building was crowded to the door, making it necessary to hold an overflow under a temporary roof. Some classes ran to 100 birds of the single classes. There were no odd varieties shown, but straight, clean, good competition brought exhibitors from as far south as Georgia, all sections of New York, New Jersey, Pennsylvania and Maryland."

Following is a complete list of awards:

Buff Plymouth Rocks—John H. Fleishman, 4 cock, 2 hen, 3 ckl. Geo. W. Wege, 3 cock, 3 hen, 1-5 ckl, 1-5 pl, 3 pen. Brish Bros., 2 cock, 4 ckl. E. E. Blair, 4 pen. Kerlin Farm, 2 ckl, 3 pl. Jos. H. Hertz, 1 cock, 1-4 hen, 2-4 pl, 1-2 pen. Jas. H. Vincent, 5 cock, 5 hen.

Barred Plymouth Rocks—Robert J. Walden, 1-4 cock, 1 hen, 2 ckl. Lewis Swartzbaugh, 2 cock, 1-4 pl. Wm. Overbaugh, 3-5 cock. O. H. Harner, 2 hen. W. G. Boileau, 1-3-4-5 ckl. E. S. Egger, 2-3-5 pl.

White Plymouth Rocks—C. N. Myers, 1 cock, 2-3-4-5 hen, 2-3-5 ckl, 1-3-4-5 pl, 2 pen. Horace W. White, 2 cock, 1 hen, 1-4 ckl, 2 pl, 1 pen. Park W. T. Loy, 3-4-5 pen.

Partridge Plymouth Rocks—H. J. Roth, 1-3 cock, 1-2-3 hen, 1 ckl, 1-2-3 pl. Frank A. Little, 2 cock, 4-5 hen, 2-3 ckl, 4 pl, 1 pen.

White Wyandotte—John T. Fair, 1 cock,

4 hen. Frank Mulhorn, 2 cock, 1 hen. Frank P. Altland, 3-4 cock, 2-3-4 ckl, 1-3 pl, 1 pen. O. H. Hostetter, 2-3 hen; 5 pl. Ward Haffner, 1 ckl, 2-4 pl. L. K. Phreaner, 5 ckl, 2-3 pen.

Partridge Wyandotte—S. J. Harlacker, 1-3 cock, 1-3 hen, 1-3 ckl, 2-3 pl, 1 pen. D. Guy Hollinger, 4 cock, 2 hen, 1-4-5 pl. P. H. Bollinger, 2 cock, 4 hen; 2-4 ckl.

Buff Wyandotte—L. W. Winner, 1 cock, 1 hen, 1-2 pl. F. Arthur Hazard, 2 cock, 2-3-4-5 hen.

Silver Wyandotte—C. S. Shirk, 1 cock, 1 hen, 2-5 pl. Dr. Charmbury, 1-3-4. Dr. T. C. Miller, 2-3-4 hen.

Columbian Wyandotte—Walter Brendle, 2 hen, 3-4 ckl, 3-4 pl. C. E. Trone, 1 cock, 1 hen, 1-2 ckl, 1-2 pl.

Single Comb Reds—E. K. Eichelberger, 2-4 cock, 1-2-3 hen, 1-4 ckl, 1-4 pl. Edwin N. Stevens, 1-3-5 cock, 4 hen, 2-3 ckl, 2-3 pl, 1 pen. Baker Johnson, 5 ckl, 5 pl.

Rose Comb Reds—M. S. Carbaugh, 1 cock, 2-3-4 hen, 1-3-4 ckl, 1-5 pl. U. S. Ricker, 2-3 cock, 1-5 hen; 2-5 ckl, 2-3-4 pl, 1-2 pen.

Buckeye—Clayton Bange, 1-2 cock, 1-2 hen.

Buff Cochins—Reliable Cornish Yards, 1 ckl, 1 pl.

Black Cochins—Reliable Cornish Yards, 1 cock, 1 hen.

Partridge Cochins—Reliable Cornish Yards, 1 ckl, 1 pl.

Black Langshans—DeWitt T. Tree, 1-2 cock, 1-2-3 hen, 1-2-3 pl.

Single Comb White Leghorns—Jesse E. Bair, 1 cock, 2 ckl, 3 pl. Rush C. Little, 1 ckl, 2-4 pl. Walter C. Kale, 1 pl, 1 pen.

Rose Comb Brown Leghorns—O. H. Harner, 1 hen, 1 ckl, 1 pl.

Campines—Selbert Bros., 1 ckl, 1 pl.

Single Comb Black Minorcas—Whatglen Farm, 1-2-3 cock, 1-2-3-4-5 hen, 1-2-3-4-5 ckl, 1-2-3-4-5 pl, 1-2 pen. Brish Bros., 4-5 cock.

Golden Penciled Hamburgs—O. H. Hostet-

ter, 1 cock, 3 hen, 2 ckl, 4 pl. C. N. Myers, 1 hen, 1 ckl, 2-3 pl, 1 pen. Robert J. Walden, 2 hen, 2 pen. Lewis Swartzbaugh, 1-5 pl.

Houdans—Samuel J. Miller, 1-2 hen, 1 ckl, 1 pl, 1-2 pen. Millie Miller, 2 ckl, 2 pl.

Lakenvelders—Selbert Bros., 1 cock, 1 hen, 1 ckl, 1 pl.

Dark Cornish—Reliable Cornish Yards, 3 cock, 2 ckl, 1 pl, 2-3 pen. M. C. Wise, 4 cock. John H. Staley, 2 cock, 1-3-5 hen; 1 ckl, 2 pl, 1 pen. Maus Bros., 1-5 cock, 2-4 hen, 3-4 ckl, 3 pl. C. N. Myers, 5 ckl.

Red Laced Cornish—J. A. Wildasin, 1-2 cock, 1-2-3 hen.

Black Sumatras—Samuel Topaz, 1 cock, 1 hen.

Pit Games—Samuel Topaz, 1-2-3 hen, 1-2-3 pl. Walter Brendel, 1 cock.

BANTAMS

Bantam awards are as follows:

Golden Sebrights—Allen E. Starr, 1-2 cock, 2 hen, 1 ckl, 2 pl. M. B. Bickel, 3 cock, 1 hen, 2 ckl, 1 pl. Huston Bros., 4 cock, 2 hen.

Silver Sebrights—Allen E. Starr, 3 cock, 5 hen, 2-3 ckl, 1-3 pl. Chas. E. Auman, 2 cock, 2-3-4 hen. M. Bickel, 1 cock, 1 hen, 1 ckl, 2 pl.

Rose Comb Whites—P. E. Frey, 4 cock. Chas. E. Trone, 1-2-3 cock, 1-4 hen, 1-2-3 ckl, 2-3-4 pl. M. B. Bickel, 2-3 hen. Sheets Bros., 5 cock, 5 hen, 4-5 ckl, 1-5 pl.

Rose Comb Blacks—P. E. Frey, 2 cock, 1-3 hen, 2-5 pl. Chas. E. Trone, 1-3 cock, 2-4-5 hen, 1 ckl, 1-3-4 pl, 1 pen. M. B. Bickel, 1 pl.

Booted White—O. H. Harner, 1 hen. M. B. Bickel, 1 cock, 1 ckl.

Light Brahmas—O. H. Harner, 2 cock, 1 hen, 1 ckl, 1-2-3 pl, 1 pen. Huston Bros., 1 cock, 2 hen.

White Cochins—T. H. McCausland, 2-3 cock, 1-2-4 hen, 1 ckl, 1 pl. M. B. Bickel, 1 cock, 3 hen, 2 pl.

Black Cochins—Joel H. Moyer, 2-3 cock, 3-4 hen, 1-4 ckl, 2-3 pl. A. P. Ingram, 4 cock, 5 ckl, 1 pl, 3 pen. Howard Y. Haffner, 5 pl. Walter Sell, 5 hen. Geo. W. Wege, 2-3 ckl, 2-4 pen. M. B. Bickel, 1 cock, 1-2 hen, 1 pen. Sheets Bros., 5 cock. P. E. Frey, 4 pl.

Partridge Cochins—Grover C. Hoffman, 1-2-3 cock, 1-2-3 hen, 1-2-4 ckl, 1-2-3-4 pl, 1 pen.

Buff Cochins Bantams—E. J. Menchey, 5 cock, 2 hen, 4-5 ckl, 3-4 pl. Jno. R. Slote and Son, 2 cock, 3 hen. A. P. Ingram, 2 ckl, 5 pl. G. W. Wege, 3 cock, 1-5 hen; 1 ckl,

ROBADEL POULTRY FARM

MAKES RECORD WIN

ON

SINGLE COMB WHITE ORPINGTONS

AT

NEW YORK STATE FAIR, SYRACUSE, N. Y., SEPTEMBER 9 to 14, 1918

Cocks - - 1st, 2nd, 3rd, 4th and 5th prize
Hens - - 1st, 2nd, 3rd, 4th and 5th prize
Cockerels - 1st, 2nd, 4th and 5th prize
Pullets - - 1st, 2nd, 3rd, 4th prize

Exhibition Pens:

1st prize—old pen
1st prize—young pen

And All Special Prizes

CHARLES HUBBARD

General Manager, formerly Foxhurst Farm, Lime Rock, Conn.

ROBADEL POULTRY FARM, Cos Cob, Conn.; A. C. ROBERTSON, Owner

BREEDERS OF

Single Comb White Orpingtons Single Comb Black Minorcas
Single Comb Buff Orpingtons Single Comb White Leghorns

THIS PROVES THE CLAIMS we have been making and demonstrates conclusively that we have high-class birds in large numbers, particularly in view of the fact that our competition included guaranteed winners for this show which were supplied by other large breeders. All sales made by us, whether stock or hatching eggs, are positively guaranteed.

If interested, write us.

1-2 pl. Bupp and Benedick, 1-4 cock, 4 hen. M. B. Bickel, 3 ckl.

White Japanese—M. B. Bickel, 1 cock, 1 hen. Mrs. Clayton Bange, 2 cock, 2 hen.

Black Japanese—T. H. McCausland, 1 cock, 1-2-4 hen, 1-2-3 ckl, 1-2-3 pl. M. B. Bickel, 2 cock, 3 h.n.

A. O. C. Japs—M. B. Bickel, 1 cock, 1-2 hen.

Silky Bantams—Grover C. Hoffman, 2 cock, 3 hen, 1-5 ckl, 1-5 pl. P. E. Frey, 3 cock, 4 hen. Mrs. Emma Imhoff, 4 ckl, 2 pl. Bupp and Benedick, 1-4 cock, 1-2 hen, 2-3 ckl, 3-4 pl.

Bearded White Polish—M. B. Bickel, 1-2 cock, 1-2 hen, 1-2 ckl, 1-2 pl.

Non-Bearded Polish—Walter Sell, 1 hen.

Black Breasted Reds—Linstead Farms, 2-4 cock, 2-5 hen, 1 ckl, 5 pl. Carl Norwig, 3 cock, 3 hen, 2-5 ckl, 1-2 pl, 1-2-3 pen. M. B. Bickel, 5 cock, 4 hen. W. W. Hepburn, 1 cock, 1 hen, 3-4 ckl, 3-4 pl.

Golden Duckwing—Linstead Farms—All awards.

Silver Duckwings—Linstead Farms—All awards.

Birchen—Linstead Farm, 1-2-3 cock, 1-2 hen, 1-2-3 ckl, 1-2 pl. Mrs. R. J. Walden, 4 cock, 3-4 pl.

Red Pyle—Linstead Farm, 1-2 hen, 1-2 ckl, 1-3 pl. Walter Sell, 2 cock, 4-5 hen, 4-5 ckl, 2-4 pl. M. B. Bickel, 1 cock, 3 hen, 3 ckl.

Black Game—Linstead Farms, 1-2-4 cock, 1-2-3 hen, 1-2-3 ckl, 1-2-3 pl. M. B. Bickel, 3 cock, 4 hen, 4 ckl, 4 pl.

White Game—Linstead Farms—All awards.

Old English Game—Linstead Farms, 1-4-5 cock, 1-2-3 hen, 1-2-3 ckl, 1-2-3 pl. Walter Sell, 3 cock. M. B. Bickel, 2 cock.

Dark Cornish—Linstead Farms—All awards.

Other winners in the poultry department follows:

Turkey—Brown Bros.—All awards.

Guineas—Brown Bros.—All awards.

Pekin Ducks—Walter Sell, 3 cock, 3 hen.

Whatglen Farm, 1-2 cock, 1-2 hen.

Mallards—Whatglen Farm—All awards.

Mandarin—Samuel Topaz.—All awards.

White Call—Whatglen Farms.—All awards.

Black East Indian—Whatglen Farms.—All awards.

Colored Muscovy—Walter Sell.—All awards.

White Muscovy—Walter Sell.—All awards.

Indian Runner—Brown Bros.—All awards.

White Indian Runner—Whatglen Farms.—All awards.

Toulouse—Whatglen Farms.—All awards.

White Chinese—Whatglen Farms.—All awards.

RABBITS

Belgian Hares—Earl Hertz, 3 young doe. Smith & O'Neill, 2 old buck. Bernard Eck, 3 young buck, 5 young doe. Walter Brendle, 3 old buck, 1 old doe, 2 young buck, 4 young doe. Raymond Ruth, 1 old buck, 1 young buck, 1-2 young doe. Metropolitan Pet Stock Yards, 4 young buck.

White Rabbits—Walter Brindle.—All awards.

Utility—Walter Brendle.—All awards.

Black Flemish Giants—Earl Hertz, 1 young doe. Smith & O'Neill, 1 old doe, 2-3 young doe. Walter Brendle, 1 young buck. Carroll Barnes, 1 old buck, 2 old doe.

Gray Flemish—Smith & O'Neill.—All awards.

GUINEA PIGS

Peruvian—Metropolitan Pet Stock.—All awards.

English—W. G. Hollinger.—All awards.

Angora—Metropolitan Pet Stock.—All awards.

Abyssinian—Metropolitan Pet Stock.—All awards.

An Announcement.

The Cleveland Poultry Breeders' Association at its last regular meeting held the 3d inst., after due and thoughtful consideration of all the questions involved, decided, by a unanimous vote, not to hold a show this year. The reasons for the action noted above are many and obvious, two of which only will be cited.

First, and the prime reason, we find that for the only hall available in our city the rent asked is almost prohibitive, in fact it is positively so when all things are taken into consideration.

Second, and as a sequence to the first, the many and various conditions that have been forced upon us all by the war make it impracticable and well-nigh foolhardy for our association to attempt to give an exhibition worthy of its traditions. We are not of those who argue "that any kind of a show would be better than no show at all," for we do not believe it. We have endeavored in the past to maintain A1 exhibitions, and we have no desire at this time to attempt an undertaking that, in all probability, would lower our standard.

While the action cited above is reluctantly taken, yet we deem it best for all concerned that we postpone the holding of a show for one year, or until times become more propitious. Our association is intact and fully alive to the situation, and when the proper time arrives will make a "come back" that

AT MEMPHIS TRI-STATE FAIR

Moraine Farm Speckled Sussex made a clean sweep, winning:

**1, 2, 3, Cocks 1, 2, 3, Cockerels 1, 2, Young Pen
1, 2, 3, Hens 1, 2, 3, Pullets, 1, 2, Old Pen**

Eventually you will breed Speckled Sussex, the best table fowl.

Get started with a pen of Moraine Farm birds. They pay a profit in meat and eggs. Send for catalog and enclose 20c. for two beautiful color prints of male and female Speckled Sussex.

MORAINE FARM, Poultry Dept.

R. R. 16, Dayton, Ohio

Quality Better Than Ever



At Wilburtha Farms, you'll find some of the finest youngsters that ever graced a pen—Birds finished for Fall and Winter Shows. We specialize in

White Plymouth Rocks

White Leghorns S. C. R. I. Reds

We have plenty of high-class Breeders on hand. Write us what you need. We'll give your letter individual attention and quote you reasonable prices. Chas. J. Fiske, Owner. M. L. Chapman, Gen. Mgr.

WILBURTHA POULTRY FARMS

27 River Road

Trenton Junction, N. J.

DON'T FORGET

PITTSBURGH EIGHTH ANNUAL SHOW

January 13 to 18, 1919

Poultry Exhibition OF PITTSBURGH

Entries Close January 1st
Poultry, Pigeons, Pet Stock

J. Leonard Pfeuffer, Secretary
Commonwealth Bldg., Pittsburgh, Pa.

WHERE THE BEST BIRD WILL WIN

THE DEMAND FOR

Pritchard's Genetic Anconas

has been unusually heavy and I am already out of stock for sale. They have "made good" in the hands of my customers. I am now booking orders for

Hatching Eggs and Baby Chicks

If you want to be sure of getting some of this scientifically bred strain for eggs and beauty, write for my circular and place your order early. I won 1 pen, 2 pen and 2 cockerel at Ill.-Ind. State Fair. They win—they lay—they pay. That's the breed and strain you want. Write today for circular.

FRANK P. PRITCHARD NATURALIST BREEDER RA2, FAIRMOUNT, ILL.

BROOKSIDE WHITE WYANDOTTES

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Two years in succession they led all varieties in competition at Leavenworth, Kan., for winter eggs. Highest award 1916-1917 American Contest. Leading pen of White Wyandottes present American Exhibition Breeders' Egg-Laying Contest. Also in competition with the world's best bred-to-day strains at the Missouri Contest they stand among the ten best pens to date. Two pullets laid 228 and 206 eggs, 11 mos., and scored unconditioned 93 and 94½ respectively. Cockerels related to these winners \$3 and up. No pullets. Catalog free.

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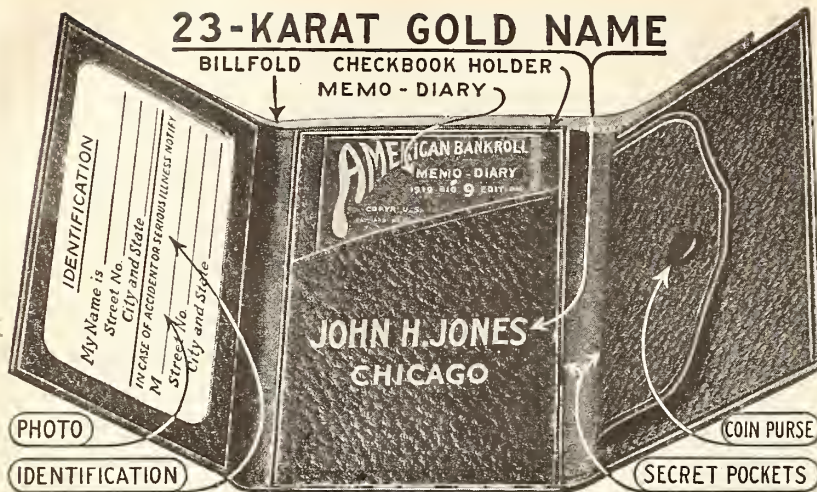
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FOUNDATION Stock purchased and imported from Europe's best breeders. February, March and April young stock for sale. Fine exhibition and breeding specimens. Both breeds non-sitters, very handsome—the Orloff an exceptional Utility Fowl. Our stock reared under ideal conditions, a thoroughly modern, sanitary plant. Highest Bank References.

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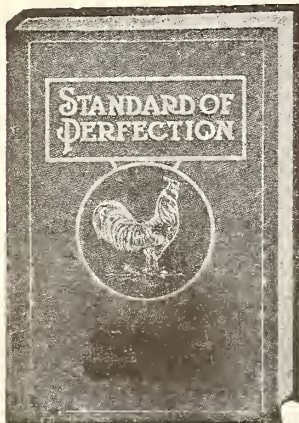
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from Chicago Coliseum and Madison Square Garden Winners. Won at Madison Square Garden Show, 1917-18: 1st and 3rd Cock, 2nd, 3rd, 4th and 5th Hen, 1st and 2nd Cockerel, 1st, 2nd and 3rd Pullet and 1st Pen.

Imperial Poultry Farm R. F. D. 1 Elizabeth, N. J.

will be highly pleasing to itself and the fanciers. To those fanciers who gave us their support in the past we extend hearty and appreciative thanks, and ask, for the present, their patient indulgence as well as their valued co-operation in the future.

Respectfully,

Geo. H. Poulson, Pres.,
A. E. Rehburg, Sec. Pro Tem.

Cleveland, O., October 4, 1918.

COLISEUM GETS AMERICAN BUFF WYANDOTTE CLUB MEETING.

Important Notice to Buff Wyandotte Breeders.

The notice of this meeting was received after the Coliseum premium list had been printed and many copies mailed. Following is a list of specials that are offered in addition to the ones printed in premium list:

CLUB SPECIALS.

The American Buff Wyandotte Club, Andrew C. De Hass, Albany, N. Y., secretary, offers to club members only, a club cup for best cock, club cup for best hen, club cup for best cockerel, club cup for best pullet and club cup for best pen. Also club ribbons, one for best shaped male, one for best shaped female, one for best colored male and one for best colored female. If not a member of the club, send \$1 to Mr. De Hass before the close of the entries.

The Coliseum Association will offer a \$25 cup for best display, \$5 cash for 10 best colored birds by one exhibitor and \$5 cash for 10 best shaped birds by one exhibitor. The Coliseum regular cash specials as printed in the premium list offer for 50 entries, \$10 cash for best display and \$5 cash for second best display. For 100 or more entries, \$25 cash for best display, \$20 for second best display and \$15 for third best display. These cash specials are offered in addition to the regular cash prizes covering all varieties. Chas. V. Keeler will judge the class.

Remember entries close November 15. For premium list address the secretary, Theo. Hewes, Lexington Hotel, Chicago, Ill.

Pittsburgh Eighth Annual Show.

Owing to the dates as announced heretofore conflicting with the Madison Square Garden, it was decided to change same and hold the Pittsburgh Show the week of January 13 to 18. The following judges and classes which they will judge were decided upon. There might be some slight changes, however, in same: Richard Oke, all Orpingtons, Cochins and Cochins Bantams; Chas. McClave, all Leghorns (except Buffs), Barred Rocks, Lakenvelders and turkeys; Len Ravensley, Red, Cornish, Sussex and all Bantams, except Brahmans and Cochins; Thos. C. Samuels, Minorcas, White Wyandottes, Spanish, Langshans, R. I. Whites and Buckeyes; F. I. Bradford, Andalusians, Brahmans, Buttercups, Campines; Fred A. Poertner, Buff Rocks, all Wyandottes (except White) and Buff Leghorns; George H. Hilderbrand, White Rocks, Partridge and Silver Laced, Hamburgs, Houdans and Polish; Wm. F. Auerswald, Columbian Rocks, Waterfowls, Faverolles.

It was also decided to use the Keiper Cooping Company coops at the coming show. In reply to a request from President Richards of the American Poultry Association, it was decided to donate a booth to the association to further the interest of the A. P. A. The premium list will be ready the early part of December and former exhibitors will have one mailed to them when published. The prizes and entry fees will practically remain the same as last year. Those desiring further information should address the secretary, J. Leonard Pfeuffer, Commonwealth Bldg., Pittsburgh, Pa., and premium list will be sent when published.

Greatest Thanksgiving Poultry Show.

The 1918-19 show season for Standard bred poultry will open with one of the best shows to be held, when "The Heart of America Show" swings wide the doors of the great Convention Hall at Kansas City, Mo., Thanksgiving week, to what now gives every indication of being the most successful exhibition season in the central states for many years past.

This show has finally secured the use of all of the great Convention Hall, which makes one of the largest and best lighted show rooms in America.

A list of licensed American Poultry Association judges second to none, representing North, East, South and West, have been secured to place the awards. These judges include J. H. Drevendstedt, of New York; Jas. A. Tucker, of Michigan; E. C. Branch and V. O. Hobbs, of Missouri; Capt. Harlo J. Fiske and Russell F. Palmer, of Kansas, and Walter J. Burton, of Texas.

The premium list for this show is now ready and will be sent to any breeder who writes to Chas. Brunske, secretary, 1914 Elmwood Ave., Kansas City, Mo.

Embargo on Shipment of Live Stock by Express.

To All Poultrymen and Members of the American Poultry Association:

The American Railway Express Company, the name now given to all former express companies, and now under Federal management, has advised the American Poultry Association that as a war measure an embargo, effective between December 10 and 31, will be placed upon the express shipments of all live stock, live animals and live birds in all the territory east of the Missouri River to St. Louis, and thence east of the Mississippi River to the Gulf of Mexico. In all other territory poultry shows may be run as usual. Such a ruling precludes the possibility of shipping Standard-bred fowl to poultry exhibitions in territory covered by the embargo between these dates, and as a consequence said ruling might conflict with your show, provided it is planned to have our association draw birds from territory requiring express shipments.

In view of the ruling of the American Railway Express Company, it is hoped that your association will arrange matters, and hold its exhibition either before or after the period of the embargo. Call a meeting of your association at once, and make arrangements to hold your exhibition. Get into correspondence with your judge for new dates, for the embargo will change the judge's arrangements and it will be necessary to meet the new conditions in the best possible manner. Quick action on the part of your association, at this early date, will enable it to hold a show before December 10 or immediately following December 31. Wishing your show success, I remain,

Yours respectfully,
E. E. Richards, President.

In order to secure the co-operation of the American Poultry Association judges, and all others as well, the following message has been forwarded:

To American Poultry Association Judges:

The American Poultry Association is advised by the American Railway Express Company, the Federal designation of all express companies, that as a war measure, an embargo is to become effective December 10 to 31, during which time no live stock will be transported by express in all territory east of the Missouri River to St. Louis, and thence east of the Mississippi River to the Gulf of Mexico—Minnesota included.

It has been thought advisable to give you advance notice of this embargo, so that you may be given ample opportunity to re-arrange your judging dates and to be able to meet the new requirements for judges' service. Get into correspondence with your associations under contract at once. Many associations will be glad to change their dates to meet these war conditions.

Respectfully,
American Poultry Association,
E. B. Campbell, Secretary.

Some Interesting Facts About the Coliseum Show—The Last Call.

The 10th annual exhibition will be held in the Coliseum building, Chicago, Ill., December 3, 4, 5, 6, 7 and 8, 1918, with December 2 to get in and December 9 to get out. The show opens to the public on Tuesday and closes Sunday night.

Every breed and variety has been taken care of with some cash specials, in addition to the regular cash prizes. The association will pay the same prizes as last year, with additional cash on turkeys and geese.

The following specialty clubs will hold their annual meetings at the Coliseum this year:

The American Light Brahma Club, with \$110 in cash and two \$25 cups and club ribbons.

The American Wyandotte Club, with \$85 in cash, a \$25 cup and club ribbons.

The National White Wyandotte Club, with \$200 in cash and club ribbons.

The International Plymouth Rock Club, with \$150 in cash and club ribbons.

The International Turkey Club, with \$50 in cash and club ribbons.

The Rouen Duck Club, with cups and ribbons.

The combined show of the Chicago Bantam Club and the Middle West Bantam Association.

The National Breeders and Fanciers Association, representing every fur-bearing animal known to man, with \$100 in cash, numerous cups and other specials.

In addition to these club meets, the Rose Comb Rhode Island Red breeders have put up \$100 in cash that is to be divided into four displays.

The Single Comb Rhode Island Red breeders have put up \$50 cash to be divided into three displays.

There are five \$50 trophies, without a question the best that have ever been offered at any poultry show in America; one each to be awarded to the best 10 birds in the following breeds: Plymouth Rocks, Wyandottes, Rhode Island Reds, Leghorns and Orpingtons, all varieties of these breeds to compete for these trophies and

Get More Eggs Waste Less Feed

Increase income—reduce costs! Make your hens lay heavily now while eggs are bringing high prices. Prevent feed waste due to sluggish or imperfect digestion. Make every hen lay by using

Pratts Poultry Regulator

The sure-fire egg-producer which has triumphantly stood every test of nearly a half-century of general use.

Pratts Poultry Regulator is not a severe stimulant which gives but temporary results. It does not force but induces hens to lay because it builds them up naturally, puts them in such fine physical condition that regular egg-production is bound to follow. And it keeps them laying right through the period of high prices. It assists the birds to thoroughly digest and make use of every particle of food, thus prevents waste and reduces feed costs. Test it with a part of your flock and compare results.

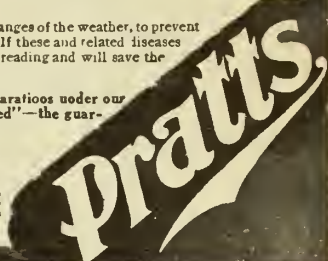
Pratts Roup Remedy should be used occasionally, especially during changes of the weather, to prevent roup and colds which are so common during this season of the year. If these and related diseases appear in your flock, Pratts Roup Remedy will prevent them from spreading and will save the sick birds.

Our dealer in your town has instructions to supply you with Pratts Preparations under our square-deal guarantee—"Your money back if YOU are not satisfied"—the guarantee that has stood for nearly 50 years.

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November Price List Now Ready

Just drop a post card to our Poultry Feed Department No. 51 and a complete price list will be sent to you.

Sears, Roebuck and Co., Chicago

Nebraska State Show

GREATEST SHOW WEST OF CHICAGO

ATTRACTIVE premiums and specials in cash. \$5,000 appropriated by the State for use in conducting this exhibition. Held in a magnificent auditorium at Holdrege, Neb., January 20 to 24 inclusive.

Write for Premium List and Information

M. G. SCUDDER, Secretary KEARNEY, NEB.

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Different from all other Grit.
No additional Grit needed.

CRY-S-CO.

99% PURE CARBONATE OF LIME.

BETTER THAN OYSTER SHELLS

IF YOU WANT MORE EGGS AT LESS COST

ENDORSED BY LEADING A.P.A. MEMBERS AS WELL AS THOUSANDS OF POULTRY RAISERS.

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THE COLISEUM

CHICAGO

The World's Greatest Poultry and Pet Stock Show

Will Hold Its
TENTH ANNUAL EXHIBITION
December 3, 4, 5, 6, 7 and 8, 1918

The Show Opens on Tuesday and Closes on Sunday Night

Regardless of increased rental almost doubling that of former years; regardless of increase in every item of show expense; regardless of war and the thousands of inconveniences occasioned by the war,

THE GREAT COLISEUM SHOW

will be held as advertised. This, we feel, is our solemn duty to the loyal fanciers of this country, and we will not shirk this responsibility.

THE COLISEUM

is the one show west of New York that for nine consecutive years has met every obligation in full and in cash without the sale of one dollar of its capital stock. The same liberal guarantee is offered you for 1918.

THE COLISEUM SHOW

has introduced more new features that have worked to the betterment of the fanciers than all other shows in America combined, and this year we will introduce two additional features that will revolutionize the poultry shows of this country.

A WINNING AT THE COLISEUM

on any breed or variety in 1918 will carry with it a greater advertising value than any win you can make this season. The dates are ideal, coming ahead of extreme cold weather and ahead of all other National shows, on the same dates as the great International Stock Show. We put you in touch with the greatest buying public that will congregate anywhere this winter. Our reputation as a sales show is established. Not one year but every year the calls surpass the supply for high class birds, and, so far as we are able to learn, it is the only show where a legitimate sale of \$5,000 was ever made by a single exhibitor.

THE COLISEUM SHOW

is the only National show that absolutely guarantees its concessionaires. It is our proud boast that we have never sold space to a faker.

Yes, the Coliseum Show Will Pay Cash Prizes

In fact, there is more real cash offered this year than ever before. This is no time to retrench or count postage stamps. This is the time for big things and we represent a big industry. The legitimate breeder needs all the encouragement the shows can give him and we are giving it freely. In addition to our liberal cash prizes, there will be a \$50 trophy for the best ten Plymouth Rocks, a \$50 trophy for the best ten Reds, a \$50 trophy for the best ten Leghorns, a \$50 trophy for the best ten Orpingtons and a \$50 trophy for the best ten Wyandottes.

THE PREMIUM LIST IS NOW READY

All exhibitors at the 1917 show will receive the list without request; others should write the secretary for a copy at once, as the list will not be mailed indiscriminately. Old exhibitors not receiving the list by October 10 will please write for it, as there is much uncertainty about mail delivery. Entries positively close November 15. For list of judges, see notice published in this issue.

Address of secretary until October 15, Indianapolis, Ind. After October 15, Lexington Hotel, Chicago. The Lexington Hotel has been selected as headquarters.

Chicago and suburban residents desiring space in the Coliseum may get information from James W. Bell, care of American Poultry Journal, 523 Plymouth Court; but for premium list address

THEO. HEWES, Sec'y.

awards will be made to the 10 entries that come nearest to Standard perfection, regardless of color.

A class is made in the Coliseum for every breed and variety of breeds, Standard and non-standard, and cash prizes will be paid to all of them.

Entries in all departments will positively close November 15. If you have not received list, send for it today, as it will be mailed only on request.

For premium list and information in regard to concession space, write Theo. Hewes, secretary, Lexington Hotel, 22d St. and Michigan Blvd., Chicago, Ill.

Black Leghorn Club News.

The American Black Leghorn Club will hold its annual meet at Madison Square Garden this year. The club offers a handsome silver cup for best display, also four beautiful rosette, or elaborate special ribbons for best cock, hen, cockerel and pullet. Other specials will be announced later.

Every interested breeder of Black Leghorns should become a member of the club. The club is giving valuable service to members. Trying to give the variety greater publicity and to bring out larger exhibits at the shows.

The membership dues are but \$1. This includes initiation fee. Also entitles member to compete for the cups and special ribbons which the club offers. — Albert Brust, Jr., 822 Harrison Ave., Scranton, Pa.

Buff Rock Club.

Jos. H. Hertz, Hanover, Pa., the newly elected secretary-treasurer of the American Buff Rock Club, writes us that he is going to make every effort to bring this club to the front. With the assistance of the president, C. R. Baker, Abilene, Kas., and the other newly elected officers, we feel sure that much will be accomplished. Every breeder of Buff Rocks should be a member of this club. The dues are only \$1 per year. Join the club and help boom your favorites. For full particulars write the secretary, Jos. H. Hertz, Hanover, Pa.

Madison Square Garden Show.

On September 26, just after we had gone to press with our October issue, we received a telegram from Chas. D. Cleveland, secretary of the Madison Square Garden Show, informing us that the thirtieth annual Garden show would be held January 24 to 28, inclusive. This is several weeks later than has been the custom of holding this show, but these dates will not conflict with any of the other large shows, and we really believe will be better than holding the show during the holiday season. For full particulars write Chas. D. Cleveland, Eatontown, N. J.

The American Buff Wyandotte Club recently elected the following officers: President, J. J. Dansro, North Clarendon, Vt.; eastern vice-president, S. A. Howland, Granville, N. Y.; western vice-president, S. A. Power, Fairfield, Iowa; central vice-president, Charles Howison, Sandwish, Ill.; southern vice-president, T. S. Hewke, Winter Park, Fla.; Canadian vice-president, Angus Johnson, Ridgetown, Ont.; secretary-treasurer, Andrew C. De Hass, Albany, N. Y. The club national meet will be held in connection with Coliseum Show, Chicago, December 3 to 8, 1918; the eastern meet at Madison Square Garden; the western meet at Minneapolis; the southern meet at Orlando, Fla., and the Canadian meet at London, Ont. Every breeder interested in Buff Wyandottes should join this club and compete for the many handsome specials to be awarded to club members this season. For full particulars address the secretary, Andrew C. De Hass, Albany, N. Y.

Oak Dale Farms Not in Competition at Coliseum.

A rumor has been circulated that Oak Dale Farms, Austin, Minn., intended to exhibit White Leghorns at the Coliseum Show, Chicago. R. J. Thomson, president of Oak Dale Farms, requests us to give publicity to the fact that they will not show White Leghorns in competition at the Coliseum Show under D. W. Young. They expect, however, to send a number of the Young S. C. White Leghorns to the show simply as an exhibit to go along with the birds of Oak Dale Farms. This exhibit will cover a floor space of 20x30 feet. This statement by Mr. Thomson should assure those who had an idea that Oak Dale Farms intended to exhibit S. C. White Leghorns under Mr. Young after purchasing his entire flock, that such is not the case.

Campbell's "Never-Wear" Judging Stick is what you need. Made of telescope brass tubing. Nicely nickeled. Special this month, \$2 each. C. A. Campbell, 1913 W. 59th St., Chicago

SHOW DATES

This list has been compiled from information received from secretaries or judges. If the dates of any poultry show in which you are interested do not appear hereunder, kindly have the secretary mail the necessary information to us and same will be published in our next issue.

ARIZONA.

Nov. 11-16, 1918. Arizona State Fair, Phoenix. A. P. A. Show. H. G. Powers, sec.

ARKANSAS.

Dec. 16-20, 1918. Carroll County Poultry & Pet Stock Assn., Eureka Springs. A. P. A. Show. J. J. Buell, Green Forest, sec.

CALIFORNIA.

Nov. 20-23, 1918. Santa Clara Valley Poultry Assn., San Jose. A. P. A. Show. Chas. R. Harker, sec.; Wm. H. Russell, judge.

Dec. 9-14, 1918. Los Angeles Poultry Assn., Los Angeles. W. H. Hocking, sec.; O. L. McCord, Harlo J. Fiske, W. S. Russell and W. M. Coats, judges.

Dec. 31-Jan. 4. San Bernardino Poultry Show, San Bernardino. California State Show. A. P. A. Show. Wm. Goucher, R. No. 2, sec.

FLORIDA.

Nov. 26-Dec. 5, 1918. Jacksonville Poultry Assn. Held in connection with Florida State Fair and Exposition, Jacksonville. A. P. A. Show. R. C. Morgan, 2209 Market St., sec.; Chas. Nixon and W. P. Woodworth, judges.

GEORGIA.

Nov. 11-16, 1918. Augusta Poultry Assn., Augusta. A. P. A. Show. R. L. Young, sec.

IDAHO.

Jan. 6-10, 1919. Idaho State Poultry & Pet Stock Assn., Boise City. A. P. A. Show. Belle Silversmith, sec.; W. M. Coats, judge.

ILLINOIS.

Nov. 18-23, 1918. Morgan Co. Poultry Assn., Jacksonville. A. P. A. Show. Jas. C. Weber, sec. D. T. Heimlich, judge.

Nov. 20-24, 1918. Madison County Poultry Assn., Collinsville. A. P. A. Show. Walter Smith, sec.; D. T. Heimlich, judge.

Nov. 27-Dec. 1, 1918. Illinois-Missouri-Kentucky Poultry Assn., Cairo. A. P. A. Show. T. D. Windrom, 826 27th St., sec.; D. T. Heimlich, judge.

Nov. 28-Dec. 1, 1918. Quincy Poultry & Pet Stock Assn., Quincy. A. P. A. Show. A. D. Smith, sec.; Johnston and Hale, judges.

Dec. 2-7, 1918. McDonough County Poultry Show, Macomb. Score Card Show. Walter R. Purdum, sec. J. C. Johnston, judge.

Dec. 3-6, 1918. Jackson County Poultry & Pet Stock Assn., Murphysboro. D. Schwaerzel, sec.

Dec. 3-8, 1918. Coliseum Poultry Show, Chicago. Theo. Hewes, Indianapolis, Ind., sec.

Dec. 9-11, 1918. Altamont Poultry Assn., Altamont. A. P. A. Show. Paul A. Munzel, sec. D. T. Heimlich, judge.

Dec. 9-14, 1918. Deatur Poultry Show, Deatur. John Stiarwait, sec.; Geo. A. Heyl and Charles McClave, judges.

Dec. 9-14, 1918. La Salle County Poultry Assn., Streator. A. P. A. Show. F. W. Breimer, sec.; J. A. Leland, judge.

Dec. 9-14, 1918. Milledgeville Poultry Assn., Milledgeville. A. P. A. Show. C. A. Straka, sec.

Dec. 9-14, 1918. Williamson County Poultry & Pet Stock Assn., Johnston City. G. W. Felts, sec.

Dec. 10-15, 1918. Plainfield, Ill., Poultry Show, Plainfield. Score Card Show. J. S. Pennington, sec. E. Tarbox and Glenn Palmer, judges.

Dec. 11-15, 1918. Jo Daviess County Poultry & Pet Stock Assn., Galena. A. P. A. Show. George Steyer, sec.; T. J. Roundtree, judge.

Dec. 27-Jan. 2. Chicago Poultry Breeders' Assn., Chicago. A. P. A. Show. D. E. Hale, 349 W. 65th St., sec.; Tucker, Leland, Dagle, Palmer, Smith, Struble, Tormohlen, judges.

Dec. 30-Jan. 3. Northern Illinois Poultry Assn., Belvidere. A. P. A. Show. Wm. W. Shaw, sec.; Chas. V. Keeler, judge.

Jan. 3-8, 1919. Illinois Poultry Breeders' Assn., Carbondale. A. P. A. Show. State Show. A. D. Smith, Quincy, sec.; McCord, Hale, Johnston, Heimlich, Leland, Heyl, judges.

Jan. 6-11, 1919—Galva-Henry Co. Poultry Assn., Galva. A. P. A. Show. Ed. Iverson, 319 S. E. 6th Ave., sec. E. M. Quay, judge.

Jan. 7-10, 1919. Buckley Poultry Assn., Buckley. A. P. A. Show. W. H. Blanken, sec.; J. C. Johnston, judge.

Jan. 20-25, 1919. Wakarusa Poultry Assn., Wakarusa. A. P. A. Show. Vern Hahn, sec. H. J. Tyrrell, judge.

United Exhibition Coop

The Best and Why



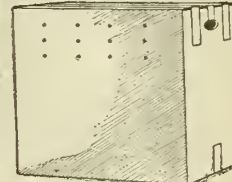
Made of heavy galvanized steel wire. All joints electric welded. As rigid and strong as if made of one piece of metal. A model in appearance. Collapsed in one second's time. Also furnished with sheet metal sides.

We make coops for Bantams, Rabbits, Chickens, Turkeys, etc. Send for catalog and prices.

UNITED STEEL & WIRE CO.

Dept. B

Battle Creek, Michigan.



COOPS

Special Sale

	Size	Doz.
No. 2	22x12x18	\$4.00
No. 3	22x12x22	4.25

Western Box & Basket Co. OMAHA, NEB.

CHAMPION LEG BAND



Aluminum, numbered to suit, with large raised figures. Postpaid 100-60c, 50-35c, 25-20c, 12-15c. Initials extra, 10c per letter per 100; 50 or less 5c. More than one initial with cut figures. Circular free, giving price on Superior and Pigeon Bands and Rabbit Ear Markers. Sample for stamp. T. CADWALLADER Box 802 Salem, Ohio



DISEASES OF POULTRY

By D. V. Salmon. 252 pages; 72 illustrations. Every poultryman needs this book. The cause, symptoms, care and remedies for each disease fowls are subject to are given. Price 50c. American Poultry Journal Pub. Co. 523 Plymouth Court, Chicago, Illinois

America's One Great Poultry Book—

the De Luxe edition of the PLYMOUTH ROCK STANDARD AND BREED BOOK. Prepared and issued by the American Poultry Ass'n. Now on the press. Accepting advance orders.

It tells about Barred, Buff, White, Columbian, Partridge, Silver Penciled and Barred Rocks

In completeness, clearness and exactness of text and instructional value and beauty of illustrations it has never been approached. Following are a few of the important topics covered:

Introduction: This includes History of Breed Standards, Nomenclature, Glossary, Official Score Card, Explanation of Scale of Points, Instructions to Judges, General Disqualifications, Cutting for Defects, Standard Measurements, Symmetry, Color Terms, etc.

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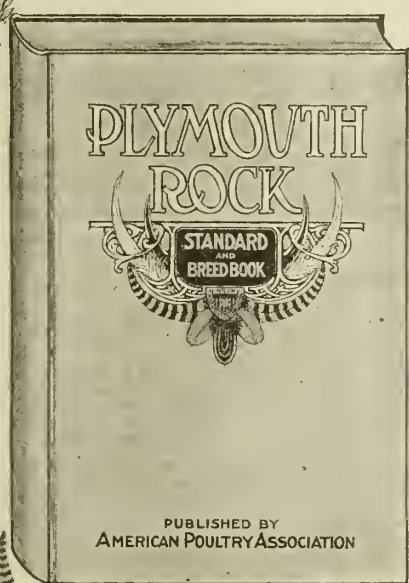
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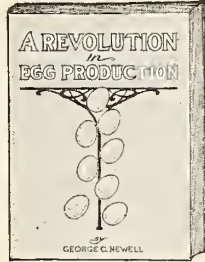
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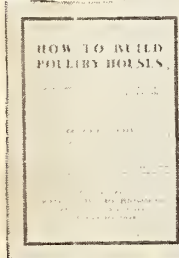


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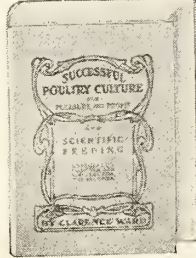
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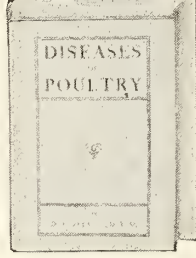
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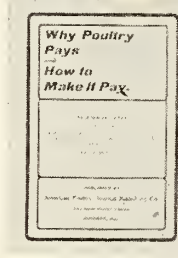
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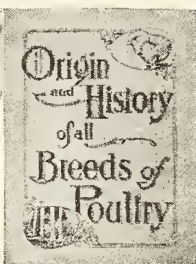


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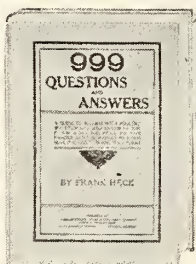
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INDIANA.

Nov. 26-Dec. 1, 1918. La Porte County Poultry Assn., La Porte. A. P. A. Show. A. F. Wegner, sec.; Chas. V. Keeler, judge.
Jan. 14-19, 1919. South Bend Poultry & Pet Stock Assn., South Bend. A. H. Studebaker, sec.; Wm. Wise, judge.
Jan. 27-Feb. 1, 1919. LaFayette Poultry Club, LaFayette. A. P. A. Show. S. J. Shaw, sec.; Frank W. Travis, judge.

IOWA.

Nov. 25-28, 1918. Iowa City Poultry Assn., Iowa City. A. P. A. Show. Ed. A. Strub, sec. Harry Atkins, judge.
Nov. 25-29, 1918. Nishna Valley Poultry Assn., Shenandoah. A. P. A. Show. R. B. Murphy, sec.; Dagle and Hale, judges.
Nov. 27-30, 1918. Boone County Poultry Assn., Boone. F. D. Wheeler, sec.; Mr. Atkins, judge.
Nov. 25-29, 1918. Eastern Iowa Poultry Fanciers' Assn., Davenport. A. P. A. Show. H. C. Goetsch, sec.; T. W. 6th St.; Johnston and Bittenbender, judges.
Nov. 27-Dec. 1, 1918. Henry County Poultry Assn., Mt. Pleasant. A. P. A. Show. R. P. Hobbs, sec.; Jos. Dagle, judge.
Dec. 2-7, 1918. Botna Valley Poultry Assn., Lewis. W. W. Trent, sec.; Jos. Dagle, judge.
Dec. 5-7, 1918. Winfield Poultry Assn., Winfield. A. P. A. Show. Allen W. Wintermeyer, sec.; Jos. Dagle, judge.
Dec. 9-13, 1918. Fremont County Poultry Assn., Sidney. A. P. A. Show. R. K. Stevens, sec.
Dec. 9-13, 1918. Gladbrook Poultry Assn., Gladbrook. A. P. A. Show. C. L. Koester, sec.; Harry Atkins, judge.
Dec. 12-16, 1918. Ottumwa Poultry Assn., Ottumwa. Vernon Reinhard, sec.
Dec. 16-19, 1918. Sixth District Poultry Assn., Oskaloosa. A. P. A. Show. Geo. Bamford, sec.; Jos. Dagle, judge.
Dec. 16-20, 1918. Southwestern Iowa Poultry Assn., Clarinda. A. P. A. Show. Mrs. James McNeerney, Coin, Ia., sec.; F. H. Shellabarger, judge.
Dec. 17-20, 1918. Maquoketa Fanciers' Assn., Maquoketa. A. P. A. Show. W. R. Knight, sec.; H. W. Atkins, judge.
Dec. 17-20, 1918. Cedar Valley Poultry Assn., Osage. A. P. A. Show. C. R. Hopkins, sec.; H. A. Bittenbender and W. H. Lapp, judges.
Dec. 18-21, 1918. Boyer Valley Poultry & Pet Stock Assn., Woodbine. A. P. A. Show. G. H. Humphrey, sec.
Dec. 18-21, 1918. North Iowa Poultry Assn., Charles City. A. P. A. Show. E. J. Blumenshine, sec.; G. D. Holden, judge.
Dec. 29-Jan. 4, 1919. Waterloo Poultry Assn., Waterloo. J. S. Leeper, sec.; Jas. A. Tucker, Royal Oak, Mich., judge.
Dec. 30-Jan. 3, 1919. Muscatine County Poultry Assn., Muscatine. A. P. A. Show. J. C. Collins, sec.; H. C. Duple, judge.
Jan. 2-8, 1919. Dubuque Poultry Assn., Dubuque. A. P. A. Show. John Ball, 230 W. Locust St., sec.; H. A. Bittenbender, judge.
Jan. 6-11, 1919. Burlington Poultry Assn., Burlington. A. P. A. Show. Walter Reppert, 1009 S. Leebrick St., sec.; Tucker, Shellabarger, Sheetz, Atkins, judges.
Jan. 13-18, 1919. Inter-State Poultry Assn., Sioux City. A. P. A. Show. E. L. Vennard, 2418 Cypress St., sec.; Harry Atkins, judge.

KANSAS.

Dec. 4-7, 1918. Harper County Poultry Breeders Assn., Anthony. Lester Combs, sec.
Dec. 9-14, 1918. Lyon County Poultry Assn., Emporia. A. P. A. Show. F. J. Horton, sec.
Dec. 10-13, 1918. Leavenworth Poultry Assn., Leavenworth. A. P. A. Show. Chas. M. Swan, sec.; A. T. Modlin and R. F. Palmer, judges.
Jan. 6-11, 1919. Kansas State Poultry Breeders' Assn., Topeka. A. P. A. Show. Thomas Owne, Route 7, sec.; Branch and Hobbs, judges.

LOUISIANA.

Dec. 3-5, 1918. Northwest Louisiana Poultry Assn., Mansfield. A. P. A. Show. J. B. Anthony, sec.; C. P. Van Winkle, judge.

MASSACHUSETTS.

Dec. 11-12, 1918. Northampton Poultry Assn., Northampton. A. P. A. Show. S. E. Hoxie, sec., 44 North Elm St., Northampton, Mass.

MICHIGAN.

Dec. 31-Jan. 2, 1919. Zeeland Poultry Assn., Zeeland. John A. Hartgerink, sec., box D.
Jan. 15-21, 1919. Michigan Poultry Breeders' Assn., Detroit. A. P. A. Show. F. M. Crowe, Gwosso, sec.; Cosh, Tormohlen and Hale, judges.

MINNESOTA.

Nov. 28-Dec. 1, 1918. Winona Co. Poultry Assn., Winona. A. G. Sklenar, sec.; Smith, Hoffman, Hess, judges.
Jan. 13-15, 1919. Chicago Co. Poultry Assn., Rush City. A. P. A. Show. Carl H. Sommer, sec.; A. C. Smith, Mrs. John Kruse, judges.
Jan. 17-20, 1919. Duluth Poultry Assn., Duluth. A. P. A. Show. Douglas C. Moore, Nemadji, Minn., sec.; Geo. D. Holden, judge.

MISSOURI.

Nov. 6-9, 1918. Cooper Co. Poultry Assn., Boonville. A. P. A. Show. N. H. Johnson, sec.; E. C. Branch, judge.
 Nov. 14-17, 1918. Franklin County Poultry Assn., Washington. A. P. A. Show. D. W. Br. J. Union, sec.; C. A. Emry, judge.
 Nov. 20-23, 1918. Concordia Poultry Show, Concordia. Otto W. Oetting, sec.; E. C. Branch, judge.
 Nov. 25-30, 1918. Heart of America Show, Kansas City. A. P. A. Show. Chas. Grunske, 1514 Elmwood Ave., sec.
 Nov. 25-30, 1918. Greene County Poultry & Pigeon Assn., Springfield. O. F. Smith, 1954 N. Jefferson St., sec.; M. L. Andrews, judge.
 Dec. 3-5, 1918. Pike County Poultry Assn., Louisiana. C. H. Winn, sec.; C. T. Patterson, judge.
 Dec. 9-7, 1918. Missouri State Poultry Show, St. Joseph. Fred Crosby, Mt. Grove, sec.; E. C. Branch, Walter Burton, D. T. Heimlich, judges.
 Dec. 11-14, 1918. Grand River Valley Poultry Assn., Trenton. A. P. A. Show. L. E. Ford, sec.; E. C. Branch, judge.
 Dec. 16-21, 1918. Johnson Co. Poultry Assn., Holden. C. H. Funk, sec.; Russell F. Palmer, judge.
 Jan. 13-18, 1919. Kansas City Poultry Show, Kansas City. A. P. A. Show. E. L. Noyes, sec.; Branch, McKlaskey and Southard, judges.

NEBRASKA.

Dec. 17-20, 1918. Fillmore County Poultry Assn., Fairmont. A. P. A. Show. L. Brown, sec.; Guy E. Schreff, judge.

NEW HAMPSHIRE.

Dec. 3-5, 1918. Lake City Poultry Assn., Laconia. R. L. Piper, sec.

NEW MEXICO.

Nov. 26-29, 1918. Bernalillo Co. Poultry & Pet Stock Assn., Albuquerque. A. P. A. Show. C. P. Hay, 236 N. High, sec.

NEW YORK.

Nov. 20-21, 1918. Cornwall Poultry Assn., Cornwall. A. P. A. Show. Seymour S. Hicks, sec.
 Jan. 24-28, 1919. Madison Square Garden Show, New York City. Chas. D. Cleveland, sec.

NORTH DAKOTA.

Jan. 22-24, 1919. Missouri Slope Poultry Assn., Bismarck. A. P. A. Show. Harry R. Clough, sec.; G. B. Holden, judge.

OHIO.

Nov. 25-30, 1918. Defiance Poultry & Pet Stock Assn., Defiance. A. P. A. Show. Geo. E. Miller, sec.; Struble, Mulinix and Colgan, judges.

Dec. 3-7, 1918. Amherst Scientific Poultry Assn., Amherst. A. P. A. Show. E. A. Little, sec.; P. A. Poertner, judge.

Dec. 4-8, 1918. Big Center Poultry & Pet Stock Assn., Enid. A. P. A. Show. S. S. Druley, sec.; W. C. Tallant, judge.

Dec. 10-14, 1918. Ashland Poultry Breeders Club, Ashland. A. P. A. Show. W. H. Yunker, sec.; F. A. Poertner, judge.

Dec. 31-Jan. 5. Sandusky Poultry Assn., Sandusky. A. P. A. Show. W. W. Taylor, sec.; D. D. Whitaker, judge.

Jan. 7-13, 1919. Dayton Fancy Feather Club, Dayton. A. P. A. Show. C. D. Forney, sec.; Zimmerer and Young, judges.

OKLAHOMA.

Dec. 16-21, 1918. Oklahoma State Poultry Federation Show, Nowata. A. P. A. Show. Fred Atherton, Waukomis, sec.; Keeler, Fisk, Stones, judges.

Dec. 30-Jan. 4. Oklahoma Co. Poultry Breeders Assn., Oklahoma City. A. P. A. Show. John W. Nicely, sec.; D. T. Heimlich, judge.

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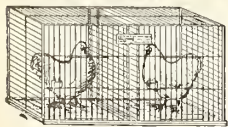
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PENNSYLVANIA.

Dec. 9-13, 1918. Tyrone Poultry Fanciers Assn., Tyrone, Pa. K. L. McClaun, sec.
Jan. 7-11, 1919. Johnstown Fanciers' Assn., Johnstown. G. Ray Johnston, sec.; J. E. Weaver and P. A. Schied, judges.
Jan. 13-18, 1919. Poultry Exhibition of Pittsburgh, Motor Square Garden, Pittsburgh, A. P. A. Show. J. Leonard Pfeuffer, sec.

Jan. 20-25, 1919. Poultry Exhibition of Pittsburgh, Motor Square Garden, Pittsburgh. A. P. A. Show. J. L. Pfeuffer, sec.

RHODE ISLAND.

Nov. 12-14, 1918. South Kingstown & Narragansett Poultry Assn., Wakefield. A. P. A. Show. Geo. E. Harvey, sec.; D. J. Lambert, judge.

Dec. 4-7, 1918. Rhode Island Poultry Assn., Providence. A. P. A. Show. Wm. I. Brown, 89 Canal St., sec.; Lambert, Allen, Cook, Benson, Glasgow, Woodward, Twombly, judges.

SOUTH CAROLINA.

Nov. 20-23, 1918. Greenville Poultry Assn., Greenville. J. M. Jordan, sec.; Chas. Nixon, judge.

SOUTH DAKOTA.

Dec. 31-Jan. 3. Northwest Poultry Assn., Watertown. A. P. A. Show. G. Paul Pitt, sec.; Geo. D. Holden, judge.

TEXAS.

Nov. 21-24, 1918. Williamson Co. Poultry Assn., Georgetown. A. P. A. Show. S. J. Paul, sec.; C. P. Van Winkle, judge.

Dec. 26-30, 1918. Great Texas State Poultry Show, Dallas. Walter Burton, Arlington, Texas, sec.

Jan. 7-11, 1919. South Plains Poultry & Pet Stock Assn., Plainview. A. P. A. Show. E. B. Miller, sec.; D. T. Heimlich, judge.

UTAH.

Jan. 13-19, 1919. Weber County Poultry Assn., Ogden. A. P. A. Show. W. W. Shaw, Box 364, sec.; Jas. A. Tucker, judge.

WASHINGTON.

Dec. 31-Jan. 4. Tacoma Poultry Assn., Tacoma. A. P. A. Show. Harry H. Collier, sec.; W. M. Coats, judge.

WEST VIRGINIA.

Jan. 13-18, 1919. Huntington Poultry & Pet Stock Assn., Huntington. A. P. A. Show. George Parent, sec.; Walter C. Young, judge.

WISCONSIN.

Nov. 27-Dec. 1, 1918. Greater Milwaukee Poultry Breeders' Assn., Milwaukee. A. P. A. Show. John F. Marvin, 2807 Wright St., sec.

Dec. 3-8, 1918. Watertown Poultry & Pet Stock Assn., Watertown. A. P. A. Show. Thos. J. Berto, sec.; George Hackett, judge.

Dec. 4-9, 1918. Western Wisconsin Poultry & Pet Stock Assn., La Crosse. A. P. A. Show. J. E. Kircheis, sec.; Roberts, Hoffman and Hess, judges.

Dec. 5-8, 1918. Fond du Lac Poultry & Pet Stock Assn., Fond du Lac. A. P. A. Show. H. L. Mabie, sec.; Geo. M. Wells, judge.

Dec. 10-13, 1918. South Central Wisconsin Poultry Assn., Albany. Cal Broughton, sec.; W. E. Stanfield, judge.

Dec. 11-15, 1918. Central Wisconsin Poultry Assn., Wausau. A. P. A. Show. Chas. W. Porath, Box 83, sec.; Jas. A. Tucker, judge.

Dec. 12-15, 1918. Manitowoc Feathered Stock Assn., Manitowoc. A. P. A. Show. A. P. Schenian, sec.; Geo. A. Wells, judge.

Dec. 13-15, 1918. Ozaukee County Poultry Assn., Cedarburg. F. W. Hilgen, sec.; Jas. E. Greenwald, judge.

Dec. 29-Jan. 1. Douglas County Poultry Assn., Superior. A. P. A. Show. John Tyson, 2125 Hammond Ave., sec.; W. H. Laabs, judge.

Jan. 8-12, 1919. Sheboygan Poultry & Pet Stock Assn., Sheboygan. Jesse Daniels, 1412 Mehrstens Ave., sec.; Swain, of Indiana, judge.

Jan. 6-10, 1919. Wisconsin Poultry Assn., Madison. A. P. A. Show. J. G. Halpin, sec.; Hackett and Greenwood, judges.

WYOMING.

Dec. 12-14, 1918. Northern Wyoming Poultry Assn., Sheridan. A. P. A. Show. W. L. Wright, sec.

UNITED WAR WORK CAMPAIGN

By Charles Dillon

Don't let anyone tell you that the Y. M. C. A. or some other of the seven organizations in the United War Work Campaign, makes your boy pay for the things he gets at the front! There's nothing to it. In the front line the "Y" sells nothing. Chocolate, fruit, soup, and cigarettes are given away for the asking, to the amounts of hundreds of thousands of dollars. In the canteens farther back tobacco, which is the largest item, is sold at the same prices as in the quartermaster's stores, the "Y" standing the transportation loss, which amounts to a very large total. The "Y," which is the

name used by soldiers everywhere for the Y. M. C. A., never has, and never will make one cent of profit on its activities.

This is just as true of the Salvation Army, the Jewish Welfare Board, the War Camp Community Service, the K. of C., American Library Association and the other war work organizations. They are not in the war for profit; they are our representatives in camps of this country, and in the other countries where our men are fighting, our representatives sent out to supply the comforts and entertainments, and the helpful companionship or advice which will make life worth while living, and bring our boys home in better condition than when they left.

General Pershing in General Order No. 33, asked the Y. M. C. A. to take charge of the canteen. He had seen the Mexican boys before and after the arrival of the "Y," he knew what that organization could do.

My father fought in the Civil War, and his father was in the Revolution. I have no record of what was said by the soldiers in '76, but I do know that my own father agreed, after a year in prison camp, that war was precisely what Sherman said. You all know the word. War is bad enough at any time, even with all the best of comforts we can provide, with the best of care and hospitals, and convalescent camps, war is bad enough. It is so bad that our men are fighting with extra determination to see to it that we shall have no more of it after the present job has been finished. If we expect our men to do a good piece of work; if we want these boys to come back to us fit and able to take up their work on the farms, in the stores, colleges, business houses or on the farms as strong or stronger than when they went away, we must respond freely whenever we are asked to give in the support of activities such as are included in the United War Work Campaign.

President Wilson decided before the Fourth Liberty Loan was launched, that all these activities of the seven organizations, the Y. M. C. A., the Y. W. C. A., the K. of C., the Jewish Welfare Board, the War Camp Community Service, the American Library Association and the Salvation Army should be consolidated under one head, and instead of going to the country frequently for money to support them, it would be better to ask for one amount.

You can save that much by keeping your motor car in the garage one day. You waste more than a dollar every week in feeding the stock, no matter how careful you are. It was figured out some years ago that the average farmer wasted enough corn in a year in feeding his livestock to pay his share of the tax required to build and maintain a good hard-surfaced highway past his farm.

I have often thought what we all need to do in rural America is to put to some wise use the money we waste. Here is a chance. Don't miss it.

H. A. D. Leggett, 24 N. Nash Place, Burlington, Vt., informs us that he has taken over the interests of H. A. D. Leggett & Co., and will carry on the Columbian Wyandotte business in his own name in the future.

Alex Nelson, Austin, Minn., has bought the entire flock of Barred Rocks of M. E. Thomson, of the same place, and will continue the sale of stock, etc. This is one of the finest flocks of Rocks in the northwest, and we predict success for Mr. Nelson in his venture.

Andrew C. De Hass, formerly located at Middletown, N. Y., has moved to Albany, N. Y. Mr. De Hass is secretary of the American Buff Wyandotte Club.

John Poorman, the man who makes 'em lay at Tinley Park, Ill., says he did more business the first six days of September than during the entire month last year. That sounds good.

A. C. Williams, the veteran fancier of Ravenna, Ohio, has disposed of his great flocks of Speckled Sussex and Buff Orpingtons to the Willinez Farm, Hoimdel, N. J. Mr. Williams parts with his birds with regret, as fancy poultry was his hobby and the winter shows his annual vacation, but the press of other business makes it impossible for him to give the poultry proper attention. The birds are in good hands, tho. as the purchasers are enthusiastic fanciers.

STORM, WIND and BUG PROOF

MORE EGGS

Big Increase in Production Possible

Poultry breeders are making big money by lighting their hen houses with "Knight" Lighting Systems. Send for full particulars and also let us tell you about our

400 CANDLE POWER LANTERN

Gives a rich mellow light, resembling daylight. Burns 15 hours on one quart of oil. No smoke, odor, wicks to trim or chimneys to clean. Just the thing for all purposes. Use it anywhere, any time. Guaranteed. Safe and reliable.

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999 QUESTIONS AND ANSWERS

124 pages. No matter what question arises, this book gives the answer in a few words. Questions for the fancier; about feeding, correct rearing of chicks, what and how to build, diseases, incubation, breeding turkeys, ducks, geese, etc. Paper, 50¢ cloth, 75¢

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623 Plymouth Court, Chicago, Illinois

You Can Speed Up the Growth of Your Chicks

Quick growth is the cheapest growth—the greatest gain on the least feed. Quick growth means health, vigor, vitality—low mortality. Quick growth means profit. Force your chicks by feeding them

Succulenta

It is a concentrated poultry food containing certain mineral elements essential to rapid, sturdy growth of chicks. It is quickly soluble in water. Simply dissolve one wafer in a quart of the birds' drinking water. If Succulenta is not entirely satisfactory, your money will be returned without a quibble.

Harvey A. Drew, Vernon, N. J., writes: "I herewith enclose an order for \$5 worth of Succulenta. A pen of 5 pullets that were Succulenta chicks won the December Cup in the National Egg Contest with 113 eggs." He says Succulenta is "a great help in raising chicks." Try Succulenta in your flock.

Succulenta will make your chicks grow and your hens lay. When ordering please give your feed dealer's name.

100 Wafers postpaid	\$.50	500 Wafers postpaid	\$1.75
250 Wafers postpaid	1.00	1000 Wafers postpaid	3.00

THE SUCCULENTA COMPANY 11 CAMPBELL STREET NEWARK, N. J.

HAPPENINGS of INTEREST
in the POULTRY WORLD

Pennsylvania State Poultrymen Enjoy the Hospitality of Frank McGrann.

Frank McGrann, of Lancaster, Pa., secretary of the Pennsylvania State Poultry Association, sent out nearly 700 invitations to poultrymen to be his guests on his farm on Saturday, August 24. Over 300 responded, and a very enjoyable afternoon was spent in listening to a number of most interesting addresses delivered by speakers of considerable reputation in the poultry industry. Prof. P. H. Stonebrum, of Philadelphia, who has recently been elected president of the association, succeeding T. F. McGrew, who resigned, was in charge of the speaker's platform.

To live up on the occasion Mr. McGrann had his own band of 26 pieces furnish the music. Mr. McGrann also prepared lunch for all who attended. One of the results of the outing was the enrollment of 64 new members and the association now has a membership of 461 and they are making a strong effort to secure 1,000 by January 1, 1919. Mr. McGrann is certainly devoting his best efforts to the poultry interest in his state.

Gene Smith, the erstwhile White Leghorn breeder of Aurora, Ill., was a caller a few days ago. Gene has made so much money at the chicken business that he sold out and is going to stop work. Look out for Crowder, Gene!

Morris Poultry Farm, of Lebanon, Ohio, has purchased the famous White Orpington flock of the Aldrich Poultry Farm, Columbus, Ohio. Combined with their already great flock, this makes one of the greatest collections of this breed in the country.

CAUTION: Any Bone Cutter claiming to be MANN'S without F. W. MANN CO. cast on its surface, is an imitation. The genuine MANN'S is made only in Millford.

Make Hens Lay

READ THE BOOK THAT TELLS HOW

Tells you how to **make hens lay**. Gives you in a nutshell the whole matter of right feeding. Read it if you want to know the **real value** of fresh, raw bone, which contains four times the egg-making ingredients that grain has. You **must** feed raw, green bone to promote **growth, development and laying**. It doubles your profits in number of eggs, fertility, strong chicks, large fowls. It is easily and quickly prepared with

MANN'S Latest Model Bone Cutter

It cuts all green bone with all adhering meat and pristle; wastes nothing and never **clogs**. Automatically adjusts cutting to your strength. Any one can turn it. We'll send you one on **10 Days' Free Trial**. **No money down**. If not satisfactory return at our expense. Send for book today.

F. W. MANN CO. Box 56, Millford, Mass.

"Golden Rod" Buff Orpingtons

are bred for heavy egg production and exhibition qualities, and their 20 years of winning at the NATIONAL SHOWS AND EGG-LAYING CONTEST proves that they are BRED RIGHT. If you have never raised poultry you owe it to yourself, and country, to do so now. If you are just beginning, you naturally want the best; if you are an old breeder, these old linebred trapped "GOLDEN RODS" will improve your flock. Remember, we are the oldest, biggest and BEST breeders in the U. S.

At the Illinois State Fair, 1918, we won 1st old pen; 1st young pn; 2nd hen; 2nd pullet; 3rd cock, and the medal for best display. Write your wants.

R. M. SEWARD R. 1 LEWISTOWN, ILL.



1st exhibition pullet at the National Barred Rock Club Meet, Chicago, January, 1918. Owned and bred the past season at Fair Oaks Farms, Box A, Waukegan, Ill.



1st and champion cockerel at the National Barred Rock Club Meet at Chicago, 1918, nearly 400 Barred Rocks competing. Owned and bred the past season at Fair Oaks Farms, Box A, Waukegan, Ill.

PRODUCING WINTER EGGS IN WAR TIME.

Special Bulletin to the Poultry Publications Prepared by Animal Husbandry Division, U. S. Department of Agriculture.

EVERY American hen six months old or over should lay in the next six months not less than sixty eggs. Every American poultry keeper owes it to his country, to himself, and to the hen to get those eggs. Hens that cannot produce to that standard should not be kept. Poultry keepers who cannot reach it with ordinary good stock should quit and stop using valuable feed and time to little purpose. But no one should admit that he cannot reach it until he is sure that he has failed after doing his part intelligently and conscientiously, and no one who faithfully follows the instructions in this article will fail to reach the very moderate standard of production demanded.

Two widely different popular ideas about the

control of egg production are responsible for most of the failures to get the right view of the subject. From old times those whose efforts to make hens lay were not satisfactory have maintained that the control of egg production was beyond human skill—that hens would not regularly and reliably respond to treatment which should result in good egg production. In recent years this view has been partly displaced by the idea that egg production is regulated by some special factor—as, heredity, balanced rations, or some favorable peculiarity of location, or of the type of house used.

The first view is entirely wrong. The law of cause and effect holds in egg production as elsewhere. The other view is partly right. Heredity, environment, and feed influence egg production; but it is still, on the whole, an erroneous view and misleading, because egg production depends not upon any one thing but upon the favorable conjunction of all the factors entering into it.

The uncertainty of results in the management of laying hens comes from the difficulty of making and maintaining the necessary combination. The requirements of egg production, and particularly of winter production, are brought out clearly, and their distinct im-

portance and mutual relations are emphasized in a classification which resolves them into eight essentials: (1) suitable stock; (2) comfortable quarters; (3) kind treatment; (4) regular attention; (5) abundant water; (6) wholesome feed; (7) liberal rations; (8) congenial exercise.

Suitable Stock.

The stock for winter production must be—seasonably hatched, well grown, well matured, vigorous.

As a rule the good winter laying is done by pullets, for the good laying birds usually molt so late in the fall that the molt shortens production in the early part of their second winter. Hence pullets are the poultry keeper's main reliance for eggs at the season of highest prices.

Comfortable Quarters.

The poultry house should be roomy, clean, well ventilated, well lighted, yet with arrangements for light and ventilation of such construction that the house may be made snug in severe weather.

By a roomy poultry house is meant one of such dimensions and having the fixtures so placed as to give open floor space appropriate

FAIR OAKS BARRED ROCKS

We have the birds and want the breeders to realize it. We never had as good a bunch headed for the show room

—and that means a good deal when you consider that last year we had more winners at the National Barred Rock Club and Illinois Centennial Shows than all breeders in the United States combined.

1000—Head of Superior Young Stock for Sale—1000

bred from the above winners and others like them. They will give ground to no competitors this winter, no matter where they come from.

GREAT BARGAINS IN BREEDERS

300 head fine yearling old stock, including our winners, with 40 cock birds in the list. Now is the time to secure your breeders! They are lower in price now than they will be in the spring, and it is much better to put them into their new quarters in the fall, so that they will become acclimated and satisfied by breeding time. The results are much more satisfactory.

Fair Oaks Farm

P. J. Sexton, Prop.
B. E. Rogers, Gen. Mgr.

Waukegan, Illinois

to the size of the flock, and bring the roosts at the rear far enough from the front windows to keep the birds comfortable on cold nights even with the windows partly open.

A sanitary cleanliness in the poultry house is closely associated with the matter of ventilation. It is not practical to remove the manure from places occupied by poultry as frequently and thoroughly as from the quarters of the larger animals. The character of the droppings of fowls, however, is such that the normal droppings of healthy birds, where they are not accumulated in masses, may remain for quite a long time without becoming offensive or in any way being injurious to the birds. Poor ventilation, by keeping these droppings saturated with moisture, makes the presence of even small quantities objectionable; while good ventilation, by drying them quickly, makes them inoffensive until they have accumulated so much that their removal is desirable.

Modern practice in the ventilation of poultry houses is to ventilate by means of open windows and doors, in and near the front of the house, giving all the fresh air possible without exposing the birds to temperatures at which they plainly suffer from cold. The common rule for ventilation in extreme cold weather is to give ventilation enough to prevent the deposit of frost or moisture on inside walls. Where so dry a condition of the air in the house is maintained the birds are not much affected by low temperatures and by changes of temperature; they do not contract colds so easily, and they lay more steadily.

Kind Treatment.

Broadly considered, this means much more than is usually associated with the idea of kindness to animals. The poultry keeper should not only be easy in all his movements about the care of the poultry, but should take care that no one and nothing else disturbs or annoys the birds. Hens that are nervous and easily frightened should not be kept where they are regularly or frequently disturbed, for they will not lay well under such conditions. If nervousness and excitability is a breed characteristic, and the annoyances which occur or exist cannot be removed, the only remedy is to dispose of the stock and keep a breed of more phlegmatic temperament. Where an individual hen, or a few such hens, are easily disturbed and communicate their alarm to the flock, such hens should be taken from the flock. If the keeper has a habit which excites the flock he should correct it. He cannot afford to indulge it and try to accustom the hens to what is obviously objectionable to them.

Regular Attention.

This is the most important point in the management of laying hens. In reality it applies to, and is a part of, every detail of the care of fowls, but it deserves separate and special mention, because irregularity is the most common cause of unsatisfactory egg yields. Regular attention does not necessarily mean attention at frequent regular intervals. The times of attendance may be far apart or infrequent, as daily, or under some circumstances at even longer intervals between giving supplies of feed and water. The essential thing is that the hens' wants shall always be properly provided for in due season. In the care of live stock pampering at one time does not compensate for neglect or indifferent care at another.

Abundant Water.

Keeping the poultry supplied with water in freezing weather is one of the most troublesome tasks of poultry keeping. As far as market egg production is concerned, the problem is made much less difficult by keeping no male birds with the hens. It is consideration for the males whose long wattles, wet in drinking, are often badly frosted on cold mornings that leads many poultry keepers to defer giving water until late in the morning. The hens

WINNERS OF EVERY FIRST PRIZE PANAMA-PACIFIC EXPOSITION

Winners—Yesterday—Today—Tomorrow. Trapped for high egg production. Pure-blooded and Standard type, the highest goal in Poultrydom. At the California State Fair, Sacramento, September, 1918,

WE WON { Best Pen in the Show } All breeds and varieties
 { Best Male in the Show } competing
 { Best Female in the Show }
 Also every FIRST PRIZE in the Leghorn Class

Our exhibition birds will win for YOU in any show. We guarantee them to win. Four to six months old breeding cockerels now ready for delivery. They are typy, sturdy and will sire egg producers.

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White Rocks **COCKERELS and PULLETS**
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Also a few White Leghorn Cockerels. Write for prices. **Myron Alberstett, Davis, Ill.**

Light Brahma and Dark Cornish

Pullets and hens, \$4 up; cockerels, \$5 up. These birds are all first-class and breed second to none. Satisfaction guaranteed or money refunded.
JOHN BLANCHARD Columbus, Wisconsin

COCKS Tom Barron Strain COCKS
S. C. White Leghorn

These birds were used in my breeding pens the past season, and some are from imported hens sired by imported males. **PRICED AT \$3.50 to \$5 EACH**
 These are remarkable values for the high record stock I am offering. My pens have been averaging 60% for the past year, and many of these cocks are from 252 egg record hens. Order direct from this ad or send for catalog.
WHITE FEATHER EGG FARM A. H. GREWE, Prop., Rt. 1, DES PLAINES, ILL.

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Winners at MADISON SQUARE, CHICAGO and all prominent shows. First cockerel and first cock at Madison Square; also first hen by a customer. Four firsts at Coliseum.
 Can furnish WINNERS for ANY SHOW.
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WHITE QUILL WHITE ROCKS
Win at the Wisconsin State Fair, September 9 to 14, 1918

In an outstanding class of high-class White Rocks, my birds won 5 firsts, 1 second, 3 thirds and 1 fifth on 12 entries, which again proves that White Quill White Rocks are right among the leaders.

Cock, 3-5; Hen, 1-3; Cockerel, 1-3; Pullet, 1-2-3; Pen, old, 1st; Pen, young, 1st.
 I am ready to furnish you with anything in the line of show birds as well as high-class utility birds, and high record layers. Write your wants, please.
A. F. POLTL, Hartford, Wis.

MINORCAS Giant Single Comb BLACKS

Have again proved their superiority from coast to coast for me and my customers. Why not place your order now for the coming shows—or buy your next year's breeders. Birds bought now will more than double in value by spring.
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Size for	25	50	100	250	500
Baby Chicks	.20	.35	.50	\$1.10	\$2.00
Growing Chicks	.20	.35	.50	1.50	2.50
Leghorns	.25	.45	.75	1.85	3.25
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Origin and History of All Breeds of Poultry

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This book tells where the breeds originated, how to mate to get best results, etc. Should be in every poultryman's library. A work of art. Price \$1.00. AMERICAN POULTRY JOURNAL PUB. CO. 523 Plymouth Court Chicago, Illinois



How to Raise Chicks

128 pages, profusely illustrated. An a to z manual for everyone who keeps fowls. Written by Prince T. Woods, a man who knows how and how to teach others. Cloth bound, price 75c. American Poultry Journal Pub. Co. 523 Plymouth Court, Chicago, Illinois

should have water accessible at all times. Whether the water is liquid or frozen (ice or snow) is immaterial, provided they can get it. Supplying them with dry or slightly moistened grain when they lack water causes indigestion and is generally injurious to the birds and wasteful of the feed given them.

Wholesome Feed.

In the general shortage of the more desirable kinds and better grades of grainstuffs usually fed to poultry there is a tendency to attempt to economize by using low-priced by-products and very inferior grades of the common grains and the common by-products. Almost invariably it is a mistake to use such to the exclusion of better feeds. The safe and sure way is to start the hens laying by feeding good quality feeds, and then partially substitute the cheaper ones, regulating the amounts used by the readiness of the hens to eat the changed mixture and by the continuance of good condition and production.

This applies to all classes of feeds—grains, vegetables, and animal feeds. Sufficient supplies of the two last-named determine the wholesomeness of the diet as a whole. Maintenance of steady egg production under changing weather conditions is much more certain when the vegetable and meat feeds are adjusted to the temperature than when a uniform combination of the three classes of feeds is used continuously. A formula for combining the three, for ordinary winter weather, is to reduce the meat and increase the vegetables in warm winter weather, and reduce the vegetables and increase the meat in extreme cold weather. This adjusts the "balance" of the ration to the temperature conditions and helps to steady production and at the same time keep the hens in good condition.

Liberal Rations.

To lay well, hens must be fed well. While it is probably true that the very best results in egg production can be obtained by a system of "hand feeding" which gives the birds just what they will eat up quickly and clean at one time, the adoption of that principle in feeding calls for the giving of feed from three to five times daily, according to circumstances and the season. The best results are obtained when there is not more than three hours between feeds. Such a system demands too much of the poultry keeper. Economy of his time and energy without waste of feeds is secured when the feed is kept by the hens at all times under conditions that prevent waste. Dry feeding, in hoppers, of at least half of the ground grains given, and the feeding of whole and cracked grains in litter accomplish this.

Congenial Exercise.

The natural and favorite exercise of hens is scratching for feed. They are not, however, inclined to scratch much when no feed rewards their efforts. Feeding the whole and cracked grain in litter deep enough to conceal the grain as thrown into it furnishes just the right condition to stimulate exercise by liberal feeding without waste and for congenial exercise that keeps hens fit without carrying exercise so far that it uses energy from feed that ought to be producing eggs.

Considering winter egg production only, exercise is not absolutely essential. Much good winter laying has been done by flocks with very little exercise. But such flocks do not usually lay as well the rest of the year, and if management is wrong at some other point they are very apt to have more than their due proportion of deaths toward the end of winter.

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACT OF CONGRESS OF AUGUST 24, 1912,

OF AMERICAN POULTRY JOURNAL PUB. CO., published monthly, at Chicago, Illinois, for October 4, 1918.

State of Illinois, County of Cook, ss.

Before me, a Notary Public, in and for the State and county aforesaid, personally appeared James W. Bell, who, having been duly sworn according to law, deposes and says that he is the Editor of the AMERICAN POULTRY JOURNAL, and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, embodied in section 443, Postal Laws and Regulations, printed on the reverse of this form, to-wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are:

Publisher—AMERICAN POULTRY JOURNAL PUB. CO., 523 Plymouth Court, Chicago, Ill.

Editor—James W. Bell, 523 Plymouth Court, Chicago, Ill.

Managing Editor—Dr. Prince T. Woods, Silver Lake, Plymouth Co., Mass.

Business Manager—James W. Bell, 523 Plymouth Court, Chicago, Ill.

2. That the owners are: (Give names and addresses of individual owners, or if a corporation, give its name and the names and addresses of stockholders owning or holding 1 per cent or more of the total amount of stock.)

James W. Bell, 523 Plymouth Court, Chicago, Ill.

Henry G. Eisert, 523 Plymouth Court, Chicago, Ill.

H. M. Bell, Congress Park, Ill.

E. M. Eisert, 1455 Balmoral Ave., Chicago, Ill.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.)—None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting; is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

5. That the average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the six months preceding the date shown above is — (This information is required from daily publications only.)

JAS. W. BELL,

Business Manager.

Sworn to and subscribed before me this fourth day of October, 1918.

(SEAL) ALICE A. SHEHAN,

Notary Public.

(My commission expires June 20, 1920.)

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The incubator of common sense, not of empty phrases. The one and only incubator that stands absolutely in a class by itself, owing to its unique and exclusive features. The Schwalge will fill your present and future needs, as you may start with a 300 or 600-egg machine, and enlarge to a mammoth machine as your business increases. Additional sections easily added in two minutes.

Two types to start with—300-egg size and 600-egg size. All equipped with full flame vapor oil heater. Clean, reliable, no odor. Each egg chamber containing 150 eggs can be run as a separate unit. The Schwalge is used and endorsed by hundreds of the most successful poultry men.

To appreciate the true value of the Schwalge Sectional Incubator you should send for illustrated catalog, which is free for the asking.

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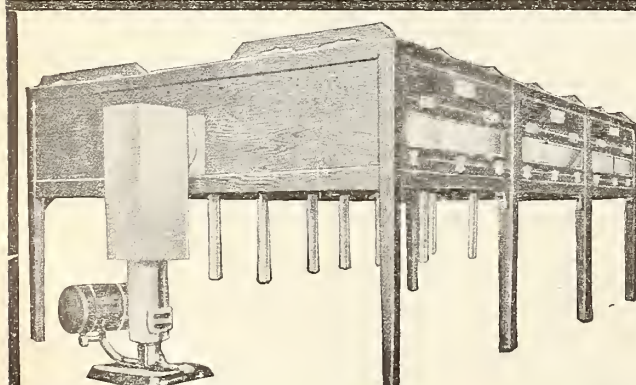
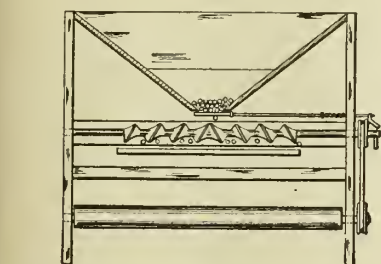
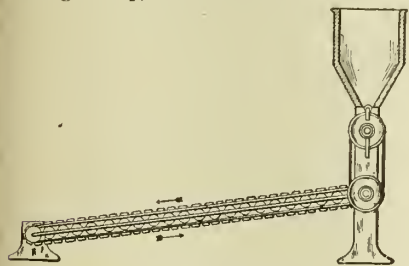


Illustration shows the individual egg chambers of 150-egg capacity each, which can be run as separate units. With this machine you can hatch Chicks, Ducks and Geese, all at the same time, each variety having its own egg chamber.

Recent Inventions for Poultrymen

By Lester B. Sargent, Patent Attorney, Washington, D.C.

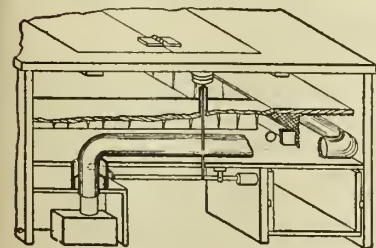
A NEW poultry feeder and exerciser, invented by Joseph H. Morrow, of Welland, Ontario, Canada, has an inclined treadmill consisting of a traveling apron passing around two rollers, the upper one of which is mounted in a frame to which the feed-holding hopper is mounted. This upper roller is belted to a second roller mounted on a shaft having a trip, which at each revolution



Poultry Feeder and Exerciser invented by J. H. Morrow, Welland, Ontario, Can. Patent No. 1,268,869.

of the roller moves a shutter carrying rod to a position to release feed from the hopper, which thereupon falls down on the treadmill. The feed entices the poultry to continue operating the treadmill and take more exercise than under ordinary feeding conditions. Patent 1,268,869.

A brooder invented by George Knieriemen, of Atco, N. J., is partitioned into two stories, the heater being in the lower story, with the heating pipe ex-

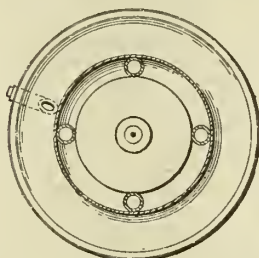
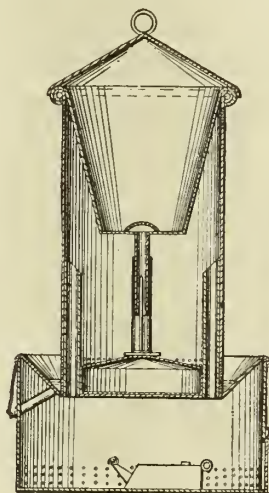


Brooder invented by George Knieriemen, Atco, N. J. Patent No. 1,268,853.

tending around one end and one side of the upper story of the brooder, where it is partitioned off from the brooding

compartment by wire netting and a curtain. The temperature is regulated by a thermostat. The arrangement of the heating pipe is designed to distribute the warmth with uniformity and to prevent crowding of the chicks. Patent 1,268,853.

A poultry drinking fountain, invented by Elzeard O. Sourcy, of Rush City, Minn., designed especially for cold climates, has heater in a lower compartment under the drinking trough. The main tank of the fountain is in its upper portion. A drain pipe opening out of the trough provides a convenient means for cleaning out the trough without lifting the entire fountain. Patent 1,269,874.



Poultry Drinking Fountain invented by Elzeard O. Sourcy, Rush City, Minn. Patent No. 1,269,874.

LISTEN !!

Eggs are Life Savers and Growth Promoters — Eat More Eggs — Why?

EGGS, milk and leafy vegetables are known as protective foods. They are protective foods because they correct the faulty composition of seeds and tubers.

A SURPRISING thing is that young animals fed only on wheat, oats, barley, corn or other seeds fail to grow.

THE diet will be inadequate if a half dozen kinds of grain or their products, together with peas or beans and potatoes, even when supplemented with moderate amounts of leafy vegetables, unless eggs and milk are used daily.

EGG yolk is about fifty percent fat. When you eat eggs you are eating something that will stay in your stomach longer than milk, or you do not get hungry so quickly. There are growth promoting properties in egg fat and milk fat that are absolutely essential. They are not in vegetable fats or oils, nor are beef or pork fats a substitute.

GROWTH and health are of prime importance to the people of this country. During the period of the war and for some time after, every citizen of this country should do his or her best. The protective foods of growth and health are found in eggs.

GREAT nations eat eggs, milk and leafy vegetables. The price of these foods is of minor consideration. They promote growth, and increase your ability to withstand disease. They are the basis of nutrition.

SHALL we fail to do our duty to our country? If we stint our children and ourselves of these protective foods we cannot expect to do our best, nor can we expect to avoid serious diseases. At least eat an egg a day.

Canada is boasting for increased consumption of eggs. The above is reproduced from the October Canadian Poultry Review. Pass it along to your local paper.



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We breed "top notchers" and they have type, color and vigor. Choice Show Birds, Cockerels and Pullets at reasonable prices. Send for catalog. It is worth your while.

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Made like a suitcase; best coop in U. S. today

Single size.....\$1.40 each

Pens..... 2.25 each

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S. C. Brown Leghorn Cockerels and Pullets

Bred from my Chicago, Indianapolis, Columbus and Milwaukee winners, at prices ranging from \$5 for choice breeders to \$35 for birds fit to win at any show, no matter how hot the competition may be. Also a large flock of pullets bred from heavy layers at \$2 each or \$175 per 100. Write for mating list.

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American Poultry Journal reaches all the buyers worth reaching



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"There's the book, John, that helped me double my poultry profits last year. It was written by a Government Expert and tells all about the feeding secrets of famous poultrymen. Why, last winter when you and the other fellows weren't getting any eggs—that book showed me how to feed my hens so that every one of them laid an egg a day. And eggs were selling for 75c a dozen then. That book tells you why

DARLINGS MEAT CRISPS
MAKE EGGS—MAKE MEAT

and will help you make a bigger profit by putting your poultry on a paying basis. You know it takes protein to make eggs, and protein to make your little chicks grow fast. DARLING'S MEAT CRISPS are the best and cheapest kind of high grade digestible protein you can buy. Just add a little to your scratch feed or mash and watch your hens 'shell out the eggs' and your little fellows grow big and fast.

"Take my advice, John, and send for that book now. YOU'LL find it the most valuable book you ever had on poultry. You get it FREE and POSTPAID. Better send a postal for it today to

Darling & Company, Dept. 10 U.S. Yards, Chicago



A Goose Tale.

By V. L. RINGLE, Omaha, Neb.

Noticed in your columns some little time ago the query of a party regarding whether goose eggs could be successfully hatched in incubators, and the reply thereto that efforts along that line were not generally a success. Thought it might be of some interest to relate a little experiment made by myself during the last hatching season with goose eggs.

Have hatched a great many chickens, but never had tackled goose, duck or turkey eggs, so thinking that a nice fat goose might not come in amiss about Thanksgiving time, purchased three Toulouse goose eggs and placed them in a machine containing hens' eggs. This, too, according to all incubator authorities, is radically wrong, as they insist the egg being larger brings the surface of the goose egg too high in the chamber and subjects it to a higher heat than should be used. This is true, but I placed the three eggs in the extreme corner of the machine, and kept them there for the three weeks that this machine ran and then transferred them to a machine which would hatch in one week's time, and at the expiration of the four weeks, in spite of all the adversities suffered by these three eggs in being hatched with hens' eggs and transferred from one machine to another, three little yellow heads poked thru the shells and I made a 100 percent hatch. Immediately remarked that if such was the usual course with goose eggs, would much prefer hatching them than hens' eggs; while I have heard of lots of 100 percent hatches, have never been fortunate enough to procure that good an average, in fact am well satisfied with a percentage quite a little less than that.

Believe more people would raise a goose or two if they realized how easy they are to take care of, especially back-yard poultry raisers or people with just a small yard, as all the goose needs is plenty of grass and water. I tie mine by one leg with a piece of cord about ten feet long and move from place to place every day, and they certainly make good lawn mowers and the growth they make is surely surprising, with no feed but the lawn grass. Will not feed any grain until a few weeks before they are to be eaten, so in these days of high cost of feed think they are quite a conservation.

Contrary to the opinion so many people have regarding geese must have water to swim in, they do very nicely if they have a pan that they can drink from, and I use a flat, wide pan that they occasionally get in and flop around a little, but as to having a pond, it is entirely unnecessary for a small number.

Now, this experiment of mine may have been an accident or the exception we are told of to every rule, but all in all I felt well satisfied with the result.

Poultry Publishers' Association Service.

We do not live to ourselves alone, but we are parts of a Great Whole and, being parts of this Great Whole, we are in nature identical. Hence what injures one of us injures all of us and what helps one helps all. This is the fundamental principle that governs all successful organizations, and it is upon this foundation that the poultry publishers at a meeting in the city of Cleveland, Ohio, August 11, 1916, formed their present organization, called the Poultry Publishers' Association. Up to this time they were fully convinced that "in union there is strength," but did not apply the

Single Comb Rhode Island Reds

Mittendorff Strain. Our strain of Single Comb Reds contains the blood of the best strains of Reds in America, and have size, shape and color, combined with heavy laying qualities. WINNERS at Chicago, Peoria and Quincy. Stock for sale at all times. Satisfaction guaranteed or money refunded.

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We have a choice lot of Cocks, Hens, Cockerels and Pullets for sale at prices that are right. Send for catalog and tell us what you want.

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1896 WILLIAMS WHITE WYANDOTTES 1918

CHAMPIONS OF 1916-17-18

At Hagerstown 1916 and the last two shows at Madison Square Garden, I won first prize on 26, and 2nd on 3, out of a possible 32 first prize birds. I bred and raised every bird I exhibited. If you want quality, who can furnish better? Send for catalog and prices to the White Wyandotte specialist.

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CARBO STEEL POSTS UNIT cheapest, most durable, SYSTEM sanitary poultry fences.



Bolt together for rigid corner, gate or end posts. Use units singly for line posts or Carbo Drive Posts. First cost of post less than wood. Made any height. Write for Booklet Today.

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My Silver Campines at the Coliseum, Chicago For Six Years Sweepstakes Champions



My flock is the result of careful breeding from the best foundation blood imported from England and Belgium. In competition with the world's foremost Campine breeders, they have consistently won the highest honors. This fall—the fall of 1918—I have the finest flock of trap-nested, exhibition and high egg-laying Campines in my poultry history.

If you wish a pen or trio of these marvelous layers of large white eggs, write me, as my prices are reasonable. If you wish exhibition stock for any show in the country, bar none, tell me your wants, and I will guarantee to supply your needs.



FRANK E. HERING

Desk B

SOUTH BEND, INDIANA

knowledge. No doubt there was some fear, for once before it had been "tried out" and for some reason failed. Thanks for the second endeavor, for it has succeeded. In other words, the first attempt really was not a failure, but the process of taking the sap out of a new scheme or business venture. There is a saying, "The greatest among us is he that serves." Those who try to get everything and give nothing, soon get nothing. Giving means not only the bestowing of money and food, etc., but it means far more than that.

"Not what we give, but what we share,
For the gift without the giver is bare;
Who gives himself with his alms, feeds three,
Himself, his hungry neighbor and me."

Our first obligation is service to our subscribers. In these war times, when our Government from necessity is asking us to economize in paper stock, it behooves us to cull reading matter the same as the breeder does his poultry. Give only the very best on all subjects—let it be practical.

Second—The unscrupulous, careless and unworthy advertisers are found out and at once discarded, thereby protecting the honest breeder. A dollar in the pocket of the dishonest advertiser was taken from the pocket of an honest one thru the advertising columns of the paper.

Third—At our last meeting held at Chicago in connection with the American Poultry Association we recommended that the news as published in the A. P. A. Bulletin be given the poultry papers, their strongest ally, who would devote sufficient space each month and thereby save this expense to the A. P. A. This was at once voted on and accepted, so from now on look for it in the poultry papers.

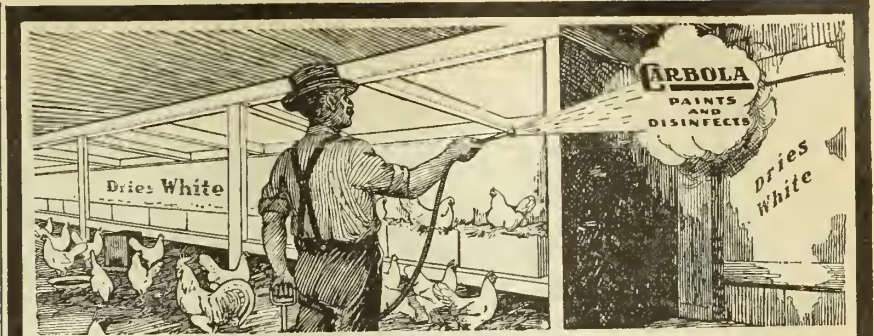
Fourth—Arrangements were made whereby more Standards will be sold to the public. We are anxious that everyone know more about Standardbred poultry. The best way to educate the public to its value is to get more of these books in the hands of the people. This is no time to keep your light under a bushel.

Fifth—We are members of the American Poultry Association, also of the National War Emergency Poultry Federation, and will publish all news submitted to the interests of Standardbred poultry.

Sixth—Our desire is to see a larger active membership in the A. P. A. and will put forth greater energy the coming year for this purpose.

The Poultry Publishers' Association is self-sustaining and its present membership as printed below we feel is deserving of the good will of all breeders, for they have proved their loyalty to your interests in the fact of their many years of service. By your help we can be of greater service.

- American Poultry Journal, Chicago, Ill.
- Everybody's Poultry Mag., Hanover, Pa.
- Inland Poultry Journal, Indianapolis, Ind.
- Poultry Culture, Kansas City, Mo.
- Poultry Item, Sellersville, Pa.
- Poultry Press, York, Pa.
- Poultry Tribune, Mt. Morris, Ill.
- Reliable Poultry Journal, Quincy, Ill.
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IN WINTERTIME

your poultry and live stock spend most of their time indoors without the benefit of fresh air and sunshine (the best of all disinfectants) and the risk of sickness—which at least means a lowered production when prices are highest—or the possible loss of the money invested in your stock is greater than at any other season, and makes it doubly important that your buildings be kept thoroughly sanitary.
Because it is so effective and "dries out" so quickly—it can be used any day the temperature for an hour or two is not below freezing—are only two of the reasons why so many farmers, poultrymen and dairymen are enthusiastic in their praise of

CARBOLA
The Disinfecting White Paint

a snow-white paint in powder form combined with a germicide, or disinfectant, that is many times stronger than pure carbolic acid. Carbola is neither poisonous nor caustic, but it kills lice, mites, fly eggs, etc., and helps prevent the germs of contagious diseases that affect poultry and livestock—roup, white diarrhea, cholera, glanders, contagious abortion, etc.—from getting a start and spreading through your flock or herd. Carbola is ready to use as soon as mixed with cold water—no waiting or straining—and it can be applied to wood, stone, brick or cement surfaces, or over whitewash, with either a brush or spray pump. One gallon covers about 200 square feet. Carbola will not blister, flake or peel off, it has no disagreeable odor to taint milk or other food products, it will not clog the sprayer, it does not spoil by standing. The dry powder is unexcelled as a lice powder.

USE IT INSTEAD OF WHITEWASH

in your poultry houses, stables, hog pens, cellars, outbuildings, etc. Make them lighter, sweet-smelling, and sanitary. Satisfaction guaranteed.

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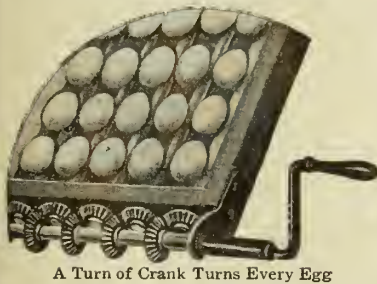
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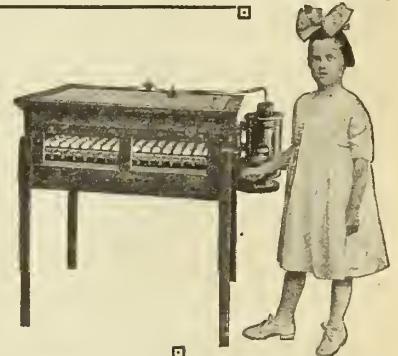
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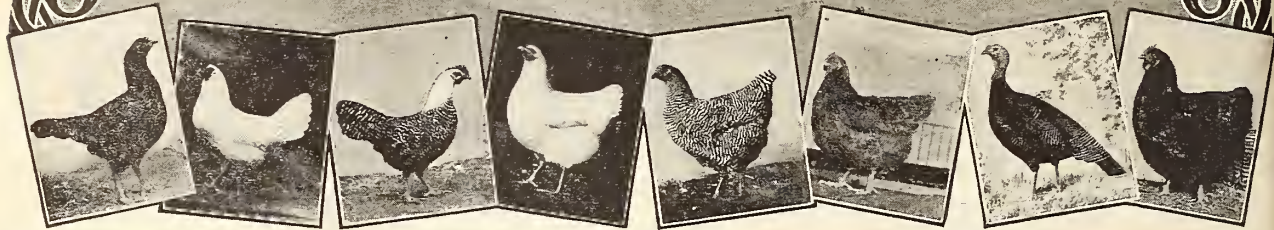
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O. M. ABBOTT, Box 10, WHITELAND, IND.

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Size 5 1/2 x 9 in., printed on a good grade of strong cardboard, with eyelets for hanging up in the poultry house. Each card contains space for a daily record for one month for each hen in a pen of 15. **50c Per Doz. 3 Doz. \$1**

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UNDER this heading ads will be inserted for seven cents per word each month for less than three months, or *six cents per word each insertion for three months or longer*. Changes in copy allowed every three months. Numbers and initials count as words. All ads will be inserted under *classified headings*. No ads accepted at less than an average of 60 cents per insertion. Terms, cash with each ad. Count the words carefully to avoid delay in publishing. Write your copy plainly, as upon this the correctness of your ad largely depends. When placing your ads remember that advertisers using Classified Ads get better returns from AMERICAN POULTRY JOURNAL than from any other poultry journal—none excepted. On writing any of these advertisers, mention AMERICAN POULTRY JOURNAL. *All copy for Classified Ads must reach us by the 17th of month preceding the date of issue.*

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GET A FINE ANCONA cockerel from my prize-winning strain; fine low-tailed birds, none better. Satisfaction guaranteed. Write A. S. Beshore, Pleasanton, Neb. 11

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SINGLE COMB ANCONAS—Fine show cockerels from prize-winning and heavy laying stock, \$10 up. Good breeding cockerels, \$3 and \$5. T. H. Holmes, River Forest, Ill. 11

S. C. ANCONA COCKERELS—Raised from Sheppard's very best pens. Great famous laying strain. Cockerels sired by Sheppard's 1st New York cock at \$7.50 and \$10. A rare opportunity to obtain wonderful birds at less than one-third their value. No females to spare. F. A. Foster, Bartlesville, Okla. 11-12

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ANCONAS EXCLUSIVELY—Choice Sheppard strain. Beautiful, dark cockerels, either comb, guaranteed satisfactory, at \$3. Breeding trios, \$7. William Siebert, Evans Mills, N. Y. 11-1

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BEAUTIFUL BLUE Andalusian cockerels, large, active birds, \$2. Rae Penniman, Dalton, Wis. 11

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BRAHMA AND GOLDEN Sebright Bantams. Best of breeding. Choice birds. Prices right. J. G. Gaines, Enosburg Falls, Vt. 11-1

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LIGHT BRAHMAS (Felch Strain), for 30 years have sold my best to Mr. Felch. Now offer from son and grandsons of Mollie Wellington from females with yearly record 180 to 222 eggs each. Write for prices. D. E. Tasker, Brattleboro, Vt. 11

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FINE LOT EARLY-HATCHED Silver Campine cockerels, reasonable. Descendants of first winners state fair. Kissel Bros., Hartford, Wis. 11

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DARK CORNISH—The kind you want for meat and eggs. Cockerels, \$5 each. Trios, \$10 (two pullets and a cockerel). Order now. L. E. Canfil, Richland, Mo. 11

MOHAWK STRAIN White and Dark Cornish. Starvation prices. Circular, stamp. C. D. Smith, Palatine, Ill. 10-11

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IF YOU WANT BIRDS that lay and pay for the American Dominiques. Choice stock for sale. W. F. Gernetzky, Columbus, Wis. 11-12

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EGGS AT HALF PRICE remainder of season; \$2 per 13, \$3.50 per 26. From Westfall's champion Silver Gray Dorkings. No reserve. More first prizes, silver cups and specials at New York, Boston and Buffalo than all competitors combined. These are the chicks that grow two pounds at two months. A few choice birds for sale. No baby chicks. Watson Westfall, Sayre, Pa. 2-17-1yr

SILVER GRAY DORKINGS—Prize-winning cockerels, \$5. Hans Madsen, Breier, N. Dak. 11-12

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SILVER SPANGLED HAMBURGS. Black Diamond strain. Highest honors at Madison Square and leading shows of America. Eggs, \$3.00 and \$5.00 per 15. If you want the best and birds that can win in any competition, you should order stock or eggs from Will L. Clark, Sullivan, Ohio. 3-16tf

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BAST'S HOUDANS—Champions of America. Fifty large egg-bred cockerels for show or breeding pen. W. F. Bast, Phillipsburg, New Jersey. 11-1

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LAKENVELDERS—EVERLASTING layers. Supremely beautiful. State wants. Hermitage Farm, Millersburg, Ohio. 10-12

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BLACK LANGSHANS—Correct type. Some stock, baby chicks, eggs. Mrs. Arthur Pickett, Bloomingdale, Ind. 11-1

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TRAPNESTED BLACK Langshans—200 to 275-egg strain. Settings, \$2 up. Catalog. Lorenz Co., Perryville, Mo. 10-12

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GOOD SCORING BIG Black Langshans, guaranteed to suit. H. Osterfors, Hedrick, Iowa. 11-1

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MY SINGLE COMB WHITE Leghorns are bred by "Hogan System." Ten years' selection combines utility and beauty. 100 breeding and exhibition cockerels, hens, pullets, \$3 up. (Reference: this Journal.) Alba Farm, Jamestown, Pa., Route 40. 10-12

EGG FARM STRAIN (Pure English) S. C. White Leghorns—Northern Iowa grown, descendants from largest Leghorns in the world. With winter-laying habit bred right to the bone. 300-egg trapnested and pedigreed cockerels now \$3, \$4 and \$5 each and up. Fred Havig, Route 2A, Osage, Iowa. 10

SINGLE COMB WHITE Leghorn cockerels—Parent stock comes direct from birds that won blue ribbons at all the best shows in the Middle West. Have won firsts at the Missouri Egg Laying Contest. \$2 each. A. L. Ackerman, Rich Hill, Mo. 10-12

S. C. WHITE LEGHORN Cockerels—\$1.25 until December, then \$1.50. Mrs. P. W. Spilman, Bloomfield, Iowa. 10-11

SINGLE COMB WHITE LEGHORNS—Several hundred yearling hens and April hatched pullets, reasonable. Satisfaction guaranteed. Miller Poultry Farm, Box T, Lancaster, Missouri. 10-12

PURE TOM BARRON Leghorn pullets. G. L. Poole, Garrettsville, O. 9-11

WHITE LEGHORN YEARLING hens, exceptional value, \$1.50 each; 12, \$15.50; 20, \$24.90. Also cockerels. Wm. Jacobs, Salem, O. 9-11

TOM BARRON'S ENGLISH Single Comb White Leghorn cockerels, pullets and yearling hens for sale, bred from stock with high egg records for generations. We trapnest every layer every day in the year. Your money back and we pay express charges both ways if they fail to satisfy you. Write for prices and description. Bear Den Poultry Farm, Wheeler, Ill. 9-11

S. C. WHITE LEGHORNS—Large sized, 295-egg record. Eggs, \$2 per 15, \$7 per 100, \$12 per 200. Chicks, 20c each. Cockerels, \$3, \$5 and \$10 each. Prepaid. Mrs. E. R. Dees, Waltonville, Ill. 8

VINEWOOD FARM SINGLE Comb White Leghorns—Pullets, cockerels and breeders. Catalogue sturdy stock. Line up for 1919 catalogue. Rose Belle Blasler, Highland Park, Ill. 11-1

FOR SALE—Four 270-egg strain Ferris White Leghorn cockerels at \$5 if taken this month. Mrs. Julius Arp, Okoboji, Iowa, Box 92. 11

PULLETS, FROM MY beautiful strain. No better layers. \$2.25 each. Cockerels \$2.50 to \$5. Saint Johnsville Poultry Farm, St. Johnsville, N. Y. 11

TOM BARRON STRAIN S. C. W. Leghorn cocks, \$3 to \$5 each; many from 252-egg record hens. Order direct from this ad, or send for catalog. A. H. Grewe, Route 1, Des Plaines, Ill. 11

SINGLE COMB WHITE Leghorns—Barron-American bred. Fine, vigorous, farm ranged cockerels. Bred from pedigreed, trapnested, heavy egg-producing parents. Prices moderate according to number. M. M. Jacobs, Fairbury, Ill. Dept. A. 11-1

COCKERELS—YOUNG STRAIN Direct. A one. Stock reasonable. D. W. Jardine, Staunton, Va. 11

WYCKOFF STRAIN—White Leghorn cockerels, \$1.50 and \$2 each. Walter Leucuo, Putnamville, Ind. 11

CHOICE FENIMORE STRAIN cockerels, \$3. Established 1909. Fenimore Poultry Yards, Mamaroneck, N. Y. 11

SINGLE COMB WHITE LEGHORNS—500 extra fine March hatched cockerels, from our exhibition and heavy-laying strain; 40 dozen choice four-months-old pullets; 40 dozen fancy yearling-hens; trios and breeding pens. Send for price list today. Alabama Leghorn Farms Company, Ensley, Alabama. 11

TOM BARRON S. C. White Leghorns—Breeding cockerels for sale, large, vigorous birds, satisfaction guaranteed. Seneca Fancy Table Egg Farm, Tiffin, Ohio. 11-1

SINGLE COMB WHITE LEGHORNS—Young's. Lowtailed cockerels, pullets, \$3. Meadow Farm, Coulterville, Ill. 11

PURE BARRON LEGHORN cockerels with pedigrees from 240 to 284. Large early hatched birds, full of life and vitality. We have several hundred to choose from and will guarantee to please you. Riverside Poultry Farm, Cambridge Springs, Pa. 11-1

AUSTRALIAN LEGHORNS—World's record layers for thirty years. The White Ranch, direct importers, South Haven, Mich. 11-1

R. C. WHITE LEGHORNS

R. C. W. LEGHORNS—Cockerels, Elephant strain, good color. Winners \$2 up. Mrs. Rose Tabler, Weldon, Ia. 11

FANCY ROSE COMB White Leghorn cocks and cockerels for sale. Bred from my Chicago Coliseum winners. George Rigler, Bensport, Iowa. 11-1

S. C. BROWN LEGHORNS

WERNER'S QUALITY S. C. Brown Leghorns—200 April chicks for sale. Write for prices. Wm. B. Werner, Box K, Winamac, Ind. 11-1

FOR SALE—SINGLE Comb Brown Leghorn cockerels, \$2 each. N. W. Pyle, Carmel, Ill. 11

S. C. BROWN LEGHORNS—Choice breeding and exhibition stock for sale. Winners and layers; both lines. Geo. L. Hornbrook, Upland Poultry Farm, Decatur, Ill. 11-2

FIRST SINGLE COMB Brown Leghorn cockerel, Illinois State Fair, 1918. 200 hens, 16 dozen. Cocks, cockerels, \$1.50; red color, \$3; 4-5 point comb, \$5. Murl Edwards, Rockbridge, Ill. 10-12

R. C. BROWN LEGHORNS

KULP'S 242 STRAIN Rose Comb Brown Leghorns—May cockerels, \$2, \$3 and \$5 each. Mrs. M. N. Smith, Packwood, Iowa. 10-12

NEW VARIETY BROWN LEGHORN

NEW VARIETY OF BROWN Leghorns—Very beautiful. Will sell entire stock very reasonable, with all originating rights. If anyone wants to develop this new breed address I. H. Murray, 11337 Longwood Drive, Chicago, Ill. 11

BUFF LEGHORNS

PITT'S SINGLE COMB Buff Leghorns—Won in six big shows this fall. Stock from Madison Square Garden winners. W. W. Pitts, Lewisburg, Tenn. 11-1

EGG-BRED BUFF LEGHORNS—Single Comb. Winners best shows. Laying contest leaders. Bargain breeders now. Lea Munger, De Kalb, Ill. 11

S. C. BUFF LEGHORNS—27 years. 25 choice cockerels for sale, also trios, pairs, pens. Quality and price right. Jno. Quincy Dawson, Coshocton, Ohio. 9-3

BUSINESS BEAUTY STRAIN—Genuine business beauties. Hen-hatched from large white eggs from mature, hardy, well marked, prolific layers. Outbred, pedigreed, farm raised. Both combs. Catalog. Joseph Benedict, Chevy Chase, Maryland. 10-18tf

S. C. BUFF LEGHORN cockerels—Heavily strain; \$3. Neva Smith, Fisher, Ill. 10-11

SINGLE COMB BUFF LEGHORNS—Pullets, year-old hens, cockerels. Write for circular of prices. Eli Risenberger, Box 26, Tiffin, Ohio. 10-12

ROSE COMB BUFF LEGHORNS—Stock and eggs. Catalog. Howard J. Fisk, Falconer, N. Y. 3-18-1yr

BLACK LEGHORNS

S. C. BLACK LEGHORN cockerels—Fancy stock, \$2 to \$5. Ferry Vail, Garden Grove, Pa. 11

BLACK LEGHORN COCKERELS for sale—Backed up by seventeen years of careful breeding. Milo L. Myers, Marysville, Ohio. 11-1

BLACK LEGHORNS of quality winners at leading shows, stock for sale. Scott Long, Carey, Ohio. 11

BUFF MINORCAS

BUFF MINORCA COCKERELS—\$2.50 apiece. Do not wait until spring and be disappointed on account of being sold out, as you were this spring. Fred P. Dietz, Grocer, Mt. Vernon, Ind. 10-12

196-238-EGG exhibition Buff Minorcas. Cockerels. Eggs in season. W. R. Mortimer, Los Gatos, California. 11

BUFF MINORCAS—See display ad page 893. Walhalla Poultry Farm. 3-18-1tf

WHITE MINORCAS

SINGLE COMB WHITE Minorca cockerels—19 years a White Minorca breeder. State what you want. Harry Leibold, Delaware, Ohio. 10-12

BLACK MINORCAS

ROSE COMB BLACK Minorca cockerels from hens with high egg records. Geo. Konrad, Waukesha, Wis. 11-1

SPLENDID BLACK MINORCA cockerels cheap. Also few hens. Cocks, vigorous, large egg strain. Henry Wallis, Delavan, Wis. 9-11

ROSE COMB BLACK Minorcas. Exhibition and utility stock, and eggs for hatching at all times. Send for our large catalog. G. A. Clark, Seymour, Ind. 6-17-1yr

WINNERS AT PANAMA and official 200-egg strain, National egg-laying contest, Missouri, up to 272. H. A. Kutzt, Burlington, Wis. 2-18-1yr

WHITE MINORCAS

ROSE AND SINGLE COMB White Minorcas—America's best. A few choice cockerels and pullets. Thos. Brogden, Rush Lake, Wis. 11-1

SINGLE COMB WHITE Minorca cockerels—Extra quality, \$3 each. Fred C. Hacke, Lone Tree, Iowa. 11-1

RHODE ISLAND WHITES

THE GREAT RHODE ISLAND White farm. Eggs, \$1 per 15. Rose and Single Comb stock, \$6 per trio; \$10 per pen. Catalog free. Henry Eichelmann, Waterloo, Ill. 9-11

WHITE QUEEN STRAIN Rhode Island Whites, both combs. Form bred, heavy layers, hens, cocks, pullets and cockerels. Show and utility birds; describe your wants. Would sell entire flock. Fred Havig, Route 2A, Osage, Iowa. 11

RHODE ISLAND REDS

R. I. REDS—Both combs. Blue Ribbon winners, good breeding cockerels and pullets, \$5; utility \$3. A few fine breeding pens at \$25. Satisfaction guaranteed. Rodman Case, R. 1, Troy, Pa. 11

SINGLE COMB RHODE ISLAND Red cockerels for sale. Scranton strain, \$2.50 to \$5 each. Mrs. F. M. Robinson, Metamora, Ill. 11-1

ONE HUNDRED MARCH and April hatched S. C. Red cockerels, weighing 5 to 7 pounds, \$3 and \$4. Satisfaction guaranteed. Mrs. J. S. Mitchell, Mason City, Ill. Box 152. 11-12

DARK RED SINGLE COMB Reds, heavy boned, good scoring. Guaranteed satisfactory. Lela Osterfors, Hedrick, Iowa. 11-1

SPECIAL NOVEMBER SALE of Perry's Single Comb Red cockerels—200 quality Reds at \$3 each. Order from this ad. Write for prices on real high-class breeding stock. Freed Perry, Ottawa, Ill. 11

SINGLE COMB REDS—Big, dark red, early hatched. Heavy laying strain. Show or utility. Pullets and cockerels, \$2.50 each and up. Scarborough, Hillsboro, O. 11

S. C. REDS—100 March and April pullets, many laying; \$3 each. See ad page 865. Sunnyfields Farm, Wallingford, Conn. 10-12

RHODE ISLAND REDS—Excellent cockerels from trapnested stock, 200-egg per year strain. B. E. Guither, Walnut, Ill. 10-11

NO BETTER REDS anywhere than our breed. The best blood of the country was secured for the foundation of my flock, and it has been improved by careful selection and scientific breeding. They are the kind of Reds that bring joy to the fancier's heart and dollars to his pocket. They are bred red and stay red and will win at any show. I have a fine lot of cockerels and pullets for sale that combine exceptional Standard qualities with heavy egg-laying ability. If you are looking for birds that you will not be ashamed to show anywhere, at prices within reach of the ordinary man's pocketbook, sit down right now and write me a letter, telling me your wants. I will please you or you can return the stock and get your money back. Could anything be fairer? Gerid A. Thomson, Box A, Austin, Minn. 11

FULL GROWN S. C. Red that are red, pullets \$4 to \$10, mated pens \$20 up. Yearlings \$3. Pullet mating Barred Rocks. Pullets and yearlings \$3 up. Blue Andalusians, 6 hens and good 7 1/2 lb. cock at \$20; 4 pullets and cockerels at \$12. Thomas C. Cuddahy, 89 Maple Street, Manchester, New Hampshire. 11

SINGLE COMB REDS—Large, dark red cockerels and pullets of high quality. Henry R. Snapp, Greeneville, Tenn. 10-12

BLACK ORPINGTONS

BLACK ORPINGTONS — Old and young stock. Males and females. Fred Seas, Orrville, Ohio. 11

BLUE ORPINGTONS

BLUE ORPINGTON STOCK for sale—Pullets \$5 and cockerels \$10. Jess Jessen, Strawberry Point, Iowa. 11-1

BUFF ORPINGTONS

BUFF ORPINGTON early hatched pullets, \$3 each. Majestic strain. F. A. Kaup, Glen Ellyn, Ill. 11-1

FINE LARGE BUFF Orpington cockerels from prize winners, still \$2. Rae Penniman, Dalton, Wis. 11

WHITE ORPINGTONS

THE BEST WHITE ORPINGTONS—See ad page 895. Sunnynfields Farm, Wallingford, Conn. 10-12

PARKER'S TRAPNESTED Pedigreed 200-egg White Orpingtons. 300 hens, pullets and cockerels; also 319-egg cock. Catalog. J. S. Parker, Route 4-J, Plain City, Ohio. 10-12

SPLENDID WHITE ORPINGTON cockerels. Show or utility. 232-egg strain. March hatch. George Layman, Greenville, Ill. 9-11

ORPINGTONS—SEVERAL VARIETIES

ORPINGTONS BUFF, WHITE and Black—Cheap. Bare Poultry Co., Box 909, Hampton, Iowa. 11-1

PEN BLACK ORPINGTONS, \$15; six White Orpington hens, \$15; White Orpington cockerels, \$3. Homer, Red Carneaus pigeons, \$1 pair. Moon, 11220 Talman Ave., Chicago. 11

BARRED PLYMOUTH ROCKS

E. B. THOMPSON'S "RINGLETS" direct. Extra choice cockerels, females; big, vigorous stock, bred from winners; best New York winning blood from proven breeders. Have spared neither pains nor money. William Huckle, Waverly, N. Y. 11-1

BRED-TO-LAY BARRED ROCKS—Parks noted strain. Fine, big cockerels, \$5 each, 3 for \$12. Hens and pullets, same price. Satisfaction guaranteed or money back. Mallard ducks, \$4 per pair. Mrs. E. Glabe, Chatsworth, Ill. 11-1

BARRED PLYMOUTH ROCKS—Excellent cockerels, trapnested stock, 200 to 250 eggs per year. Utility only. B. E. Guither, Walnut, Ill. 10-11

BRED-TO-LAY BARRED ROCKS exclusively—Parks' strain direct. Heavy winter laying stock. Beautiful, large boned, vigorous cockerels bred from best egg-producing blood lines, which will impress the lay on their offspring, \$5, \$6 and \$7 each. W. G. Meredith, Danvers, Ill. 10-12

PARTRIDGE PLYMOUTH ROCKS

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 913. 5-15-ft

CHOICE PARTRIDGE ROCK cockerels and pullets for sale. Pullets \$2.50 up; cockerels \$3 up. Ray Finders, Ferguson, Ia. 11

WHITE PLYMOUTH ROCKS

WHITE ROCKS—High egg record pens, the winning kind. H. Bisping, Route 7, Greensburg, Penn. 11

WHITE ROCK COCKERELS—\$2, \$3 and \$5 each. F. L. Hooper, Kendallville, Ind. 11

WHITE ROCKS—Cockerels and pullets. H. J. Collman, Milan, Ohio. 11

WHITE ROCKS—Farm raised exhibition and utility stock. Southern winners. A. H. Davidson, Route 7, Ft. Worth, Texas. 10-12

NUZUM'S WHITE PLYMOUTH Rocks are good winter layers. Cockerels for sale. Monte Nuzum, Anderson, Ind. 10-12

BUFF WYANDOTTES

BUFF WYANDOTTES—Sandborn strain, wonderful winter layers, winners. Cockerels \$3, \$5; pens \$10, \$15. Ben Threlkeld, Ewing, Ill. 11-2

BUFF WYANDOTTES—World's champion exhibition; egg producers. Fifty grand cockerels; twenty from first Chicago cock and hen record nearly three hundred eggs. Sturtevant, Delavan, Wis. 11

EGG-BRED BUFF WYANDOTTES—Winners last National Club Show. Bargain breeders now. Lea Munger, De Kalb, Ill. 11

COLUMBIAN WYANDOTTES

COLUMBIAN WYANDOTTES — Madison Square Garden, Boston winners; order your cockerel from our heavy laying strain, one of our pullets at American egg-laying contest laid 170 eggs in nine months. Satisfaction guaranteed. Gilbert Poultry Farm, Whittier Road, Haverhill, Mass. 11

COLUMBIAN WYANDOTTES—Cockerels, \$2 and \$2.50. Eyer Bros., Kalida, Ohio. 11

GOLDEN WYANDOTTES

GOLDEN WYANDOTTES — Bred from state show winners. Cockerels \$3 and \$5. Pullets \$2.50. Nick Till, Independence, Iowa. 11-1

GOLDEN WYANDOTTES at reasonable prices. Write. C. C. Thomas, Sandusky, Mich. 9-11

PARTRIDGE WYANDOTTES

PARTRIDGE WYANDOTTES — Cockerels \$3; prize winners. Adolf Stoin, R. 1, Harmony, Minn. 11

PARTRIDGE WYANDOTTES—Fine cockerels, \$2.50; trio, \$7; pen, \$10. E. H. Casey, Ewing, Ill. 10-12

OWN-LAND FARM'S Partridge Rocks—Boston and New York State Fair winners 1918. Circulars. South Hammond, New York. 11-1

SILVER LACED WYANDOTTES

SILVER LACED WYANDOTTES—Limited number, fine cockerels from show winning stock. Tarbox and Breigel strain, \$3 and up. Guy Payne, R. 5, Benton, Ill. 11-1

SILVER WYANDOTTES exclusively—Best strain, nice open lacing. Choice hens and pullets, \$2 each. Satisfaction guaranteed. James Leggett, Hornsby, Ill. 11-1

WHITE WYANDOTTES

WHITE WYANDOTTES—Cockerels, hens, pullets, at \$2, \$3 and \$4 each. Show birds, \$5 each. Satisfaction guaranteed. A. J. Shannon, Route 6, Appleton, Wis. 10-12

PEARL WHITE—Stay White—White Wyandottes. Bred to lay and pay. Cockerels, pullets and hens. Single birds, pairs and pens. February hatched Barred Rocks—very fine. May hatched Reds. "Ye Quill and Apple Yards," F. Sanders, Ottawa, Ill. 11

IMPERIAL WHITE WYANDOTTES—Lay, win, weigh. Bred primarily for high production. Also Standardbred to win and produce quality. Five choice pedigreed cockerels, \$8 to \$15. Eggs in season. Dr. H. H. Clayton, Bluffton, Ind. 10-12

WHITE WYANDOTTES—Early cockerels and pullets. Beautiful form and finish. Guaranteed. Crest View Farm, Grand Chain, Ill. 10-12

WHITE WYANDOTTES—Vigorous, stay white, utility cockerels, extra large, \$3 and \$5 each. Exhibition quality for strong competition, \$10 and \$15. Purchase price and return express charges refunded if dissatisfied. J. F. Garrison, Mt. Vernon, Ill. 11

OWN-LAND FARM'S White Wyandottes (Regal-Dorcas). Hundreds satisfied customers. Circulars. South Hammond, New York. 11-1

IMPORTED, TOM BARRON White Wyandotte—Cockerels, hens, day-old chicks, Trap nested. Geo. Hynick, 322 East Grant Ave., Altoona, Pa. 11-1

WHITE WYANDOTTE STOCK—Good egg laying strain, stay white. Exhibition stock at right price. Satisfaction or money back. Write for prices. W. A. Ziegler, Mt. Victory, O. 11-1

SPECIAL OFFER OF Regal strain White Wyandottes, young and old. Lloyd Caldwell, Neoga, Ill. 11-1

WHITE WYANDOTTES — Chicago, St. Louis, Kansas City and Des Moines winners. Stock for sale. Earnest Massey, Mystic, Ia. 4-18-1 yr. 11

WYANDOTTES—SEVERAL VARIETIES

ALL VARIETIES OF WYANDOTTES—Males and females, cheap. Bare Poultry Co., Box 909, Hampton, Iowa. 11-1

50 COCKEREL PERFECTION White and Golden Wyandottes, \$3 and up. H. L. Schumacher, Buckley, Ill. 11

POLISH

TWO TO FIVE DOLLARS each—Seven varieties Polish cockerels. L. Leavitt, Smithfield, Ill. 11

SPANISH

WHITE FACED BLACK SPANISH—Winners at some of the largest shows in the country. J. R. Galloway, Elwood, Ind. 10-1

WHITE FACE BLACK SPANISH males. S. Jones, Church Creek, Maryland. 11

SPECKLED SUSSEX

SPECKLED SUSSEX COCKERELS — \$3 each. Alma Eichelmann, R. 4, Waterloo, Ill. 11-1

SEVERAL BREEDS

FOR SALE—ALDRICH strain White Orpington cockerels and Sheppard strain Ancona cockerels. Cheap for lack of winter quarters. C. C. Phelps, Green Bay, Wis. 11

COCKERELS — HALF PRICE. Single Comb White Leghorns, Single and Rose Comb Rhode Island Reds from prize winning stock. F. M. Daugherty, R. 1, Box 83, Des Moines, Ia. 11

BARGAIN SALE—In Rocks, Wyandottes, Langshans, Minorcas and Houdans. James G. Baille, Platteville, Wis. 11

IF YOU WANT GOOD S. C. Anconas and Black Minorcas, I have them. Both birds and prices are right. Clarence W. Garnhart, Stillman Valley, Ill. 11-1

THREE WHITE LEGHORN cockerels from the world record laying pen. One hen in pen laid 294 eggs. Also, only three Home-stead Silver Campine cockerels left. Geo. B. Grimshaw, Liverpool, N. Y. 10-11

DUCKS

WILD MALLARD DUCKS—20 pairs of beautiful, strong, healthy birds for sale. Fine decoys. Send postcard for photo, etc. Wm. Stangle, Box 93, Camden, Ind. 11-1

DALY'S STRAIN OF Colored Muscovy ducks. A few choice young and mature drakes for immediate delivery. Harry Daly, Maysville, Ky. 9-11

BUFF DUCKS for sale at \$2 each. Alex. J. Fux, Monroe, Mich. 11

DUCKS—ALL VARIETIES. Males and females, cheap. Bare Poultry Co., Box 909, Hampton, Iowa. 11-1

GEESE

GEESE—MAMMOTH TOULOUSE, African, White China, Embden, Buffs, Ducks—Imperial Pekins, Rouens, Indian Runners, Muscoveys, Buffs. Turkeys—Mammoth Bronze, White Holland, Bourbon Reds. Price reasonable. A. A. Ziemer, Austin, Minn. 11-2

TOULOUSE GEESE—Can handle large or small orders for these profitable birds from one of the finest flocks in the country; two years old next spring. Box 4, Fairford, Ala. 11

WHITE CHINA GEESE—\$8 per pair; \$12 per trio. Alma Eichelmann, Waterloo, Ill. 11-1

GEESE—AFRICAN, CHINA, Embden and Toulouse, cheap. Bare Poultry Co., Box 909, Hampton, Iowa. 11-1

BIG TYPE EMBDENS—First prize State Fair, 2 years. Extra large. Young ganders \$8; geese \$6; trios \$18. Satisfaction assured. H. M. Woods, Carlville, Ill. 11

NEW SEVILIAN 100 egg geese. Pure white stock. Welday, Seville, Ohio. 11-1

WHITE EMBDEN GANDERS — \$4 each. Sparling Sisters, Garden Grove, Iowa. 10-12

ALL VARIETIES OF GEESSE, bred from winners at Panama-Pacific and Madison Square Garden. All varieties of dux. Dawson Bros., Franksville, Wis. 9-1

DUCKS AND CESE

THREE PAIR LARGE EMBDEN geese, 1 pair Buff geese, \$6.50 per pair, 5 Toulouse geese, 2 ganders, \$2.25 each. Buff Orrington ducks, pens of one drake and three ducks, each \$6.50. Mrs. Glen Johnes, Sutherland, Ia. 11

TWO OLD TOULOUSE geese, one gander, \$25. Mammoth trio Pekin ducks \$15; pens \$25. A. Moritz, Rahway, N. J. 11-1

TURKEYS

AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our ad on page 913. 2-1f

BOURBON RED TURKEYS—Ours excel in size, color and markings. Tom \$7, hens \$5. Maud Coons, Queen City, Mo. 11-1

BOURBON RED TURKEYS—Winners at Detroit and Michigan State Fair. Thos. G. Callaghan, Fenton, Mich. 11-2

BAUMAN'S BEAUTIFUL BOURBONS—World's record layers, blue ribbon winners, America's largest shows. Tom (\$15-18 quality), \$10, \$12.50, if taken by Dec. 15. Exhibition pullets \$10 each, also a few high class Dark Cornish hens. Mrs. M. F. Bauman, Clayton, Ill. 11

MAMMOTH BRONZE TURKEYS—Bird Bros. "Goldbank" prize winning strain. Exceptionally fine stock. Toms \$10, \$15 and \$25; pullets \$7 and \$10. Susie Oliver, Hickman Mills, Mo. 11

BOURBON RED TURKEYS, poultry and pets. Literature and prices, 10 cents. Farnsworth Poultry Yards, Belmond, Ia. 11-1

MAMMOTH BRONZE TURKEYS—Toms \$6; hens \$5. Don Marshall, Route 8, Defiance, Ohio. 11-12

FOR SALE—BRONZE turkey toms and hens, \$10 each. Money returned if all are sold. Don't wait till express companies are burdened with Xmas. Order now and be safe. Aaron J. Felthouse, R. D. No. 2, Goshen, Ind. 11-12

MAMMOTH BRONZE TURKEYS—One-half wild blood, large and healthy. E. T. Brown, R. D. 2, Nottingham, Pa. 11

GIANT BRONZE TURKEYS—Big boned, young thoroughbreds, hardy strain. Raised 140 turkeys from 9 hens, 1917. Order early, prices less, shipping safer. N. Evalyn Ramsdell, Ionia, Mich. 11

GIANT STRAIN, WHITE Holland turkeys. Gentle, roost, lay and sit in the barn, no hunting nests. Buy from prize winning stock. Forty-pound tom, \$30. Young toms, \$15, \$20 and \$25. Henry Montgomery, Troy, Kansas. 11-1

MAMMOTH WHITE HOLLANDS—Toms hatched middle June weigh October 15, 17-19 pounds, \$10; pullets, 11-13, \$6; hens, \$8. Sire first Illinois State Fair. None better. Order quick. H. M. Woods, Carlinville, Ill. 11

AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 913. 2-15-1f

GUINEAS

PEARL GUINEAS — Young stock, \$1.25 each. Reduced prices in lots of 25 or 50 birds. John Hass, Bettendorf, Iowa. 10-11

WHITE AFRICAN GUINEAS—\$4 pair, Pearl \$3 pair. Bare Poultry Co., Box 901, Hampton, Iowa. 11-1

PIGEONS

LARGE RED CARNEAUX Pigeons, \$2 pair. Mated. Woodford Poultry Farm, Madisonville, Cincinnati, Ohio. 10-12

I OFFER GUARANTEED MATED Homers in any quantity at \$1 per pair. Beautiful White Homers, \$1.50 pair. Squab companies challenged to produce better stock at twice this price. Get my prices on Runts, Carneaux, Maltese hens and save dollars. Squab Manual, 25c. Charles A. Gilbert, 2210 Almond St., Philadelphia, Pa. 7

WANTED — 5,000 HOMER or common pigeons. Pay at least 25c pair. Live Rabbits wanted. Going Light, Canker Cure 25c. D. Gilbert, 1128 Palmer St., Philadelphia, Pa. 8

A FEW HOMERS, Dragons, Carneaux. George Porter, LaSalle, Ill. 11

RABBITS AND HARES

PEDIGREED BELGIAN HARES, \$2 up. 64-page book on rabbits, 25c. Woodford Poultry Farm, Madisonville, Cincinnati, 10-12

BELGIAN HARES. S. Jones, Church Creek, Maryland. 11

BELGIAN HARES—Also Dark and White Cornish. Stamp for prices or send fifteen cents for fine hare booklet and prices. W. B. Grinyer, Eleroy, Ill. 10-11

BELGIAN HARES AND Mammoth Flemish Giants. Booklet on Hares, 10c. Canada's Rabbitry, 258 York, Denver, Colo 10-11

BELGIAN HARES—Get our quotations. Hare book and catalog, five stamps. Failing Poultry Farm, Lafargeville, New York. 9-11

RAISE BELGIAN HARES for me—I furnish all grades of stock at from \$2.50 up, and buy all you raise at 30 to 60 cents per pound, live weight. My famous instruction booklet and full particulars, 10c. None free. Frank G. Cross, 6433 Ridge, St. Louis, Mo. 11-17-1f

NEW ZEALAND BUCKS for sale—Utility stock. Seven months old \$3. 4 months \$2.50. Glenn A. Wilson, Sandwich, Ill. 11

BELGIAN HARES—Registered and pedigreed. We also want to buy young hares from our stock; will pay 75c a pound. See the Filder File-O and Single Unit System for housing rabbits; plans of these sanitary, self-cleaning rabbit hutches 35c. Norwood Rabbitry, Dept. 2, Norwood, Ohio. 11

TWENTY RUFUS RED Utility Belgian Does, heavy breeding stock, 10 months old, good color, \$3 each. Dangers & Co., Sleepy Eye, Minn. 11

PHEASANTS

GOLDEN PHEASANTS for sale—Young cocks \$3 each. Hens one and two years old \$5 each. Fred Guenther, 1538 Washington Ave., Piqua, O. 11

ORNAMENTAL

IN VIEW OF THE FACT that I am now serving my country in the Army and have no time to give to the care or supervision of my birds, I have decided to dispose of my entire stock of ornamental land and water fowl. This most excellent stock of pure-bred birds, that I have taken years to collect, is offered to you at extremely reasonable prices. My flock includes Pheasants, English Ring-Neck, Silver, Golden, Lady Amherst and Reeves; Ornamental Ducks: Redheads, Canvasbacks, Bluebills, Mandarins, Spoonbills, Pintails, Green-winged Teal, Blue-winged Teal, Cinnamon Teal, Wood Ducks, White English Calls, Mallards, Black Mallards, and Gray English Calls. We also have Canadian Wild Geese, Egyptian Geese, California Valley Quail, Bobtail Quail, and dozens of varieties of pigeons. All orders or inquiries will receive the prompt personal attention of my farm manager, Mr. B. E. Rogers, and all shipments will be made without delay. Complete bargain list with prices will be sent on request. Write today. Send 25 cents for our instruction booklet, "Management and Care of Pheasants and Other Ornamental Fowl." P. J. Sexton, Fair Oak Farms, Dept. A, Waukegan, Ill. 10-18-1f

DOGS

FOX TERRIERS—ANY AGE. Some bred females. Best rat, pet or watchdogs. T. H. Kaldenberg, Pella, Iowa. 10-12

REGISTERED SCOTCH COLLIE puppies. Leghorn pullets. Catalog, stamp. Failing Poultry Farm, La Fargeville, N. Y. 10-12

REGISTERED FOX TERRIERS — Best blood lines in America. Chas. R. Dodd, Girard, Kas. 9-11

PEDIGREED COLLIE PUPS. Males, \$10; females, \$5; London Hope at stud, fee \$10. Plummer McCullough, Mercer, Pa. 9-15-1f

FOX TERRIERS—Useful, handsome, males, females. Harding's Kennels, Detroit, Minnesota. 11-12

INCUBATORS—BROODERS—POULTRY SUPPLIES

FOR SALE—A NUMBER of Cyphers, Prairie State and Robert Essex 390-egg incubators, one Cyphers 144-egg incubator and one International Sanitary hover. All machines in perfect running order. John Cassidy, Rockville Centre, New York. 11

FOR SALE—NO. 1 Humphrey Bone Mill, practically new, \$12; 60-egg red hen incubator, \$3. E. B. Daniels, Stockbridge, Mich. 11

FOR SALE—WE ARE dissolving partnership and are offering: Six sections Candee Incubators; one Simplex brooder, 1500-chick size; five Simplex self-feeders; shipping boxes for hatching eggs, 39—100 egg size, 47—50-egg size. These articles are all in good condition and prices are right. Write Pendrey & Vance, R. 1, Wilmington, O. 11-12

FOR SALE—2 65-egg Buckeye hot water incubators, complete; never been used, as I changed my plans after purchasing. Cost \$10.50 each. Will sacrifice for \$8 each; cash, no trade; make remittance payable to American Poultry Journal. Address R., care American Poultry Journal, Chicago, Ill.

WANTED—PRAIRIE STATE, Mammoth, and Cyphers incubators; and coal burning brooders. Flora Boyer, Darlington, Ind. 11-1

FOR SALE—A CYPHERS Mammoth Incubator, ten section, 4,000-egg capacity, used four months, in excellent condition. Must sell for war reasons. Address B. A. White, Mt. Carmel, Ill., for particulars. 11-1

FOR SALE—SLIGHTLY used Candee and Hall incubators. Specify capacity wanted. One 4,000-egg new Cyphers Mammoth, never been used. A big bargain. Also a number of 390-egg Cyphers and Prairie State—good condition. Attractive prices for quick sale. Watson Mfg. Co., 2794 Ann St., Lancaster, Pa. 11

BOILER AND HOT WATER heating system for 1800-egg size, also case for above, regulators, etc., priced to sell. Fred Havig, Osage, Iowa. 11

PRAIRIE STATE INCUBATORS—390-egg size, 2 1916 model, \$40 each, 1915 model \$30. C. C. Burton, Geff, Ill. 11

FOR SALE — 4500-egg Hall incubator; slightly used. Good as new. Pabst Stock Farm, Oconomowoc, Wis. 10-11

CANARIES

IT PAYS TO RAISE Canaries—Big demand; start at home; spare time. We show you how; very little capital necessary; high grade songsters; breeders furnished. Monarch Specialty Co., Evanston, Ill. 9-12

GUARANTEED SINGERS—\$6 up, also good healthy breeding stock for sale. Mrs. G. A. Lowther, R. R. 1, Sandusky, O. 11

SILVER BLACK FOXES

CHOICE UNRELATED domesticated true Northeastern Canada Silver Black breeding foxes, in pairs. Reid Bros., Bothwell, Ontario, Canada. 8-1

PET STOCK

BEAUTIFUL ANGORA CATS and kittens, \$5 up. Stamp for reply. Bay View Farm, North Haven, Maine. 9-11

PATENT ATTORNEY

MEN OF IDEAS and inventive ability should write for new lists of "Needed Inventions," "Patent Buyers," and "How to Get Your Patent and Your Money." Randolph & Co., Patent Attorneys, Dept. 319, Washington, D. C. 10-17-1yr

VALUABLE PATENTS SECURED — Protect your ideas. Send drawings for patent ability search. New booklet free. Lester L. Sargent, 524 Tenth St., Washington, D. C. 9-17-1f

PRINTING

PRINTING FOR POULTRYMEN—Stockmen—Fanciers. Show catalogs, club annuals, letterheads, cards, tags, everything. Dependable service—lowest prices. Established 1900. Interesting samples FREE. Sullivan Printing Company, Drawer 10, Sullivan, Indiana. 11-1

POULTRYMEN'S PRINTING prepaid — Noteheads, envelopes, cards, tags, labels, 100 either, 60c; 250, \$1; 500, \$1.50; 1,000, \$2.50. Postcards, catalogs, circulars, linen letterheads, everything. Finest cuts furnished. Stamp brings elegant samples. Model Printing Company, Manchester, Ia. 9-11

POULTRY PRINTING — Largest, best equipped plant. Prompt service, low prices. Send for free price list, complete set of samples and catalog of poultry cuts. Rennekamp Printing Co., McKees Rocks, Pa. 9-11

SELL OR EXCHANGE

OVERLAND TOURING CAR—What have you? Bailey's Feedstore, Albion, Ill. 9-11

SALE OR EXCHANGE—Leg bands and other poultry supplies, for bred to lay early spring pullets. Peoples Supply Co., 807 Clark St., Warsaw, Ind. 11

EXCHANGE—LARGE BARRON Leghorn cockerels for good incubator. O. M. Shaw, Thorndale, Texas. 11

FARMS FOR SALE

60-ACRE FARM \$1200, with stock, tools and crops: Money-maker on main state road, near neighbors and beautiful lake, one mile to village stores, churches, creamery; productive tillage, wire-fenced, brook-watered pasture, estimated 400 cords wood, 20,000 feet hemlock timber; 50 apple trees, other fruit; 6-room house, 2 good barns; owner, for immediate sale, includes horse, 3 cows, hens, cream separator, buggy, harness, etc., hay and other crops, \$1,200 gets everything, easy terms; details page 9, Strout's Catalogue of this and other bargains, many with stock, tools, crops included, mailed free. E. A. Strout Farm Agency, Dept. 4002, 150 Nassau St., New York, N. Y. 11

FINEST HARDWOOD LAND in Michigan's best counties; 10, 20, 40, 80-acre tracts or more. \$15 to \$30 per acre. Easy payments. Free insurance. Settlers pay no taxes for five years. Write for big booklet free. Oldest and biggest company in the business. Swigart Land Co., 1-1259 First Nat'l Bank Bldg., Chicago, Ill. 11

FARMS WANTED.

WANTED TO HEAR from owners of good poultry farm for sale. State cash price, description. D. F. Bush, Minneapolis, Minn. 11-12

WANTED

WANTED—PULLETS, Mottled Javas and Anconas. Frank Buck, Metamora, O. 10-11

LOOK! WANTED—Pound size and larger pullets in Silver and Golden Campines, Buttercups, Speckled Sussex, Anconas, Rocks, Reds, Minorcas, Orpingtons, Wyandottes, Leghorns. Yearling hens in Silver or Golden Campines, Buttercups, Speckled Sussex, White Campines, S. C. White Minorcas. Only healthy thoroughbred stock wanted. In writing, state lowest price. Walker Lybarger, Gambier, Ohio. 10-12

WANTED—TWO, THREE-POUND pullets. Leghorns, Rocks, Reds, Wyandottes. Give price, weight, quantity. Blue Ridge Farm, Thurmont, Md. 10-11

BRITISH FIRM REQUIRE American Agency for Great Britain and Colonies for Poultry Appliances, stock, etc. Apply giving particulars and best selling terms in first instance to "Allies," care American Poultry Journal, Chicago, Ill. 11-1

SITUATION WANTED—Highly efficient poultry farm manager, previously in charge of the two largest commercial enterprises in the country, seeks connection with progressive enterprise on salary and commission or profit sharing basis. Draft exempt. Ten years successful record. A-1 credentials. Address Box 44, American Poultry Journal. 11

EXPERIENCED POULTRYMAN, single, desires position as manager or incubator man. Address E, care American Poultry Journal, Chicago, Ill. 11

WANTED—SITUATION to manage large hatchery or poultry farm, hatching and brooding my specialty. Twelve years at it, and positively know the game. Pleasing references. Married, no children. Address Hustler, care American Poultry Journal. 11

WANTED—WE DESIRE to buy a large number of chickens of the following standard varieties: Silver, Golden and Black Wyandottes, pullets and cockerels; Cornish Indian Games, pullets and cockerels; Dark Brahmas, pullets and cockerels; Red Caps, females and cockerels; Blue Andalusians, females and cockerels; W. F. Black Spanish, females and cockerels; S. C. White and S. C. Black Minorcas, females and cockerels; S. S. Hamburgs, females and cockerels. Stock must be large and vigorous and up to Standard requirements. If you mean business give full description and prices in your first letter. Address Midland Poultry Co., Freeport, Ill. 11-12

WANTED—HENS AND PULLETS in the following variety: Rose and Single Rhode Island Reds, Single Comb White Leghorns, Single Comb Barred Rocks, Single Comb White Rocks. Or will buy entire flock of the above varieties, please state stral and weight of birds and the very lowest cash price. Dora Blenkenbacker, Box A, Osage, Iowa. 11

POSITION WANTED by young, single man. Capable of managing large poultry farm. Remember, success in any business depends upon its management. Exempt from military service. State full particulars when writing. John A. Alexander, Canton, Mass. 11

EXPERIENCED POULTRYMAN desires position. Address Poultryman, care American Poultry Journal. 11

WANTED—PURE BRED poultry, Blue Andalusians, Games, Spanish, Houdans and other varieties; also pigeons, in Fantails, Carneaux, Homers. Describe what you have, quoting lowest prices. Z. G. McKay, Clinton, Iowa. 11-1

AUTOMOBILES

FORDS START EASY in cold weather—with our new 1919 carburetors. 34 miles per gallon. Use cheapest gasoline or half kerosene. Increased power. Styles for any motor. Very slow on high. Attach it yourself. Big profits to agents. Money back guarantee. 30 days' trial. Air-Friction Carburetor Co., 378 Madison, Dayton, Ohio. 10-18-17

TOO LATE TO CLASSIFY

TOM BARRON WHITE Leghorn cockerels cheap; also several hundred Barron pullets, March hatched, from one of America's best Barron breeders. One hundred year-old laying hens, all closely culled. Herbert Hayes, Bristol, Va. 11

ILLUSTRATED BREEDERS CARDS

Rates for Illustrated Breeders' Cards: With small sized illustration (to be furnished by us), 40 words 1 month \$3.00, each additional word 7c; 40 words 3 months \$8.00, each additional word 20c; 40 words 6 months \$15.00, each additional word 37c; 40 words 12 months \$25.00; each additional word 62½c. Numbers and initials count as words. Terms: Cash with order. Minimum charge, 40 words. Copy for advertisement, plainly written, should reach this office by the 15th of month preceding date of issue. In answering these ads, please mention American Poultry Journal.



DARK CORNISH—Old and young birds for sale. Singles, pairs, trios and breeding pens. Took every first, second and special in their class in Pennyroyal Show, 1918. Satisfaction always guaranteed. Write me. T. D. Moore, Route 7, Hopkinsville, Ky. 12-17-1yr



FIFTY VARIETIES OF FINE thoroughbred poultry. Cochins, Brahmas, Langshans, Rocks, Wyandottes, Houdans, Orpingtons, R. I. Reds, Leghorns, Polish, Hamburgs, Spanish, Ducks, Turkeys, Geese. Incubators and Large illustrated catalog mailed for 4c. C. M. Atwood, Box A7, Dundee, Minn. 9-17-2yr



DEAD GAME FIGHTING Fowls—Red, White and Blue. They are full-fledged "honest-to-goodness" 100 percent American. Cocks defend themselves with dying breath and hens have pep and vitality to shell out winter eggs. Illustrated folder free. Alfred E. Graham, Cameron, N. C. 11-17-1yr



OUR PULLET-BRED BARRED Plymouth Rocks at 1918 Iowa State Fair won 1 pen, 1 cock, 1-2-3 cockerel, 1-2 pullet. For the best in pullet-bred cockerels at reasonable prices write John Peterson, Box 29, Randall, Iowa. 3-18-1yr



Pullets lay at 5½ months, are non-sitters and heavy layers of large white eggs. Get my instructive booklet showing photos of my birds and giving prices on young stock. Investigate this wonderful breed of winter layers. N. W. Williams, Box A, Wilson, Va. 11



SILVER WYANDOTTES—Hundreds of choice early hatched breeders and exhibition birds from tramped hens for sale; first come, first served. Chas. Schroeder, St. Peter, Illinois. 11-12



WHITE ORPINGTONS—Line-bred for purity of color. Heavy laying and exhibition. Quality guaranteed. Winners leading shows; 40 cups, A. P. A. medals, club specials, etc. Catalog explains. F. S. Bullington, Box A, Richmond, Va. 5-18-1yr



PURE BRED WHITE Wyandottes, Rose and Single Comb Reds, Barred Rocks, breeding stock for sale. Eggs for hatching at very reasonable prices, quality considered. Special prices on eggs in large lots for filling incubators. N. E. Robart, R. 2, Caledonia, Mich. 6-18-1yr

For Sale 1000 B. P. ROCKS Including

FIRST PRIZE Boston Winners

AND STOCK BRED FROM BOSTON WINNERS

We Won 1917 at the National Barred Plymouth Rock Club Meet, Boston (did not compete 1918), all Seven Prizes on Cockerels, First Pen Chicks, First Pen Fowls, First Pen Mated for Cockerel Breeding, National Trophy Silver Cup for Best Cock, Cockerel, Hen, Pullet and Hen; also many other prizes.

50 COCK BIRDS

superior breeders or show specimens, \$10 to \$100 each; limited numbers of choice Hens, the kind that winners are bred from; Cockerels and Pullets, some of the finest we ever raised, part now ready, more as they develop; prices according to grade and selections made for individual requirements.

Male birds of our breeding hold, so far as our knowledge goes, the record for prices actually received for individual males. A phenomenal Madison Square Garden First Prize Record during the period there shown. Also a "silencing record" at Boston.

BRADLEY ROS. Box 909 LEE, MASS. Circular We please our customers



One of our Boston Birds

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CHICAGO HOUSEWRECKING CO

BARGAINS

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Price Wrecker Bulletin

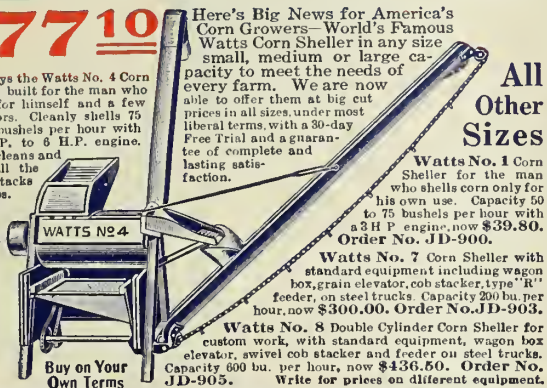
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now buys the Watts No. 4 Corn Sheller, built for the man who shells for himself and a few neighbors. Cleanly shells 75 to 125 bushels per hour with a 3 H.P. to 6 H.P. engine. Shells, cleans and loads all the corn—stacks the cobs.

Order No. JD-901



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Here's Big News for America's Corn Growers—World's Famous Watts Corn Sheller in any size small, medium or large capacity to meet the needs of every farm. We are now able to offer them at big cut prices in all sizes, under most liberal terms, with a 30-day Free Trial and a guarantee of complete and lasting satisfaction.

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Watts No. 8 Double Cylinder Corn Sheller for custom work, with standard equipment, wagon box elevator, swivel cob stacker and feeder on steel trucks. Capacity 600 bu. per hour, now \$436.50. Order No. JD-905. Write for prices on different equipment.

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ORDER DIRECT FROM THIS "AD"

Ajax high grade rubber surfaced roofing; put up 108 sq. ft. to the roll. Complete with nails and cement No. JD-302, 3-ply, per roll \$1.27; 2-ply, per roll \$1.17; 1-ply, per roll \$1.07.

Rawhide stone faced Gold Medal Roofing, guaranteed 15 years. Rolls contain 108 sq. ft., nails and cement included. No. JD-303, per roll \$2.20.

Our famous Rawhide Rubber Roofing, 3-ply, guaranteed for 12 years; a high grade covering. Rolls contain 108 sq. ft., nails and cement included. No. JD-304, 3-ply, per roll \$1.64; 2-ply, per roll \$1.44; 1-ply, per roll \$1.20.

10,000 rolls of extra heavy high grade roofing; red or gray slate coated, rock faced, brown pebble coated, double sanded; mineral or mica surfaced. No. JD-305, per roll of 108 sq. ft., nails and cement included, \$1.94.

Wonderful Metal Roofing Snaps! 28 gauge painted 2 1/2 in. corrugated, overhauled sheeting; 5 1/2 ft. long. No. JD-306, per 100 sq. ft. \$2.00.

26 gauge painted 2 1/2 in. corrugated, overhauled roofing sheets. No. JD-307, per 100 sq. ft. \$3.00.

24 gauge extra heavy painted, 2 1/2 in. corrugated overhauled sheets for roofing barns, granaries, etc. No. JD-308, per 100 sq. ft. \$3.50.



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\$210



A complete electric light plant at a big saving. 75 Light Rummyly-Falk Electric Light Outfit; complete with Willard rubber jar storage batteries, 30 volts. No. JD-213. Complete \$210.00.

Ford Radiators \$23



As Built For Ford Motor Co. JD-1507. Latest Honeycomb pattern. All parts coming in contact with water made of brass. Large water capacity and cooling surface. Finished in black japan. For 1909 to 1916 models, \$23.00. For 1917 and 1918 models \$25.00.

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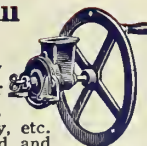
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48 in. High
45c Per Rod
No. 14 gauge wire at top and bottom. Spaced from 1 1/2 in. to 3 1/2 in. Heavily galvanized. JD-16, 48 in. high, per rod 45c; JD-17, 60 in. high, per rod 50c.

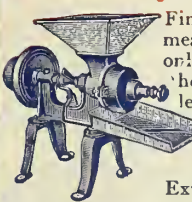
Bone Mill

\$330

Grinds dry bone, oyster shells, gravel, old crockery, etc. Easily adjusted and very durable. No. JD-8021, each \$3.30.



*1825 Buys This Excellent Feed Mill



Finely built, substantial Feed Mill for flour, meal, feed, etc. Little power—1 1/2 to 3 h. p. only needed to grind from 6 to 20 bushels per hour. Won't choke up. Complete with pulley, 6 1/2 in. diam., 4 1/2 in. face; two sets of burrs for coarse and fine grinding; sifter or bolting attachment. No. JD-101, each \$18.25.

Extra burrs, coarse, fine or medium, pair, 95c

Armstrong Kerosene Engines

Now Built For Us

\$66² H.P.

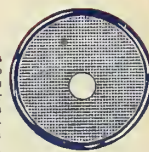
Newest and best Kerosene Engine—built for service since 1867. Write for full details of sale. All sizes, 2 h. p. to 16 h. p. Free trial, most liberal terms, your old engine taken as part payment and a guarantee forever.



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Regular \$5.00 extra fine Anti-glare auto lens. 2900 prisms cut on the inner side with bull's-eye pointing down below center, floods the road ahead with soft light. Supply limited, order quick. Fits any car, meets all anti-glare laws. Give size of your lenses. No. JD-212. Per pair 95c.



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One of the Great Imperial "Ringlet" Males.
Observe the Wonderful Shape, Color and Barring.

Their record at America's Imperial Show, Madison Square Garden, N. Y., for 30 years stands without parallel.

At the last 1918 Garden Show they won every first prize offered. At the last four shows, 1915, 1916, 1917, 1918, they won 19 first prizes out of 20 offered. First Prize Pullet and Champion Female the last four successive years—every prize and ribbon offered on cockerels, viz: 1st, 2nd, 3rd, 4th, 5th, the last five years in succession and under three different judges—every bird bred on my farm.

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The finest that all America has ever produced are now on my farm ready to win Blue Ribbons and Silver Cups for you in any competition in the world in Cocks, Cockerels, Hens, Pullets and Pens. Their matchless "Ringlet" barring wins under all judges. **As layers they are pre-eminent:** In my catalog are testimonials from customers giving positive "Ringlet" laying records up to 283 eggs in 10 months.

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have been won by my customers on the Imperial "Ringlets" in more than a thousand show rooms throughout the civilized world—you can win the same laurels. I will sell you grand exhibition birds for any show and breeders of this richest First Prize New York Blood in elegant single birds, trios or pens mated to produce prize-winners.

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from the finest exhibition matings in the world—now \$5 per setting. This is only one-third of my regular price. 100 eggs \$35.

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AMERICAN POULTRY JOURNAL

VOL. 49

DECEMBER, 1918

NO. 12

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"OVER HERE" AND "OVER THERE"

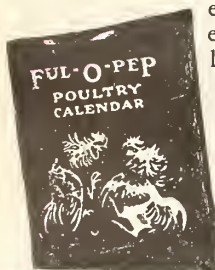


Keep Your Hens Laying All Winter

Don't make the mistake of trying to get eggs this Winter by feeding Scratch Feeds—**SCRATCH FEEDS WON'T MAKE EGGS** because they do not supply the hen with the necessary ingredients to produce eggs. Your hens will lay in Winter as well as Summer if you supply them with the same egg-producing feed that they pick up themselves in the Springtime. The feed that supplies these ingredients—the feed that will keep your hens laying all winter is

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This wonderful egg-producing feed is the result of continued experiments by our poultry feed experts. By watching the natural habits of the hen we learned that if she was provided with the proper kind of feed to keep her egg-making machinery working—if she was supplied with the same egg-making ingredients that she picks up on free range in the Springtime—she would lay eggs in Winter as well as Summer—it's the feed and not the season entirely that regulates egg production. **FUL-O-PEP DRY MASH** is the raw material from which an egg is made—it is a combination of green food, animal foods and grain protein foods finely ground and correctly balanced to make a feed as near to nature's egg-making material as it is possible for expert feed knowledge, science and experience to produce. Keep it before your hens all the time and you will get eggs in abundance this winter—**WE GUARANTEE IT.**



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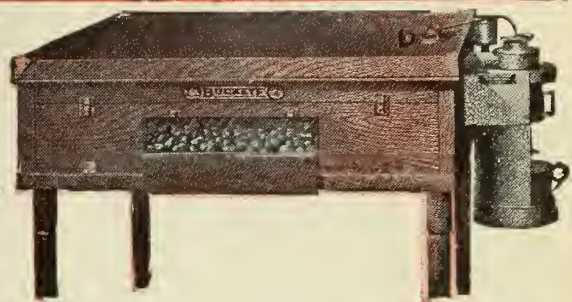


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Bill User says: "The Buckeye Incubator hatches a strong, vigorous chick from every hatchable egg I put in it."

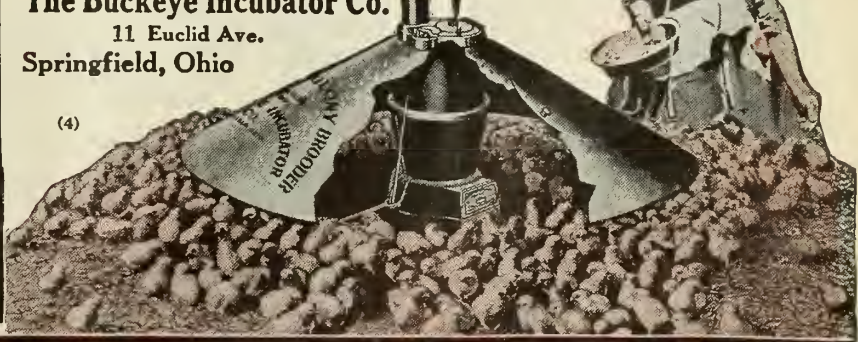
Because the Buckeye has taken "guess work" out of hatching it is demanded more and more by the most successful poultry raisers everywhere. You need not depend on "luck" when you use a Buckeye—put your dependence on the machine. Anyone can operate a Buckeye. It is practically automatic in action; requires no artificial moisture and very little attention. Built in all sizes, from 60 to 10,500 egg capacity. There are thousands of "Bill Users" who say that every size is the best for its purpose. Over 6000 of the leading dealers everywhere sell and guarantee it. Letters telling the remarkable results others are getting, together with much valuable information, are contained in our big catalog. Send for a copy of it today.

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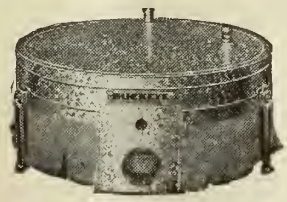
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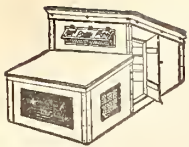
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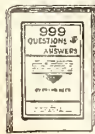
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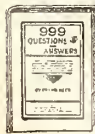
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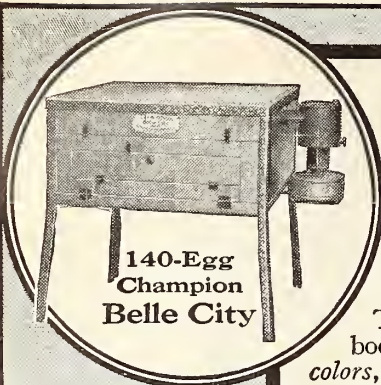
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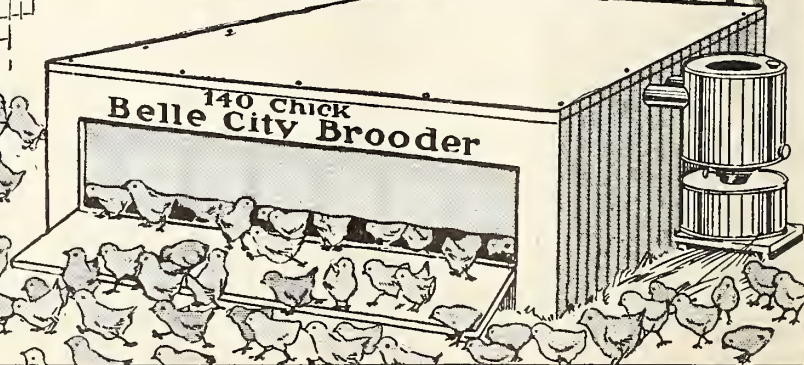
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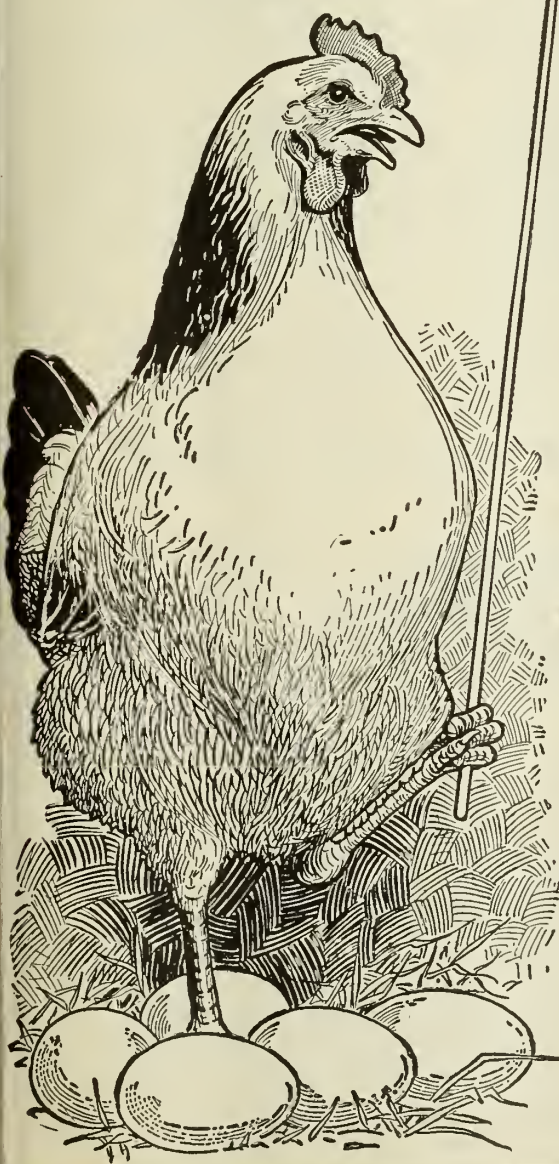
to you. Full particulars come with my catalogue, "Hatching Facts". These special offers provide ways to make extra money. With this Guaranteed Hatching Outfit and my complete guide book for setting up and operating, you are sure to have poultry in abundance, as shown here. Order now or write today for my catalogue — the most practical guide to success with poultry. — This book is free for the asking. A postal will do. Jim Rohan, Pres.

Belle City Incubator Co.

Box 27, Racine, Wis.



SUCRENE



POULTRY FEEDS

For More Eggs Winter and Summer

When dressing for the table a hen that was not laying you have often found that she carried a cluster of yolks, and you have wondered why she was not a good layer. It was not the hen's fault that she did not complete these embryo eggs and lay them. It was the fault of her feed, which was deficient in the elements necessary to form the whites and shells—a complete protein and mineral matter.

Buttermilk a Fine Poultry Feed

Its value for young chicks and laying hens is universally recognized by practical poultry men. It contains nutritive elements which are vital to poultry life, growth and egg production, and which are not found in any grain ration. Combined with the other high ingredients in Sucrene Poultry Mash, it puts meat on the youngster, feathers on the moulting hen, more eggs in the egg basket.

18% Protein in SUCRENE Poultry Mash with Buttermilk

is the particular kind of protein in which all grain feed is lacking—a "complete protein" which the hen can assimilate and utilize in the production of the whites of eggs. It also supplies mineral matter for shells.

Only materials of highest feeding value, especially selected with reference to the hen's needs, compose Sucrene Poultry Mash with Buttermilk: Meat Scraps, Alfalfa Meal, Corn Feed Meal, Wheat Bran, Flour Middlings, Dried Buttermilk and a little salt.

A "half-and-half" ration of Sucrene Poultry Mash and Sucrene Scratch Feed is the combination which brings full capacity egg yields, winter and summer—supplies hens with nutrients for as nearly an equal number of whites and yolks, with necessary shell forming material, as can be put into a ration.

Increased Egg Yield Pays for These Feeds

Give your hens a chance to make you more money this winter. Sucrene Feeds are not an expense but a big paying investment. Try them. Place your order at once with your dealer. If he can not supply you promptly write us. The coupon or post card brings you our illustrated literature on care and feeding of poultry.

American Milling Company

Dept. 15, Peoria, Ill.
(Sucrene Feeds for All Live Stock and Poultry—18 Years the Standard)

When the Young Chicks Come In Spring—Feed them Sucrene Poultry Mash with Buttermilk. It prevents chick losses because the buttermilk acid destroys disease germs. It also supplies special life and growth promoting materials, not found in any grain ration, and without which young chicks can not grow to full maturity. Brings young chicks to market or laying size several weeks earlier than ordinary feeds.

Please send me illustrated literature on feeds checked below: (15)

- Sucrene Poultry Mash with Buttermilk
- Sucrene Scratch Feed
- Sucrene Chick Feed

My Dealer's Name.....

P.O.....State.....

My Name.....

P.O.....State.....

Headquarters for S. C. Black Leghorns

□ The Largest and Best Flock in America □

From Imported Stock

BLACK Leghorns are the coming variety of this great breed. Come to headquarters and get the best. Many people prefer the Blacks to any other variety of Leghorns on account of their lustrous greenish-black plumage, which does not soil like the light-colored breeds. The Blacks are one of the most popular varieties in England, and are due for a great boom in this country.

Egg-Laying Contests Prove That Black Leghorns Are Second to None as Layers

Here is a grand opportunity to secure top-notch stock, bred from the best imported birds from the prize-winning stock of English shows, where Black Leghorns are one of the largest and strongest classes. Get in on the ground floor in a breed that is not overcrowded. Be in a position to command good prices for your stock, for buyers will have to come to you, or a few competitors, for their foundation.

A LARGE NUMBER of GRAND BIRDS for SALE

Seize Opportunity by the Forelock.

Write Today for Full Information

□
Howard L. Goss

Box A

Austin, Minn.

The World Wants Millions Of Fresh Eggs Your hens need sprouted oats to satisfy the world

Get the Facts About Our Grain Sprouter. Learn What It Has Done for Your Brother Poultry Raisers and What We Guarantee It for You

MAKE three bushels of fresh, green, tempting feed from one bushel of oats, wheat or rye. Turn loafing hens into money-making egg producers—have eggs to sell when prices are highest—get fertile eggs for spring hatching—all at a big saving in feed cost. Every poultry raiser should have a "Successful" Sprouter. Saves its cost in a few days' feeding and then keeps on saving money and doubling up your profits for a lifetime service.

Just what's needed in fall and winter to keep hens laying and needed again in the spring to make chicks grow into lively profit-producing birds. Write at once for complete 1919 offer. Sold on trial and pays for itself before trial runs out.

"SUCCESSFUL" Grain Sprouter Practically All Steel —Made in Sections

Double steel walls—metal trays. There is nothing else like the "Successful" Sprouter. It's a brand new idea. Cannot be compared to wooden sprouters. It is warp proof—shrink proof—nothing in it to rot—food cannot mold.

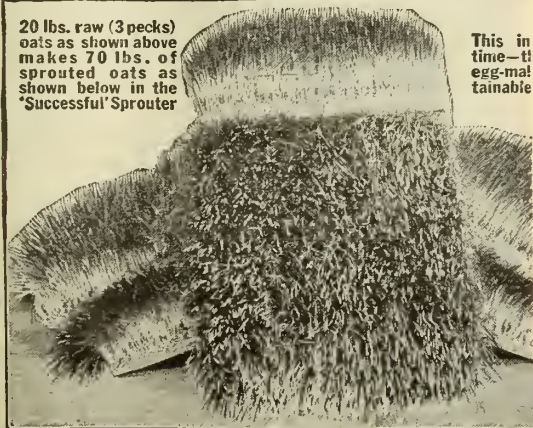
Made with glass doors. Each section a separate con. Start with just enough sections for your needs and as you need them.

Here is a money maker that proves its worth rig

Test seed corn and start your plants the easiest and surest way with this Des Moines Grain Sprouter.



20 lbs. raw (3 pecks) oats as shown above makes 70 lbs. of sprouted oats as shown below in the "Successful" Sprouter



This in time—t egg-ma tainable

SPROUTED OATS



Read These Letters From Owners

"Successful" Sprouter Best of All
Jamestown, N. Y., Sept. 12, 1918.
Dear Sirs: In reply to your letter of recent date will say that I have no objection to you publishing the letter I wrote you some time ago. I have used a number of different makes of Sprouters but the one I will use from now on will be the one THAT'S BEST, THE DES MOINES "SUCCESSFUL" OAT SPROUTER. As the results obtained from your Oat Sprouter it must be that your incubator is in the same class.

Oscar R. Weberg, Prop.
Chautauqua County Poul. Yards.

All Hens Commenced to Lay
Watkins, N. Y., April 20, 1918.
Gentlemen: I enclose name here with whom I am sure you can sell one of your sprouters. I like my sprouter very much. Sprouted oats is all I feed my hens at noon and they are certainly doing fine. Just as soon as I commenced to feed them the sprouted oats they all commenced to lay and have kept it up all through the cold weather. I certainly am well pleased with it. I can keep them on a third less feed.
Very truly yours, Mrs. D. Sitor.

start... and large yields 50 per cent—in
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Des
Moines
Incubator
Company
1 Third St.
Des Moines, Ia.
and me cir-
your 1919
"Success-
ter.

ADDRESS

City

State

Steer a Straight Course to
Victory and Success with

OAK DALE S.C.W. LEGHORNS

They stand above their competitors like the spire of a church stands out over a country village. They stand for pure, clean-cut supremacy. Their reputation is not builded upon air, but on many years of accomplishment. When

We Purchased the Flock of D. W. Young, of Monroe, N. Y.

we added the greatest string of showbirds in the world to our list. For years and years, Mr. Young has taken the cream of the prizes at Madison Square Garden, and now the descendants of these winners and the winners at the last shows are on our farm.



The Last Madison Square Garden Show They Won:

1-2-3 Cocks, 1-4-5 Hens, 1-2-3-4 Cockerels, 1-3 Pens, 2-3 Pullets and every special prize



Look at That Bird

How much would it be worth to you to raise one like him? **Get up in front and stay there.** Don't experiment with something that is short of the best. Are you ready for the good times that are coming in the poultry business? If not, **get set.** They are coming with a rush.

COCKS, COCKERELS PULLETS, HENS

that will win for you and produce winners. Order early and get the pick. Remember, if a bird we send does not suit you, all you have to do is to return it and get your money back. It is none too early to be thinking about hatching eggs. Better reserve your settings now.

Send today for our handsome
Catalog

NOTICE—We are not in competition at the Chicago Coliseum, as Mr. Young has been engaged to judge the Leghorns there, but will have a large exhibit there. Don't fail to see it.

OAK DALE FARMS

Successor to D. W. Young

Farm
Le Roy, Minn.

Business Address
Box A Austin, Minn.



Bigger, Better,

More Valuable Than Any Book We Ever Published Before—Let Me Send Your Copy at Once—FREE

Here Are Some Of The Subjects Covered In Our New Book

- How to make Poultry Raising a business.
- How to keep Hens Laying in winter.
- How to get by the feed question with present prices.
- How to make eggs substitute meat.
- How to make a Poultry Farm of your back yard.
- How to get children interested in Poultry.
- What's the best size Incubator to buy?
- What's the best way to save chicks?
- Where do leading varieties of poultry come from?
- Why do early hatches make the most money?
- How to make poultry pay your grocery and meat bills.
- Why does it cost less to produce a pound of poultry than a pound of pork or beef?
- Why do poultry raisers make more money per dollar invested than other live stock raisers?

MAYBE I overstepped the limit a little, but I set out to get up the best book on poultry raising that could possibly be published. I have completed the job. This is a bigger book than any we published in years. If it did nothing more than advertise Old Trusty Incubators and Brooders I hope you would send for it, but it is more than a catalog. It's a poultry book, with solid, practical information which 99 people out of 100 poultry raisers want if they make a success. It's a big book, with pages 9 x 12 inches. It's filled from front to back with the most valuable information for poultry raisers that I could dig up after 27 years' experience. I know you will want this book. I know it will help you. And I know I will be mighty glad to send it if you will

Send Me Your Name and Address

Poultry raisers have more orders than they can fill. And the demand this year is going to be tremendous. Country storekeepers are now paying 45c a dozen for eggs. And this is only early in the fall. Winter prices in the city are going to be higher than ever before. Don't miss this opportunity.

Get The Facts On Feed Prices

When 25c worth of feed will raise \$1.00 chicken or feed a

laying hen that produces five or six dozen eggs in two or three months, feed prices are not too high for profit. As long as chicks are growing or hens are laying they are paying a profit, no matter what the feed costs. The facts are, good poultry raisers are now making more money than ever before.

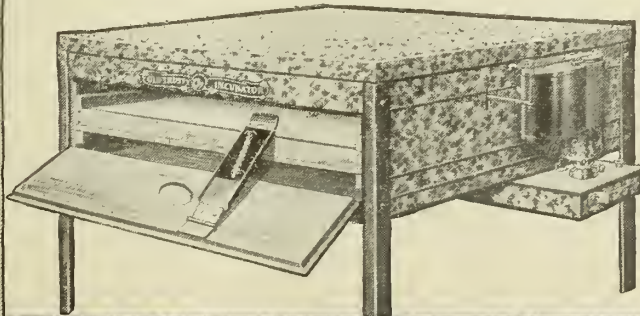
What would you think of the merchant who went out of business because manufacturers raised their prices of the goods he had to sell? The consumer is willing to pay high prices for eggs and chickens and is glad to get the produce. If you would like to get the profits, send me your name and address.

Old Trusty In 3 Home Sizes We'll Pay the Freight or Express

and guarantee safe delivery. 800,000 customers say Old Trusty is the hatcher for business. Common-sense construction and real value at a low price is the reason why. You are not trying out someone's experiment when you get Old Trusty. It's built in a big factory where big output makes a low price, and comes from a small town where we haven't learned how to get rich quick on good customers. Send for our catalog.

Your truly, Harry Johnson, the "Incubator Man."

**M. M. Johnson Company
Clay Center, Nebr.**



**M. M. Johnson
Inventor of
Old Trusty**

**Old Trusty
Incubators and Brooders**

M. M. Johnson Company, Clay Center, Nebr.
Please send me a copy of your 1919 Old Trusty Book.
Name
Address

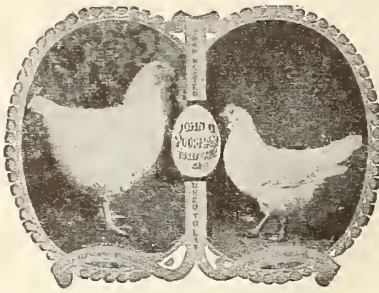
POORMAN'S 200 EGG STRAINS

THE
WORLD'S
BEST
LAYERS

REAL LAYERS

TRAP-
NESTED
200 EGG
STRAIN

STOCK
EGGS



BABY
CHICKS

White and Barred
Plymouth Rocks
Rose and Single Comb Reds

LADY ALFARATA BUSY BESS
Record 301 Eggs Record 285 Eggs

White and Buff Orpingtons
S. C. White Leghorns
White Wyandottes

Poorman has spent 19 years producing profitable layers, and knows how. The performances of his stock in the hands of more than 8000 customers prove this.

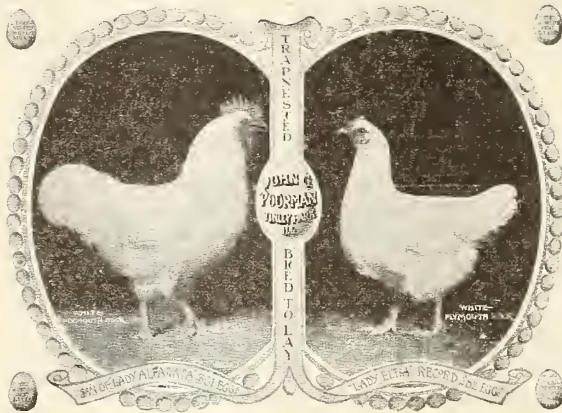
RESULTS

Cincinnati, O., Jan. 30, 1918.
Mr. John G. Poorman,
Tinley Park, Ill.

Dear Sir:

Enclosed please find Money Order (\$30.00) for a White Rock cockerel from your special mating. Kindly give me some information as to his ancestry, as I intend to breed him to some extra heavy laying hens. These hens were raised from chicks purchased from you in 1915 and 1916. Have trapnested them and some of the records are 280, 242, 216, 201, 200—not from the date of their first egg, but from November 1st to November 1st, same as the official laying contests.

Please ship as soon as possible via American Express to Elmwood Place, to be marked, "Will be called for."
T. J. H.



Special Pair Mating—White Plymouth Rocks

RESULTS

Grosse Ile, Mich., Feb. 5, '18
John G. Poorman,
Tinley Park, Ill.

Dear Sir:

Enclosed find my check for \$15.00 for which, with my credit of \$10.00, kindly book my order for 50 Class A day-old chicks.

If possible, I would like to receive this shipment by American Express not later than the 15th of April.

This sure has been tough laying weather for the last sixty days, but you may be surprised to learn that the Poorman Orpingtons have been hugging the 50 percent mark for December and January and have outlaid some White Leghorns which I had given to me last year.

With best regards for the season's success, I am
Very truly yours,
N. A. P.

Buy Your Foundation Stock Now

My catalog contains descriptions of my plant by representatives of the leading poultry publications, reports of many of my customers, and also my methods of breeding, care and management. It is fully illustrated and very instructive, and will prove to you that my prices are very reasonable.

The individual prices of my breeding and laying stock have not been advanced. A male bird today will cost you no more than it would two or three years ago—a better bird at the same price.

Liberty Bonds Acceptable

*Start right, by writing for my instructive catalog today.
It has helped others, and it will undoubtedly help you.*

JOHN G. POORMAN, Box 100, TINLEY PARK, ILLINOIS, U. S. A.

AMERICAN POULTRY JOURNAL

Volume 49

Chicago, Ill., December, 1918

No. 12

How Reconstruct the Poultry Industry?

The Minds of One and All Interested in Poultry Culture Should be at Work on Plans for Rebuilding the Industry Along Lines to Cope with After-War Conditions.

By H. E. Noszt

IT IS safe to say that there are not one-half dozen persons in the United States who have formulated any definite plans for the future upbuilding of the poultry industry. Undoubtedly a great many of those interested have given it a thought, realizing that something should be done, but who among the thousands engaged in poultry work has really mapped out any definite plan of procedure to safeguard the business in the days to come? It is not at all unlikely that "the big interests" have provided for every detail in the handling of poultry products in the future with the one idea of paying as little to the producer as possible. The question naturally arises, is the producer going to have anything to say about the price of his product or is he content to allow the other fellow to do his planning for him?

This is the time to work out and carry into effect definite businesslike plans for the reconstruction of the poultry industry. It does not matter what branch of the industry you are interested in, for its interests are all common interests and what benefits one is bound to benefit all. Whenever you hear a fancier say, "O, I don't care how low eggs go in price, I sell mine for hatching at a good figure," you may be sure he is something less than a fancier, since a real fancier is a man of vision and can see beyond the tip of his nose and thus quickly realizes the need for right conditions in the marketing of poultry as well as in breeding and exhibiting it. All forward-looking men are of the opinion that the better the co-operation between fanciers and market poultry growers, the better will be conditions for both of them. We have just fought a great war for democracy and now at the beginning of the reconstruction period it is a good time for the allied interests in poultry production to pull together, wholeheartedly and consistently, for the establishment of real businesslike principles in the conduct of their business. There is no reason why producers of good wholesome food products like poultry and eggs should sell these products at figures which will not cover cost of production—which includes a good living for the producer.

During the past few years there has been a persistent effort on the part of those in authority to discourage poultry production as a business. Those who should be working for the establishment of conditions which will insure the success of exclusive poultry ventures have, on the contrary, been instrumental in broadcasting propaganda directed toward the discouragement of poultry production as a business. The propagation of a doctrine so obviously directed against the best interests of the producer, as well as the consumer, tho probably unintentional, is harmful in the extreme. There is no reason why the production of poultry and eggs should not be engaged in as a business, and the statements made by various authorities during the past few years, that poultry keeping is successful only when engaged in as a backyard or sideline venture should be promptly refuted. We are today experiencing the result of the dissemination of this form of harmful propaganda in the widespread depletion of flocks, a lack

which cannot be made up by haphazard keeping of numerous small flocks.

If poultry and eggs are valuable human foods, as is acknowledged by everyone, then the business of producing them must be made a self-supporting business and not dependent upon a small flock here and a small flock there, nor upon the rearing of medium-sized flocks upon farms where woman's labor is poorly paid and where the grains fed poultry are raised and consequently not paid for. This procedure is most unbusinesslike, and if persisted in, must of necessity fail under conditions which we must presently face. The proposition is plainly up to all those interested in poultry culture, whether poultry production shall become a profitable, legitimate, necessary and important business in this country in the years to come, or whether we shall allow it to drag along without ideas or plans for its future molding and unbuilding. The question arises, to whom shall we go for advice as to its future welfare?

There are various classes of men and women interested in the poultry business. We have the well trained, ardent and capable fancier breeder whose ideas are centered upon the betterment of the breeds of poultry; the market poulterer whose goal is a comfortable living from healthily grown, properly marketed poultry meat and eggs; the backlotter who aims to supply his family with fresh laid eggs and an occasional Sunday dinner; the farmer who spends a little time on a flock of chickens much as he does on a garden or truck patch for family use. In addition to these there are the supply houses, the publishing houses, the poultry food manufacturers, the hatcheries, and various and sundry other concerns all vitally interested in the welfare of the poultry industry. Who among them has outlined a plan for future work with poultry? Who can suggest a workable idea that will enable poultry keepers to stay in business and live.

It seems to me that whatever plans are outlined, *the foundation stone should be that the producer of good wholesome foods have the privilege of setting the price upon his product at a reasonable percentage above the cost of production.* In order to carry this into effect, all allied interests of the poultry industry in the near future should institute a vigorous and well mapped out campaign of advertising, directed toward the education of the general public in the value and use of poultry products and the cost of producing and marketing same. This is merely offered as a suggestion. The object of this article is to incite others to exercise their minds and to express their opinions as to plans for the reconstruction period in poultry culture. We are at a point now where either we will go ahead; or slide swiftly backward if no workable plan is brought forward and put into operation.

In order to bring about any effective work, organization should be back of the undertaking. Now we have various organizations, all supposedly for the same purpose, but apparently not pulling in the same direction. At least so far as the layman has been able to observe we have no organization

working as it should for the poultryman's interests. An organization is only of value when it best serves those interests for which it was formed and by whom it is supported. Out of the poultry organizations now in existence it would seem that some effective method of procedure could be brought about, but there will be needed the combined support of all poultry interests to do it, and the urgent necessity exists for a well formulated plan of work. No one would attempt to erect a building without well considered plans to go by. The architect is an important personage in the erection of a building, his plans are carefully mapped out, and day by day carried into execution. In this way there is something to show for the expenditure of effort and funds,

but a builder without plans might easily spend a lifetime and several fortunes and have nothing but a pile of useless junk to show for it. There is a story told of a tribe of ancients who after several centuries of frittering time and effort "reached the nothing for which they set out."

If the poultry fraternity is to get anywhere, it must have well defined, well organized aims and competent individuals to carry them into effect. Anyone with a good idea as to the future welfare of poultry culture should express it. I should like to see the columns of the poultry papers filled with suggestions along this line, for this would be the only effective way to reach those interested and to aid in stirring up enthusiasm among them. What suggestion have you to offer?

Record of a Year's Work With Poultry

The Only Way to Know the Net Result is to Keep a Record. First Prize Article A. P. J. Monthly Contest. *By H. A. A. Reubush*

SINCE I became interested in poultry work I have found the reports of other poultry keepers of great value, especially those which give records for a full year or more, of work with their flocks. Little can be gained by records kept for a few months only, as it is the year round work which counts. Believing that the record of my flock may prove of value to others, I am sending a full report of my flock of S. C. White Leghorns for one year, beginning October 1, 1917, and ending September 30, 1918.

The flock was housed in an open-front house, and whenever the weather permitted, had a free woodland range. The layers were not all kept the full year, some of them being sold in June and July. Every egg and chicken used on the family table is accounted for as "sold" at the market price at the time used.

The expenditures are as follows:

65 hens, 174 lbs. at 22c.....	\$ 38.28
87 pullets and cockerels, 169 lbs. at 25c.....	42.25
10 broilers, 9 lbs. at 23c.....	2.07
Hatching eggs.....	52.64
Oil for incubators.....	3.39
154 gallons buttermilk.....	7.00
2,325 lbs. coal for brooders.....	12.75
228 lbs. starting food.....	11.40
2,958 lbs. shorts.....	56.42
1,264 lbs. bran.....	23.70
3,033 lbs. wheat screenings.....	64.22
875 lbs. oats.....	19.19
425 lbs. beef scrap.....	17.23
250 lbs. millet.....	7.50
350 lbs. oyster shells.....	3.00
34 bbls. corn (on cob).....	68.80
Hauling coal.....	4.00
Horse hire.....	15.25
Disinfectants, poultry powders, etc.....	16.11
Labor, 675½ hours at 25c an hour.....	168.87
Interest on investment, depreciation of buildings and equipment.....	20.00
Total expenditure.....	\$654.07

RECEIPTS.

1061 2/3 dozen eggs.....	\$363.67
Broilers sold.....	168.51
Hens and cocks sold.....	78.55
40 hens on hand, estimated average weight 3¼ lbs. each.....	33.80
114 pullets and cockerels on hand, average 2½ lbs.....	74.10
Total receipts.....	\$718.63

This left us total net receipts of \$64.56. The hens averaged 105 eggs each during the year, which may not seem a very good showing when compared with the frequently published records of 200 to 300-egg layers, but it is an improvement over our last year's record, which was only an average of 70 eggs per hen.

The highest price we received for eggs was 63c per dozen and the lowest price was 26c. The average price was 34c. While the average cost of feed was \$2.38 per hundred pounds.

The time allowed for labor is estimated and may seem large to some, but I have given as nearly correct as possible without really keeping a daily account of same, which is an almost impossible task on the average farm, where one does not put in all day on the work with poultry.

Mill feeds as well as all other feeds are very scarce here

and I have made over fifty trips for feed, sometimes securing several bags and sometimes none at all. The ready mixed poultry feeds are hard to obtain here.

I live on my father's farm, and he allows me the use of the horse, wagon, etc., without charge, but I have aimed to charge for these at just the cost if it had been necessary to hire them. The charge of 25c per hour for labor is the charge for common labor hereabouts.

Below I give an itemized account of the expenditures and receipts of one flock of chickens hatched in January for early squab broilers.

EXPENDITURES.

460 eggs for hatching.....	\$ 21.42
Oil for incubator.....	1.42
77½ gallons buttermilk.....	3.68
206½ lbs. shorts.....	3.93
179 lbs. bran.....	3.27
117 lbs. wheat screenings.....	2.21
67½ lbs. beef scrap.....	2.74
28¾ lbs. starting food.....	1.29
30 lbs. oyster shell.....	.22
184 lbs. corn meal.....	4.95
1,060 lbs. coal for brooder.....	5.74
Hauling coal.....	2.00
Hauling milk and feed (seventeen trips).....	10.62
Brooder.....	1.00
Incubator.....	1.25
Miscellaneous.....	4.18
Labor, 56 days, 3 hrs. per day, at 25c.....	42.00

Total expenditures.....\$111.92

RECEIPTS.

226 broilers sold.....\$119.35

This leaves the net proceeds for the flock \$7.43. The three hours per day charged for labor looks big, but as these chicks were hatched in January, during the most severe winter we have had for many years, they required almost constant attention, and I am of the opinion that I spent more time caring for them than I have charged for.

The chicks were brooded by a coal brooder, in a 16x20 ft. house, with four large windows in the front and two small ones in the back. The brooder was set at one end, in a square enclosure, about 10x10 ft., made of burlap, and inside of this a circle, about 10 ft. in diameter, of one inch mesh wire netting. The chicks were kept in this wire and burlap enclosure for about two weeks, after which they were allowed to run at will all over the house, except early in the morning and late in the evening.

We put 246 chicks in the brooder house, raised and sold 226 of them, so the mortality loss was uncommonly slight. Part of the chicks were sold at seven weeks and the remainder at nine weeks of age. The prices paid for poultry and eggs in this section may seem low in comparison to that paid in many parts of the country, but it will be noted that cost of production is lower here than in many places.

It is my opinion that the habit of keeping records is one of the best the poultryman can form, since it is his best means of correcting mistakes, which if persisted in make failure inevitable. Every poultry keeper owes it to the industry to keep books and thus assist in placing the business on a better footing.

How to Help the Beginner to Succeed

Breeders Should Instruct Their Customers How and What to Feed Poultry and the Necessity for Sanitary Houses and Yards, Especially Where Range is Limited.
Second Prize Article A. P. J. Monthly Contest. *By Mary Wayne Brown*

IT IS probable that among the many beginners with poultry this year there will be a goodly number disappointed at not getting winter eggs. Every poultry keeper wants to get eggs from his flock during November, December and January when eggs are scarce and high in price. Getting eggs in the fall is chiefly a matter of early hatching and uniform healthy development of the chicks by supplying them with plenty of good wholesome food, grass range where possible, and open air housing. Hatching chicks early will not bring about early laying unless the birds are well fed and cared for during the entire period of growth.

Recently I spent a few days in a growing town where a large number of the householders are keeping a back-yard war-time flock of poultry. At the time I was there (the first week in November) they were experiencing an egg famine of no mean extent. There were practically no eggs in town, flocks on the surrounding farms had been greatly cut down, and were not laying beyond the needs of their owners, and the only eggs to be had were storage eggs, with the exception of a few dozen weekly from a poultry yard on the edge of the town. The proprietor, an enterprising woman and poultry enthusiast, claimed she was never without a small supply of fresh laid eggs at any season of the year. Her receipt for filling the egg basket was "healthy quarters and plenty of wholesome food for the birds."

"The hens and pullets eat just as much when grain is high as they do when it is very cheap, but most people seem to think that hens should consume less because grain is high. I feed my birds all they will eat up clean, no matter whether I am paying \$1.50 or \$5 a bag for grain."

There is always a temptation to cut down on the ration when there is a let-up on egg production, or during those trying weeks just before laying begins, when pullets consume

food by the wholesale in preparation for the work they are to perform. I was interested to investigate conditions a bit in the little town of which I speak and to determine why in all those poultry yards the flocks were idle and their owners crying for eggs. In nearly every case, I believe, it was a lack of sufficient food and healthful surroundings. The birds



A Chicago Coliseum prize-winning S. C. White Leghorn male. Owned by F. D. Rogers, Douglas Road, Elgin, Ill.

were mostly enclosed in narrow, hemmed-in yards, scantily fed once or twice a day, and for the rest dependent upon swill thrown them. The owners did not seem to have any idea of just what kinds of swill fowls will eat, and not taking the trouble to observe what was left by them in the yards, the accumulation in many yards was alarming. I saw miniature mountains of coffee grounds, grapefruit and orange skins, meat bones and the hard shell-like peelings of turban squashes, none of which the fowls could eat, and which consequently served to taint the limited quarters in which the birds were penned. Said one owner: "They don't eat up half the stuff I throw them, so it isn't because they don't get enough to eat that they don't lay." It took some little explanation to show that fowls cannot make eggs out of food which they do not like and in which there is no element necessary for egg production, but at length the light dawned on the novice poultry keeper, who in the course of the conversation had told me that "a lecturer told us we could keep our war flocks on table scraps—but perhaps he thought we threw away good food in our table scraps, but we don't."

The average family usually has more or less waste that can be fed to a back-yard flock of poultry, but it is the business of the poultry keeper to know what the birds will eat and what they will not. All vegetable waste can be utilized for poultry feeding. Even the hard shell of squash or pumpkin is relished if placed over a fire in boiling water for half an



Glenco Perfection, second Black Orpington cockerel, Chicago Coliseum, 1917; sweepstakes cockerel in English class, Iowa State Fair; best cockerel in English class at Heart of America Show, Kansas City, 1917. Owned by Dr. G. H. Humphrey, Woodbine, Iowa.

hour and thus softened so the birds can devour it. Coal ashes and cinders help to sweeten the poultry yard and serve them usefully in the form of dust baths and grit. Bones can only be fed by being ground or pounded up finely and egg shells should be crushed before being thrown into the poultry yard, since there is the danger of teaching the birds the habit of egg eating if allowed to pick at egg shells while still in the form of an egg. In the average household there is considerable waste from fruit, such as apples, that can be profitably fed to the back-yard flock. Feed the peelings raw or cooked in a mash with potato or any vegetable parings, and thicken with meal. Partly decayed apples should be cut in two before feeding or cooked in a mash. Celery leaves, outside leaves from cabbage, turnip, beet or carrot tops make fine green food and are eagerly devoured when green stuffs are scarce.

The novice may consider that these precautions in feeding and caring for a war-time flock are a waste of time, but if he will take the trouble to note results he will discover that only by this attention to detail do flocks of poultry respond profitably to the care given them. In some cases which I have had occasion to observe, the back-yard flock of poultry is a positive menace to the health of the neighborhood, since everything from wash water to soap fat is dumped in the narrow quarters of the poultry yard. The ground soon becomes sour and in time is bound to result in unhealthy conditions. It is too bad that the Society for the Prevention of Cruelty to Animals does not step in about that time and insist on a general clean-up.

There is today need and an urgent demand for more back-yard flocks of poultry. Thousands of men and women in our cities and large towns could profitably take up poultry keeping on a small scale, but a primary consideration should be that they know how and what to feed poultry. Poultry fanciers everywhere should take it upon themselves to instruct all who purchase chicks, breeding or laying stock, that the secret of success is in feeding wholesome grains and foodstuffs and

in keeping the back-yard flock in sanitary surroundings. I believe it would greatly aid the poultry industry if every breeder selling chicks or stock should have printed slips of instructions to be sent the purchaser with every shipment. Let it be plainly understood that poultry of all kinds, from baby chicks up, requires good wholesome food, that no good can result from feeding unselected swill, or thru haphazard feeding of any old thing left from the table. There has been entirely too much indiscriminate advice to novices about feeding poultry on table waste. No family in moderate circumstances has enough table waste to feed more than one hen, and very few families have that much. There will always be a few tid-bits left from the family table which the back-yard flock will relish, but it will always be cheaper to buy eggs at the top-notch price than it will to feed a back-yard flock on table waste. Human food is too scarce and high in price to permit feeding it to hogs or poultry. There is a mean between extremes wherein many kinds of scraps can be utilized to help out in feeding the back-yard flock and if the owner will take the trouble to see that these scraps are fed in the most appetizing, most easily assimilated form, the birds will amply repay his effort.

To get eggs in the fall and early winter from a back-yard flock requires careful supervision. It is being done by many poultry keepers who take an interest in their birds and who realize that in order to get eggs the birds must be fed an abundance of good wholesome grain.

Poultry organizations might profitably take up the subject of education in regard to the care and feeding of poultry and formulate a program for the circulation of advice among beginners. No extensive set of rules is necessary or advisable, but a few simple straightforward words of advice, pointing out the importance of clean, wholesome yards, especially where the range is limited, and the necessity of feeding enough wholesome food to insure proper growth and subsequent egg production would, I feel sure, prove of great benefit to the vast army of beginners with poultry.



"SUN FLOWER MAID"



229 EGGS, NATIONAL EGG LAYING CONTEST
Sired by 3rd CKL, SAN FRANCISCO WORLDS FAIR
C.R. BAKER, ABILENE, KANSAS

Mating Poultry to Get Practical Results

American Ideals Demand Recognition of Every Element of Beauty Dependent Upon Vigor, Vitality and Capacity for Usefulness.

By Animal Husbandry Division, United States Department of Agriculture

THE TERM "practical" is used here in the broad sense in which it applies as truly to all things that help to create and maintain interest in poultry production as to the things which relate particularly and directly to the production of eggs and meat.

There is nothing in the nature of poultry that would prevent supplying the world with all the poultry products it could use from races of poultry not attractive to the eye and not uniform in appearance. But there is that in the nature of man which makes poultry keepers give more careful attention to flocks in which they take pride, and makes the sight of a uniform, handsome flock effective beyond all other things in extending interest in poultry culture.

PRIDE A FACTOR IN SUCCESS.

It is a general fact in the history of modern poultry culture that interest in poultry having distinctive appearance is essential to any marked increase in poultry products. It is also a matter of common observation that poultry keepers who are indifferent about the looks of their stock rarely make notable successes. Good work with stock that does not look good is not impossible, but what there is of it is occasional, irregular and spasmodic. As a rule the owner of a flock of mongrel-looking poultry that does uncommonly well soon begins systematic efforts to improve its appearance.

A goodlooking flock is a standing advertisement of a certain measure of efficiency in poultry culture. It is plain evidence open to all, of skill in breeding and growing poultry; while performance—especially in egg production is celebrated only so far as detailed accounts of it are published. Appearance speaks for itself; performance in this line must have some one speak for it. Sufficient attention to appearance to secure a pleasing uniformity in a flock is in the highest

degree practical. Experience has shown over and over that where this is lacking, interest is apt to flag and production is not maintained.

American standards for poultry express the characteristic American attitude in regard to combining beauty with utility in the individual bird and in the breed. While a few breed types show the development of superficial characters carried to extremes which unfit the breed for common use, these extreme developments are all of foreign origin, the popularity of the breeds possessing them is very limited, and the influence of the common American demand for use with beauty tends constantly to modify extreme types.

BEAUTY AND UTILITY IN COMBINATION.

The American idea of utility and beauty in combination in domestic animals and birds is, that those forms and elements of beauty which are expressions of actual worth, and those which are attractive and in no way inimical to utility qualities should be cultivated, but that those which are in any measure incompatible with usefulness ought to be eliminated. The elimination or modification of characters undesirable in poultry kept for use under ordinary conditions is distinctive of breeds of American origin, and of American types of breeds of foreign origin which attain any popularity here.

The mating of poultry to conform to the American Standard of Perfection's requirements, and at the same time give good and satisfactory results in meat and egg production, is, in practice, a matter of progressive selection, beginning with selection for the desired utility properties. It differs from ordinary selection for producing Standard exhibition stock in that no measure of merit in any exhibition quality is allowed to offset distinct lack of utility value.

This principle is not as drastic in operation as it appears in statement, for in all the popular varieties of poultry, and





W. J. Wilbur
1918

FIRST AND SECOND PRIZE PENS, WHITE PLYMOUTH ROCKS, AT MADISON SQUARE GARDEN N.Y. 1918 Bred & Owned By, WILBURTHA POULTRY FARMS TRENTON N.J.

in most others as well, the Standard type is either a good utility type, or a reasonable interpretation of the language of the Standard admits of the development of a type that is at least not seriously objectionable from a utility standpoint. The birds rejected in this process of selection are those which conform better to the superficial than to the substantial requirements of the Standard.

WEIGHT A MEASURE OF SIZE.

The first step in this selection is the discarding absolutely all specimens that do not closely approximate the standard weight for their breed. In any standard breed, the standard weights for adult male and female are the most desirable weights for breeding specimens. The weight of a bird in good breeding condition, well-fleshed and firm in flesh, is as satisfactory a measure of size as can be used in selection for breeding, and rigid application of the rule to use only specimens closely approximating Standard weights for adults, with due consideration of type, virtually insures that the stock will be kept up to size.

The weights for adult birds should apply just the same to young birds used in breeding, for immature birds are not fit for breeding and young birds that at maturity are much under weight are most undesirable. Rigid adherence to exact Standard weights is, of course, impractical, but it is advisable to avoid variations of more than five or six percent either way.

After weight, type should be considered. This must be judged with the eye. There is more room and more excuse for latitude on this point than for latitude in weight. Weight is measured by one fixed standard of measurement. Type is made up of several elements, and estimates of type must be more or less a matter of opinion. In common practice selection for type comes down to the rejection of specimens that are unmistakably off-type, to a careful matching for type of the females used in each mating, and to the mating of each male to the females which in union with him will reproduce the breed type most satisfactorily.

CONSIDERATION OF TYPE.

A proper appreciation and consideration of type as it relates to mating covers a number of points commonly treated as independent. Most important is the question of vigor and vitality as expressed in type. The standard type of a breed presents, with a certain size and form, a carriage and symmetry which are the result and expression of vigor, vitality, and a perfectly balanced structure, and are therefore as much a part of type as length, breadth and depth of body, or length and character of neck and legs.

The vitality and perfection of type which make a bird naturally "carry itself well" are possessed in much higher degree by some birds than by others which when stripped of their feathers appear almost identical in form. Almost all birds can be taught to stand for inspection in a pose that shows true breed type, but a bird which does not naturally assume the poses which show its type to advantage is not desirable as a breeder, because its indisposition or inability to carry itself well at all times comes from some structural or constitutional fault which impairs its value as a producer of offspring of marked practical value.

A further test of the vitality and vigor of birds is to observe how they bear unpleasant weather conditions, and sudden changes of temperature—especially changes from warm or comfortable to raw, chilly weather. Susceptibility to such changes shows a lack of robustness of constitution, and poor circulation of the blood. Many birds which look fine in pleasant weather appear dejected and miserable on dull days. Whole flocks often

behave in this manner. However common this may be, it is not normal. Perfectly sound and healthy creatures are not so affected.

CAUSES OF LACK OF VIGOR.

Sometimes wrong management, putting the stock out of condition, is the cause. Bad ventilation in poultry houses, underfeeding, overfeeding—especially the too free use of highly concentrated feeds to force growth or egg production, are common causes of a condition of the system which makes poultry unduly susceptible to ordinary weather changes. Where wrong management is discovered, correct treatment will cure most birds of the habit of huddling about in dull weather. Birds that are noticeably susceptible when the environment is in all respects good ought never to be considered as breeders.

Due consideration of type on the lines indicated above automatically covers the characters and conditions of head and foot points which are co-ordinated with high vitality. A bird that is beyond criticism in those sections may fail to show good general breed type and a carriage expressive of vigor, but a bird that shows these general qualities in high degree cannot be defective in the head and foot points desirable in a breeder, for if it is, its general attitude and carriage are affected.

Appropriate size and type, and the vitality that gives and expresses perfect health and condition, then, are the essentials in mating standard poultry for practical results. On this foundation the breeder who desires to produce birds of high exhibition quality can build with certainty that his stock will also be notable for its practical qualities.

The late James Rankin said: "Persons wishing to start raising ducks can do so to best advantage and at least expense by setting the eggs in summer when they are cheap, and raise the ducks for an egg supply next season."



First prize Barred Plymouth Rock cockerel and sweepstakes champion male at Madison Square Garden, New York, January, 1918. Owned by E. B. Thompson, Lock Box 510, Amenia, N. Y.

"WE LEAD, OTHERS FOLLOW"

EDITORIAL

American Poultry Journal

Entered as Second-Class Matter August 9, 1896, at the Postoffice at Chicago, Ill., under Act of March 3, 1879

SUBSCRIPTION PRICES

United States, Cuba, Mexico and United States Possessions (except Chicago).....	1 Year \$0.60	3 Years \$1.00
Canada .....	.85	1.75
Foreign	1.10	2.50
Chicago .....	.75	1.50

Chicago, Canadian and Foreign subscriptions require additional postage and therefore the slight difference in prices.

TRIAL SUBSCRIPTIONS — In order to acquaint prospective subscribers with American Poultry Journal, we will mail one copy a month for six consecutive months to any point in the United States, its possessions or to Cuba or Mexico for 25c. The trial subscription offer (6 months for 25c) is for new subscribers only and not subject to renewal for a period of less than one or three years.

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TRADE MARK REGISTERED,
No. 74,059.

Issued the first of each month.

Published by

**American Poultry Journal
Publishing Co.**

JAS. W. BELL, President,
523 Plymouth Court, Chicago, Ill.

Editors.

JAMES W. BELL,
PRINCE T. WOODS.

PRINCE T. WOODS, M. D., Managing
Editor, Silver Lake, Plymouth Co., Mass.

Advertising Representative,
E. G. ALDRICH.

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53,000 American Poultry Journals for
December, 1918.

State of Illinois, County of Cook, ss.:

G. M. Atwell, president of the Atwell Printing and Binding Co., Chicago, being duly sworn, certifies that the American Poultry Journal has contracted for printing and binding 53,000 copies of the December, 1918, issue.

G. M. ATWELL.

Subscribed and sworn to before me this
21st day of November, 1918.

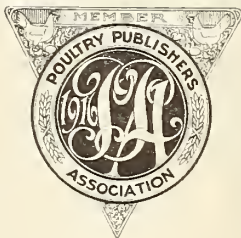
(SEAL) ALICE A. SHEHAN
Notary Public.

Merrie Christmas!

CHRISTMAS, 1918, ought to be a memorable occasion, should be one of the most joyous celebrations of the birth the Prince of Peace in all history.

Seemingly the dawn of a new era, the beginning of real peace and good-will toward men, is at hand. The first half of the war is won, our boys in army and navy have done their part and done it well. Now begins the reconstruction period in which every man, woman and child must play an active part. The biggest four years' war of all time is won. It may take months, perhaps longer, to begin to bring order out of chaos, to stop destruction and to create a foundation of understanding upon which real reconstruction can start. The essentials of victory are with the United States and her Allies.

But the end of the war is not yet. We have not yet reached the fulfillment of the promise in President Wilson's message to Congress when the United States entered the war: "For democracy, for the right of those who submit to authority to have a voice in their own governments, for the rights and liberties of small nations, for a universal dominion of right by such a concert of free peoples as shall bring peace and safety to all nations and make the world itself at last free." The war is won. Yet, the real war is just beginning. All of us have a part in it. The war against intolerance, war against ignorance, war against prejudice, war against disease, war against injustice. A New World and a new order of things has been bought and paid for in the blood of brave men and women. We cannot return to things as they were, to life and business "as usual" before the war, without going backward, and civilization must go forward to a World of Lasting Peace or cease to be. Many civilizations have risen, strutted in pride, then tottered and crumbled because the time was not ripe and mankind too full of pride, lust, and greed to see and think clearly in visions of real progress. Our country entered the war with the avowed ideal to "make the world safe for democracy." Our president gave voice to the promise that we should "be free to base peace on generosity and justice, to the exclusion of all selfish claims to advantage even on the part of the victors." That message has been heard thruout the world and there is widespread revolt thruout the eastern hemisphere against tyrannical autocracy. Revolution of afflicted peoples has helped our victorious armies to win the war. Much now depends upon the wisdom



and justice of statesmen, as well as upon the common sense of the people, in bringing the ideals to full fruit. If we all do our part, Peace and Good-Will to Men will come to a world-wide brotherhood of all men. If we break faith with those who have died for us, if we fail in our purpose and return to the old ruts of "as usual" in the essential things of life—which seems almost unthinkable—if we are false to our ideals, then all the sacrifice has been in vain.

A New World, a world of Peace and United Peoples is opening to us, the opportunity is at hand if we have the strength and the will to grasp it. If we are worthy we may all share in the real redemption of the world and the Great Opportunity is within our reach. A few of the world's really great men seem to realize what is possible to us in the coming reconstruction. There are trying and difficult times ahead, radical changes in social and business life, if we are to be true to our great obligations. Are we big enough? Have we sufficient vision? Have we the strength of character and of purpose to set aside things as they were and to bury our old faults of greed and self-centered conservatism? Only the future can determine.

We can be thankful for the opportunity that is at hand, for the progress which has been accomplished, and hopeful for the future good which must come if we are ripe for it and the time is at hand. So make this Christmastide a joyous one, make it a beginning of *living* what we preach and what we have always sought to teach our children. It is bound to be a memorable Christmas. Do your part to your utmost. Enjoy to the full the pleasure of *giving*, which is greater than that of receiving. The future is bright with happy possibilities. May you and all of yours find this, in its fullest sense, a truly Merrie Christmas.

What is Wrong With the A. P. A.?

What is wrong with the American Poultry Association? Even the promise of a new constitution does not seem to quiet the criticism of men who are considered to be among the most loyal members. There are charges of careless expenditure of funds, indifferent business management, and many believe that the association finances are in a very bad way. Frequently the criticism is confined to letters marked "confidential" or to personal talks. Why do not the loyal members of the A. P. A. come right out in the open and get their troubles off their system in a good straight-from-the-

shoulder fashion? Is it because they fear injury to their personal business or that the "invisible government," supposed to be dictating A. P. A. affairs, may in some way make things unpleasant for them? A review of the poultry journal files for some years past would seem to furnish ample precedent for substantiation of this assumption.

J. H. Drevenstedt, in *American Fancier* for October 20, has this to say concerning "A. P. A. Financiering:":

"The financial status of the American Poultry Association is evidently giving deep concern to some of its older and loyal members, judging by the following letter received several days ago from one of the old A. P. A. warhorses: 'Did you know that the Special Standard Reserve fund which was made up by setting aside 10 percent on all sales of the Standards, and (\$900) was used (by what authority) for current expenses? It makes me sick. Now they are starting in on the last of the funds that Bryant had put away on time deposits into five or six New England banks. At one time this was \$12,000 and now it is \$3,000, and that won't last long.'

"There was some informal talk at the Chicago A. P. A. meeting indulged in by several of the older members at which all agreed that no more money should be voted for anything, without first meeting with the approval of the finance committee, because, as expressed by a prominent official, the finance committee might just as well be a rubber stamp, for the reason that this committee, as constituted in the past, could not avoid O. King all bills for all kinds of expense, duly passed on the floor. The president could, of course, stop a whole lot of this extravagance, but seems to be unmindful of the fact that there isn't money enough in sight to run the A. P. A. another year, a member who put in four days at the Chicago meeting writes us, and adds: 'When I left I thought matters had been fixed to cut out president's salary, and all other expenses possible, and I don't know now who is responsible for continuing this expense.'

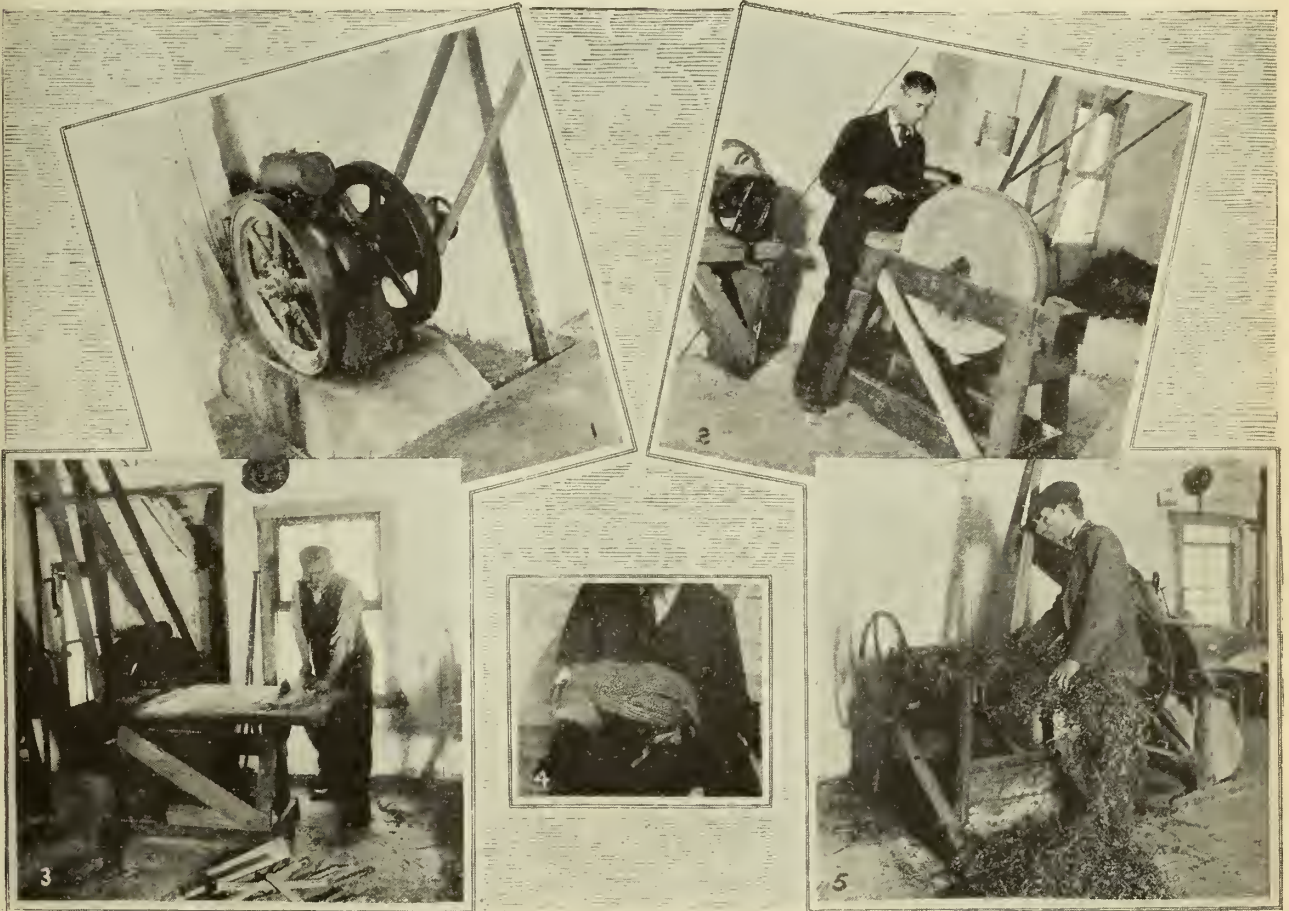
"The above remarks are but a part of the aftermath gleaned after the Chicago A. P. A. meet, but they clearly and unmistakably indicate the trend of thought uppermost in the minds of loyal members of the American Poultry Association."

When a man accepts compensation—a salary—for the performance of certain work, whether in general business or in an organization, it is pretty generally understood that he is expected to make good on the job or to retire and give someone else an opportunity to earn the money. In association

work it becomes the duty of an executive board to see that all salaried officers earn their pay, or to retire them and replace them with persons who can and will give value received. We confess that we have not yet discovered what the president of the A. P. A. has been or is doing to really earn his salary. We would like to be informed on the subject.

Here are some items from the itemized statement of the financial condition of the American Poultry Association covering the fiscal year expiring June 30, 1918:

1917.	
Sept. 27,	E. E. Richards, expense 42d convention.....\$ 49.14
Sept. 27,	E. E. Richards, expense for office of president for year and traveling expenses..... 346.19
Oct. 9,	E. E. Richards, special service rendered, September 23 to October 25, 1917..... 150.00
Oct. 20,	E. E. Richards, stenographic hire in president's office..... 50.00
Nov. 7,	E. E. Richards, telegrams, express and postage..... 12.73
Nov. 9,	E. E. Richards, special service rendered October 25 to November 25, 1917..... 150.00
Nov. 9,	E. E. Richards, stenography, October 25 to November 25..... 50.00
Nov. 26,	E. E. Richards, expenses, postage..... 28.10
Nov. 30,	E. E. Richards, special services rendered, November 25 to December 25, 1917..... 150.00
Nov. 30,	E. E. Richards, stenography, November 25 to December 25..... 50.00
Dec. 22,	E. E. Richards, expenses to Philadelphia and to Mansfield, Ohio..... 96.52
Dec. 22,	E. E. Richards, postage for month of November..... 18.50
Dec. 31,	E. E. Richards, special service rendered from December 25, 1917, to January 25, 1918..... 150.00
Dec. 31,	E. E. Richards, stenog., December 25 to January 25.. 50.00
1918.	
Jan. 25,	E. E. Richards, postage and express..... 25.37
Jan. 31,	E. E. Richards, special service rendered January 25 to February 25, 1918..... 150.00
Jan. 31,	E. E. Richards, stenog., January 25 to February 25.. 50.00
Feb. 23,	E. E. Richards, expense to Peoria, Ill..... 23.57
Feb. 28,	E. E. Richards, special service rendered February 25 to March 25, 1918..... 150.00
Feb. 28,	E. E. Richards, stenog., February 25 to March 25.. 50.00
Mar. 7,	E. E. Richards, office expense, postage and telegrams. 18.17



LABOR-SAVING DEVICES EMPLOYED ON THE BARRED ROCK FARM OF J. W. PARKS, BOX J, ALTOONA, PA.

(1) Five horse-power kerosene engine that furnishes the power for different labor-saving machinery. (2) The grindstone. No farm is complete without one, and no excuse for dull tools when machine is power driven. (3) Sawing outfit, where we rip our boxes in sections, and work out material for shipping coops, etc. The machine is equipped with a combination saw that will rip or cut crossways successfully. (4) Our peace-maker. We always keep a Guinea cock on hand to use in pens where we have a lot of surplus male birds, or when we break up our breeding pens and put all males together. We put the Guinea in with them and he takes care of all scraps. If you have a flock of hens that get lazy in winter, put a cross Guinea in with them. He will keep them stepping and increase their egg yield. (5) Cutting box. With this small power driven machine we make our own brand of short-cut clover. Chicken manure will build up any ground so as to produce clover, and a good supply of clover is essential to winter egg production and good colored yolks.



First Hen
Boston, 1918

ARE YOU READY?

Are you prepared to do your share

in replacing the world's poultry stock which has been depleted by the war? Are you going to get your share of the profit which will come to those who have the birds to supply this un-

precedented demand? After the war the egg-laying types will be in most demand. And no birds in the world are better layers than the Campines—and no birds are as beautiful. These two facts taken in conjunction produce the most desirable breed.



First Cock
Boston, 1918

"Homestead" THE VIGOROUS STRAIN Campines

are the most desirable representatives of this fowl. They are raised from our prize winners at the largest shows, and we rear them according to scientific methods in the most modern houses on the best of yards and range. No wonder

HOMESTEAD DOMINATES in the World of CAMPINES

Our stock is ready for delivery—full of health, vigor and quality. This year we have the finest flock we ever raised. Write us your needs in

SHOW BIRDS or BREEDERS

HOMESTEAD CAMPINE FARMS Box A WAYLAND, MASS.

TO OUR READERS.

Our subscribers are our friends and we use every effort to protect them in every way. We believe that every advertisement in this issue is signed by trustworthy people, and to prove our faith we will make good to our subscribers any loss sustained by virtue of their having purchased fowls or goods from one of our display advertisers.

All we ask is, that in ordering the fowls or goods, you mention to the advertiser that you saw the ad in American Poultry Journal; also that the purchase be made during the month or months in which the ad is inserted, and in case of loss notify us of the fraudulent misrepresentation of the advertiser, giving us full particulars as soon as it occurs. In all cases in writing to advertisers, say, "I saw your ad in American Poultry Journal."

March 30, E. E. Richards, special service rendered March 25 to April 25..	\$150.00
March 30, E. E. Richards, stenography, March 25 to April 25.....	50.00
April 30, E. E. Richards, special service rendered April 25 to May 25....	150.00
April 30, E. E. Richards, stenog., April 25 to May 25.....	50.00
May 1, E. E. Richards, office expense, postage, etc.	70.50
May 28, E. E. Richards, special service rendered May 25 to June 25.....	150.00
May 28, E. E. Richards, stenog., May 25 to June 25.....	50.00
June 29, E. E. Richards, special service rendered June 25 to July 25.....	150.00
June 29, E. E. Richards, stenog., June 25 to July 25.....	50.00

We do not question the legitimacy of the above items, but merely submit them as officially given proof that the president of the A. P. A. received a salary of \$150 per month, with an additional \$50 per month for stenographic hire, which money he collected in advance for "special services rendered." There are a good many members who would

Regal Dorcas White Wyandottes

are the most popular in America today, because they represent the ideal combination of utility and beauty. Fifteen years ago, exhibition qualities were considered of greatest importance, but believing that there would, in the near future, be a demand for a combination bird, I began trap-nesting,



First Prize Cock at Madison Square Garden, December, 1916

and in this way built up a strain invincible in the show room and at the same time compares favorably in egg production with any strain in the world. The tremendous demand for Regal Dorcas White Wyandottes has shown that I was right. In the official egg-laying contests, some of the highest records are being made by Regal Dorcas females. Dr. B. B. Edmonds of Kilmarnoc, Va., writes me as follows:

"I got from my pullet today her two-hundredth egg, exactly nine months and three days since she began laying. The pullets from the last setting of eggs are beauties. Hope I get another such layer. Hatched twelve fine chicks from the setting."

5000 COCKS, HENS, COCKERELS AND PULLETS FOR SALE 5000

SPECIAL—Cocks and Cockerels (choice breeding birds) \$8, \$10, \$15, \$20 and \$25. Hens and Pullets, \$4, \$5, \$8 and \$10.

Special Exhibition birds a matter of special correspondence.

100 acres devoted to White Wyandottes. My stock is all farm raised. Many birds now ready for show. Order at once and get first selection.

FREE—Send for 20-page Catalog

John S. Martin BOX 51 Port Dover, Ont., Can.

like to be better informed concerning the nature and detail of these "special services" for which the A. P. A. paid in advance.

According to the "summary of disbursements," President Richards' office expenses, fiscal year ending June 30, 1918, were as follows:

For special service rendered, ten months	\$1,500.00
Stenographic hire, ten months.....	500.00
Postage, telegrams, express, etc.....	240.31
Traveling expenses, 1917-18.....	120.09
Multigraphing letters	58.10
	\$2,418.50

Office and traveling expenses, 1916-17 346.19

What did the A. P. A. get for its money? What has it received for the very considerable expenditures under the present administration, and, more particularly, what has the association to show for the close to \$18,000 expended during the year ending June 30, 1918? We merely ask for information, at this time, for the inventory of possessions, as shown in the statement of financial condition, is not entirely satisfactory in more ways than one.

While the present constitution gives unusual power to the president during the period between meetings, and might easily give him control of the finance committee and the auditing of the books, thru control of one member, the same authority gives abundant power to the executive board to take full charge of the management of all business of the association and makes it responsible for the acts of officers. In the case of officers receiving salary for special work, or in the case of expenditures questioned by even one member of the finance committee, it would seem to be the duty of the executive board, as a whole, to make certain that salaried officers make good and to make a thorough investigation, and to take steps to safeguard the interests of the members of the organization who elected them to fill their important office. It isn't a time for letter writing and whispered confidences. If there is anything wrong with the finances of the A. P. A.—that isn't the result of the inadequate plan of organization and membership fees—it is clearly up to the executive board members to peel off their coats and gloves and wade into this matter with bare hands.

We are not prepared at this time to even pretend to have knowledge of what may be wrong with Association affairs, but where there is so much smoke there ought to be some fire, and a whole lot of members have been talking about smelling smoke for a long time. We would like to see them get right down to brass tacks. There are a lot of folks who seem to like to "make a holler"

Smith's White Leghorns

NOW OWNED BY C. R. HOPKINS, OSAGE, IOWA

THE business, good will and flock of White Leghorns of Eugene Smith, of Aurora, Illinois, has been purchased by me and this stock is now on my farm at Osage, Iowa, including many of the winners at Chicago and St. Louis. This is the strain that has produced more winners at Chicago shows during recent years than any other, and has given the greatest satisfaction among customers. The stock this year is even better than ever, and I am prepared to furnish you with winners or utility birds of this remarkable strain at reasonable prices. Address correspondence and requests for catalog to

→ C. R. HOPKINS, Route A2, OSAGE, IOWA ←

ROGERS' WHITE LEGHORNS

Buy Your Birds From Chicago Winners

The blue ribbon is placed on birds at these shows by men who know. My Leghorns won at both Chicago shows, Dec., 1917, and Jan., 1918. Illinois State Fair, Springfield, Aug., 1918—1st cockerel, 1st cock, 1-2-3 pullet, 1-2-3 hen (8 birds shown). Big sale of exhibition cockerels now on. Every bird guaranteed to please or money refunded. My 18-page catalog free. Send for it today. F. D. ROGERS, Douglas Road, Elgin, Ill.



SANDY'S
EGGS



RIBBONS



W. ORPINGTONS

April Hatched Cockerels and Pullets

Strong vigorous birds with correct Orpington type and plumage
COCKERELS, FROM \$3.00 TO \$15.00. PULLETS, FROM \$3.00 TO \$10.00
ONE AND TWO-YEAR OLD UTILITY HENS, \$3.00

Will take Liberty Bonds or War Savings Stamps
 My new catalog tells you about these profitable birds. It is free to all interested parties
R. E. SANDY Box 45 STUARTS DRAFT, VA.

Barred Rock OFFICIAL CONTEST RECORDS OF —MALES— 230 - 245 - 263

We offer five yearling cock birds out of hens with
 These hens are the three best in the famous pen 69, record for five pullets 1185 eggs, National Egg-Laying Contest, every pullet beating 200, also pen record best ever made there by 2600 birds of 47 varieties from 37 states and eight foreign countries. Sire of above birds out of a 260 record hen.

SANITARY FARM : : SAN ANTONIO, NEW MEXICO

SPECKLED SUSSEX BRED FOR QUALITY

My birds are the correct shape and color. They are from Madison Square Garden and Chicago Coliseum winners, and my system of trapnesting and marking each egg when laid, and hatching from only the best selected layers guarantees that they are good egg producers.

Show Stock : Breeders : Young Stock

can meet your requirements in any of the above lines. Write me your needs today and send for circular
T. CADWALLADER : : DOYLESTOWN, PA.

BRAUNTON LIGHT BRAHMAS

A few quality Cockerels and Hens for sale from top notch stock of this grand old breed. I will display at the Coliseum this month and will mate my winners for next season's egg trade. Better engage your settings early and avoid disappointment.

E. T. JOHNS 313 Eureka Ave. Wyandotte, Mich.

CARVER'S RHODE ISLAND REDS SINGLE ROSE

The color strain of America, bred on honor | EGGS for hatching from small special matings for big show quality. A few choice cockerels for sale.
A. A. CARVER Specialty Breeder Box A SEVILLE, OHIO

BUFF ORPINGTONS

Real High-Class Show Birds

are more numerous with me this season than ever before. You can't afford to overlook them if in need of a good bird or a full show string. I have pleased and benefited hundreds of others and guarantee to please you.

O. M. ABBOTT : : Box 10 : : WHITELAND, INDIANA



A Lady Beautiful Pullet

MYERS' Barred Rocks

Lady Beautiful Strain

Consistent winners for years at the big shows

Single Birds, Trios or Breeding Pens. Hatching Eggs

Write for Catalog

C. N. MYERS BOX A HANOVER, PA.

SAFE! SURE!

Let me send you my book, giving plans, description and details of the only really successful, simon pure, "Fresh Air House" yet devised. Easy to build or remodel. Comfortable alike summer or winter, rain or shine, blizzard or calm. Protect your birds from dampness, drafts and exposure. Neighbors all around me have adopted this house. Thousands of satisfied and enthusiastic customers in all parts of the world.

Merrill, Oregon, October 5, 1918.

"Your house is the best for this climate. In fall and spring 'hot spells' are followed by cold, wet and windy weather, causing colds and roup. I have had no trouble since adopting your house. It is easily adjusted to meet these trying changes." A. E. SUTHERLAND.

Write your name and address plainly, enclose a dollar bill or your check for \$1.10 to cover war tax and exchange, and book containing seven plans and illustrations of this valuable discovery will be sent you by return mail.

S. K. BURDIN, Suite 16, 104 Stibbard Ave., Toronto, Ont.

Palmer's Barred Rocks

are recognized throughout the world as one of the supreme strains of standard bred poultry. Our 36 years experience has developed this strain almost second to none in both the utility as well as fancy standpoint. If you want to win, write us for prices; we can furnish you cocks, cockerels, hens or pullets, pens or farm flocks, for egg purposes or for the hottest of competition, at \$5 to \$25 each and up. We can win for you and please you and guarantee to do so. Write today to

D. F. PALMER & SON, Box 35, Yorkville, Illinois
The oldest and greatest winning strain in the central west

ASTONISHING EGG PRODUCER

A scientific germicide called "OCULUM" has (for 12 years) produced MANY MORE EGGS, SUMMER AND WINTER, in all parts of the United States and many foreign countries, without extra feed. It takes only one drop a day to each hen in the feed. William Shinn, Manitoba, Can., writes: "I fed 'OCULUM' last year to 10 W. Leghorns; I got 208 eggs every month for 10 months (November to September)." We'll give you \$5 to beat it WITHOUT "OCULUM." Let us mail you FREE an "OCULUM" booklet full of testimony from Hawkins, Fishel and other nationally known leaders. This booklet tells how to cure Roup, Cholera and W. Diarrhoea with "OCULUM" and how to GET EGGS.

Bottles, 50c and \$1.00. Money back if you want it. Trial bottle, 10c postpaid.
"OCULUM" CO. Box B SALEM, VA.

Barred Rocks

First Hen at Dayton, Columbus and Springfield. Three of Ohio's Best Shows.

Also 14 other prizes and specials. A limited number of cocks, cockerels and hens. Write LEIGH BICKETT -- R. R. 9 -- XENIA, OHIO

MINORCAS Giant Single Comb BLACKS

Have again proved their superiority from coast to coast for me and my customers. Why not place your order now for the coming shows—or buy your next year's breeders. Birds bought now will more than double in value by spring.

JOHN L. BROWN 65 Indiana Ave. ANDERSON, IND.
Get the American Poultry Journal 3 years for One Dollar

about association matters, with which they are dissatisfied, but who confine their activity to confidences and seem too shy to deliver the goods when there is any probability of publicity for them in the matter. President Richards states that he is not afraid of honest criticism so far as his administration is concerned, but we still remain uninformed as to what he has really accomplished for the A. P. A. Now, if any members have anything on their system that will tend to improve A. P. A. affairs, or which can be considered as constructive criticism, or honest criticism of mismanagement which calls for a remedy, or suggestions as to how the association can shake off the "sleeping sickness" and really accomplish something for the poultry industry, we wish that they would stand right up meeting and "shoot." We would be glad to witness a little real action—not all hot air—even if not wholly in accord with our own views, but we are certainly getting good and tired of receiving alleged information which is conspicuously labeled "personal and confidential."

We understand that the committee on constitution will eagerly welcome suggestions concerning the proposed constitutional changes and reorganizations of the A. P. A. That is all very good so far as it goes. Members should all do their bit or hereafter hold their peace. Meantime there seems to be abundant law in the present constitution and by-laws to answer all present needs, even tho the constitution is frequently ignored and now and then invoked to choke off progressive action, and it would seem that the executive board should be able to find a way to accomplish all that may be necessary in control of business and finances of the association.

A. P. A. Money Matters.

IN A long article in the November issue of *Everybody's Poultry Magazine*, under the caption "A New Constitution for the A. P. A." Charles D. Cleveland says:

"Everyone knows that, generally speaking, the more you tinker with a constitution the worse you are off, and since the A. P. A. has very recently gone to the labor and expense of redrafting its old articles, there must have been some very strong reason why a new committee was asked to undertake a similar task. There is certainly more than one member of the association who will be able to give the correct answer to this question, and the answer is MONEY. It has been perfectly evident to those who have had any intimate connection with the A. P. A. that the attempt to carry on its business under the scheme of \$10 life membership was really absurd. Mathematically it could not and did not work out."

That is one A. P. A. difficulty which AMERICAN POULTRY JOURNAL has pointed out on numerous occasions. There cannot be any change in constitution until after the new committee has reported to the annual meeting in August, 1919, nearly nine months hence. In the meantime, what about A. P. A. money matters? From financial statements including fiscal year ending June 30, 1918, as published, and one recently rendered

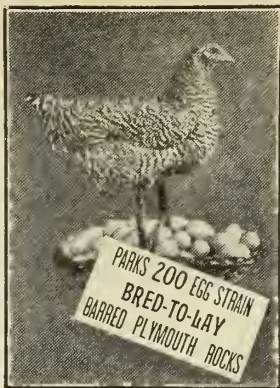
Brown
Anconas
A New Variety
Send for Catalog
I. H. MURRAY
11337 Longwood Drive, Chicago, Ill.



The **Cornerstone**
of **Success**

→
Cockerels

NOW IS THE TIME
TO ORDER



1889 ← → 1918

High Normal
Layers Along With Heavy Winter Production

←
Cockerels

Every Year We Have to Return the
Money of Those Who Are Too Late

Don't put it off too long and risk disappointment. You have been thinking for a long time that you would order a few cockerels of

Parks' Bred-to-Lay Barred Plymouth Rocks

but have kept procrastinating. **Do it now.** Put some of this heavy-laying blood into your flock and get those extra eggs that mean **profit.** Parks' Strain is the daddy laying strain of them all—they can't help but lay—it has been bred into them for 28 years by three generations of the Parks family. They have been carefully pedigreed and selected for eggs, and have outlaid over 2,600 birds in five Missouri Laying Contests. They "come back" year after year and win where others seldom make a second winning—and they win, not only in the laying contests, but in the egg and exhibition shows. The wisdom of our breeding is proved by over 21 pounds of favorable reports from satisfied customers in all parts of America and a great number of foreign countries.

*Book Your Egg Orders Now and be sure of delivery when wanted.
Cockerel and Stock Circular sent Free.*

J. W. Parks

Box J

Altoona, Pa.

ROBADEL POULTRY
FARM

Guaranteed Winners for Your Show

Single Comb White Orpingtons Single Comb Black Minorcas
Single Comb Buff Orpingtons Single Comb White Leghorns

OUR winnings at the last New York State Fair prove that we can deliver the goods. All sales made by us, whether of stock or hatching eggs, are positively guaranteed. **Go into your show and win.** Get the satisfaction and profit of having the ribbons placed on your coops. Robadel birds will do it for you. Remember, they were bred under the personal supervision of

CHARLES HUBBARD General
Manager
(Formerly Foxhurst Farm, Lime Rock, Conn.)

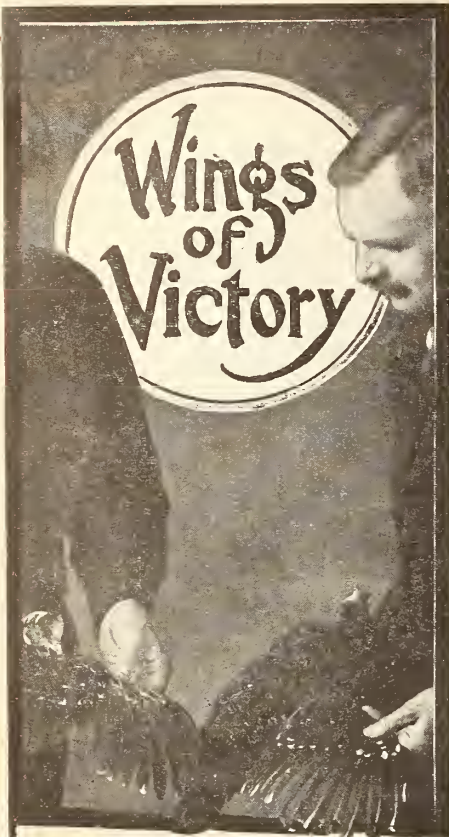
which guarantees that they are right up to the minute. Mr. Hubbard's success as a producer of prize winners is well known the length and breadth of the land.

HATCHING EGGS

Don't delay your order for hatching eggs this year. The demand will very likely exceed the supply, and late comers will be disappointed. You want the best—here's the place to get it.

If interested, write us

ROBADEL POULTRY FARM, Cos Cob, Conn.; A. C. ROBERTSON, Owner



Wings of Victory

That's What I Call 'em, John!

They surely are helping carry our nation to victory. Eggs are splendid food—and no better producers of big white hen fruit have been discovered than

Sheppard's Anconas

Keen winter layers they are, too!

The vitality and habits of the "Famous" strain of Anconas is such that they persist thru the longest and coldest winters. Hundreds of families are going to start flocks **this month**—and every one will be helping win the war by producing their own food. With conditions as they are, I anticipate fully five hundred more requests for my free book than I had last year this time.

RESULTS show that my Anconas are great layers.

RESULTS prove that they are matchless prize winners.

RESULTS demonstrate them the most economical all-round bird for the home flock and commercial egg plants.

I'll send this book to all asking for it or until the present edition is exhausted.

H. CECIL SHEPPARD

Box M-2, Berea, Ohio

for month of October, it is apparent that the A. P. A. funds are low and that the organization is spending money faster than it is taking it in. How long can that be kept up without running the A. P. A. on the rocks of bankruptcy?

According to the statement of finances for October, the A. P. A. on October 31, had a balance in Irwins National Bank, Columbus, Indiana, of \$2,000.12 and in the Mansfield Savings Bank, Mansfield, Ohio, a balance of \$312.32, or a total of \$2,372.44 in available cash on November 1. The same statement reports the total Standard Reserve Fund bearing interest Oct. 31, 1918, at \$342.52. It has been pointed out that during the business administration of the late President Bryant, the Association at one time had a Standard Reserve Fund of \$12,000. This certainly has sadly dwindled. What has the A. P. A. got to show for it?

There is no satisfactory statement of the assets of the A. P. A. other than the cash reported in banks, as above. We have not been able to get any figures on the liabilities of the Association. What obligations are outstanding against the A. P. A.? How much does it owe? There are certainly some liabilities which will run into considerable money. Of course during the next two or three months some money will come in for memberships, Standards, supplies, books, etc., but at the present rate of spending there will not be funds enough to carry the organization thru a "long dry summer," until the tinkered and rejuvenated constitution provides for a way to get funds more readily.

According to the October statement President Richards is still drawing his salary, \$150 per month for "special service rendered"—but paid in advance—and an allowance of \$50 per month for stenographic hire. It certainly is unusual, to say the least, to collect in advance for "special service rendered." Among the items of expense for October are:

Oct. 1, E. E. Richards, office expense, for September, postage, telegrams, etc.	\$ 16.68
Oct. 1, Torch Press, Plymouth Rock Breed Book, circulars and printing for president's office.....	28.50
Oct. 1, Torch Press, balance on acct. War Books	201.00
Oct. 17, E. E. Richards, postage, etc....	9.41
Oct. 17, General Printing Co., envelopes for president.....	10.00
Oct. 17, Torch Press, president's office expense, printing, etc.....	17.75
Oct. 17, E. E. Richards, expense to Kansas City	60.59
Oct. 31, E. E. Richards, special service rendered, October 25 to November 25, 1918	150.00
Oct. 31, E. E. Richards, stenographic hire, October 25 to November 25....	50.00

It has always been understood that Mr. Richards is engaged in the publishing business, conducts a poultry journal



Longfield R. C. Reds

Now ready with a choice lot of early hatched birds for the Fall and early Winter Shows. Bred from and in line with the birds that have won more than half of all First Premiums on R. C. Reds at the GREAT CHICAGO COLISEUM SHOW since 1911. Also a few choice adult birds. Priced reasonable and shipped on approval. Write for catalog.

LONGFIELD POULTRY FARM
Box 321, BLUFFTON, IND.

LORD FARMS

Single Comb White Leghorn Cockerels

All bred from 200 to 288-egg stock. We have no other kind for sale. Straight American bred Leghorns—no English blood. These cockerels now have several generations of 200-egg bred blood back of them—just the kind you need to increase your stamina, vitality, egg production and general good looks of your flock.

Good Breeding Cockerels Only \$5.00

Extra Selected Birds, \$7.50, \$15

Every bird guaranteed satisfactory at time of sale or birds can be returned at our expense.



BABY CHICKS FOR 1919

If you are going to purchase anywhere from 500 to 5,000 Baby Chicks next season you should be looking around to get your order placed immediately. Remember there are not half the breeders in existence today there were a year ago, and the demand next year will be two to five times as large as last season. A great many will have to go without, so place your order immediately, before our books are filled for the early hatches.

Our reputation for putting out fine healthy stock of grand laying quality is not equaled by any other farm or hatchery in the eastern states. Write us immediately for prices, etc., for next season. Remember we have only one breed—

Single Comb WHITE LEGHORNS

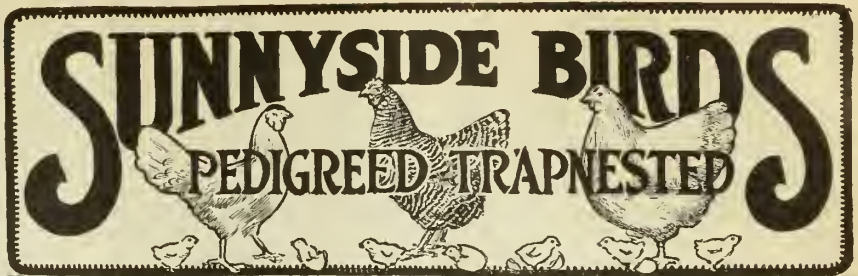
LORD FARMS
Incorporated
Methuen Mass.

of his own, and does not give his entire time to the "special service rendered" the A. P. A. for which he collects a comfortable salary in advance. Without any argument as to the value of the president's services, or whether he should receive a salary or not—tho such a salary has not been the custom in the past—it would seem that, with the Association funds at low ebb, the members, and particularly the Executive Board, should insist that expenditures be cut down to the lowest limit possible, and that the membership be given a full and detailed account of what it has received for its money, what the assets and liabilities of the A. P. A. are, and insist that full value be received for every A. P. A. dollar spent from now on.

The Torch Press, by the way, is located in Pres. Richards' home town. We do not assert, nor do we assume, that there is anything more than carelessness and extravagance the matter with A. P. A. expenditures, but there certainly is dissatisfaction among prominent members concerning Association expenses. The method of securing money for A. P. A. work is not adequate, and from such financial statements as have been submitted there does not appear to be money enough in sight to run the organization thru the year. We feel certain that members would rally with prompt and substantial subscriptions to help the Association carry on if they were satisfied that the A. P. A. would hereafter have an efficient business administration. What do the members and the Executive Board intend to do about it?

Baby Chicks.

WE BELIEVE that the coming season holds unusual promise for those in the baby chick business. In spite of war conditions and difficult transportation last season, baby chicks made good. Parcel post deliveries proved to be satis-



The best part of a lifetime's experience and effort is given to you for nothing

It goes with every "Sunnyside" bird. For 29 years they have been trapnested and pedigreed and none but those with the highest records have been used for breeding purposes. "Blood will tell," and the years of effort tell in these birds. They are profitable layers. By profitable layers I mean birds that lay enough eggs above the labor and cost of keeping them to show a good profit. The past couple of years have been hard sledding for poultrymen, and none but the fit have survived. Sunnyside birds have more than paid their way, and left a profit, and now that better times are in sight, there is no better investment. Of course you like to keep poultry, but where there is no profit there is no pleasure. Keep Sunnyside fowls and enjoy both.

THEY ARE EXCEPTIONAL WINTER LAYERS

They are bred and raised in the vigorous climate of Vermont, which produces strong men and vigorous chickens, so cold weather is no novelty to them. Take a look at the prices below. Nothing extra added for the years of labor back of them.

YEAR-OLD BREEDERS FOR FOUNDATION STOCK

Barred White Rocks, Brown and White Leghorns, White Wyandottes, R. I. Reds, from trapnested stock with records of 180 to 200 eggs, each, \$3.00; 210 to 249 eggs, each, \$4.00.

12-WEEK-OLD PULLETS FROM \$1.50 UP

Grand Cocks and Cockerels out of record dams at half value

16 to 20-week-old Pullets, \$3. Yearling Reds and Barred Rocks, "state-tested" pedigreed stock, \$3, in lots, with pedigrees. 2400-Egg Caudee Incubator for Sale Cheap.

Special Offer—100 White Wyandottes, state tested, with records, \$300 for the lot

Order direct from this ad or send for catalog

Sunnyside Poultry Farm R. C. Blodgett, Prop. **Bristol, Vt.**
Box 1002

DARK CORNISH

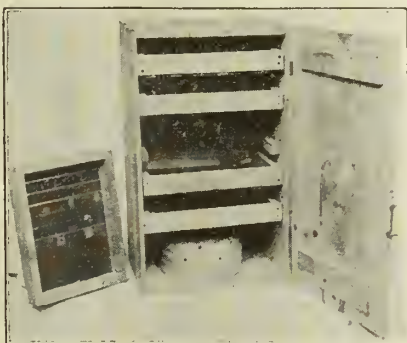
Winners at MADISON SQUARE, CHICAGO and all prominent shows. First cockerel and first cock at Madison Square; also first hen by a customer. Four firsts at Coliseum.

Can furnish WINNERS for ANY SHOW.

FLOYD P. SCHUYLER - SAVANNA, ILLINOIS

You Can Get More Eggs!!

WATER Over 90% WATER
of the Egg is WATER



Shows Home-Made, Low-Cost Oat Sprouter, Using Little Putnam Stove.

Therefore to make eggs and lots of them in WINTER TIME your fowls must have water to drink and plenty of it. You simply MUST keep UN-FROZEN water at all times before them! ONE COLD DAY, with the water frozen and therefore inaccessible, may STOP your egg production FOR A MONTH.

A LITTLE PUTNAM STOVE will keep the water unfrozen at ALL TIMES. It holds three pints of oil and burns A MONTH with one filling. (Patented principle.) Requires absolutely NO ATTENTION, except to be filled; never needs trimming.

SPROUTED OATS To obtain the greatest egg yield you must use some form of LIVE GREEN FOOD that is abundant in vitamins, so the scientists and investigators HAVE PROVED. Sprouted oats furnish food of this character in a LOW-COST and convenient form.

THE LITTLE PUTNAM STOVE, used for this purpose, gives you the cheapest and easiest-to-operate, home-made OAT SPROUTER in the world, and it can be made in a single evening by anyone. No tools are required but saw and hammer. The total cost, exclusive of the Little Putnam Stove,

will be less than 50 cents. I shall be glad to send you FREE my easily followed plans for building this Oat Sprouter, also telling you how to use the Little Putnam Stove to keep the drinking water from freezing in COLDEST WINTER WEATHER. Descriptive Circular FREE on request. PRICE OF LITTLE PUTNAM STOVE \$2.00 BY PARCEL POST, prepaid to any address. References, Editor of this Journal.



Materials Required for Good-Sized, Home-Made Oat Sprouter:

- 1 Rubber Shoe Box.....\$.15
- 1 Shoe Box..... .15
- 1 Pair 1-inch Light Butts }..... .05
- 1 Gate Hook..... .05
- 1 Shallow Tin Pan..... .05
- 1 Little Putnam Stove..... 2.00
- ¼ lb. Shingle Nails..... .01
- ¼ lb. Nails 1½ Inches Long..... .01
- Total.....\$2.42

I. PUTNAM

Route 1205

ELMIRA, N. Y.



PAPE Single Comb BLACK Minorcas

are acknowledged 100% good in prolific production of GLORIOUS LARGE WHITE EGGS, most delicious as a table fowl, and DEPENDABLE PRIZE WINNING QUALIFICATIONS.

Investing in layers and breeders now, and especially in COCKERELS at introductory prices that will improve size and egg production of your fowls, is good business. Our marvelous 1918 hatched and yearling EXHIBITION STOCK insures Championship honors and eventually top-notch prices for your surplus stock and eggs. State requirements, please. Catalog free.

Charles G. Pape, Box 174 Fort Wayne, Ind.

Funk Egg Farm Cockerels

S. C. W. L. TOM BARRON 1918 hatched males from my full blood pens, ready for delivery after September 1st. All these birds are from HIGH EGG RECORD TRAP-NESTED females. Prices \$2.50 up. Write for free booklet giving prices and description for all breeding stock.

FUNK EGG FARM

LYLE W. FUNK, Owner

Box 38 BLOOMINGTON, ILL.

World's Greatest Layers

S. C. W. Leghorns W. Wyandottes
S. C. R. I. Reds Buff Orpingtons
\$5.04 PER PULLET in 5 winter months that's the prize-winning record for value of eggs laid by one hen of 6 Leghorns at Leavenworth in the severest winter known. Our champion pullet No. 1104 laid 28 eggs in coldest January in 98 years; our pen of five Leghorns laid 105 eggs same month. *Merely another proof that our perfected OTHER* *English 200-Egg Strain leads in every competition. OTHER RECORDS: 294 eggs in 339 days laid in last N. A. Egg Contest by our World's Champion Wyandotte, beating all entries of all breeds. First Prize Leghorns N. A. Contest, 5 hens laid 1139 eggs; Reds 1st prize, 6 hens laid 1045 eggs; Wyandottes, Missouri Egg-Laying Contest, 10 hens laid 2005 eggs. Most profitable poultry known—cockerels, pullets and hens from champion pens. Write today for book, "Story of the 200-Egg Hen". Price, 10c, refunded on first order. PENNSYLVANIA POULTRY FARM, Box A, LANCASTER, PA.*



Catalogs in Colors



FOR BREEDERS OF

S. C. W. Leghorns and Barred Rocks
Would you like to have a fine catalog of your own, hand-somely illustrated in colors, but find the cost too much? If so, send for a sample and prices of my special catalog in colors, mentioning which of above breeds you raise. Prices from as low as \$7 up. Very prompt service.

THOMAS NASH, 523 Plymouth Ct., Chicago, Ill.

GENSCH'S Single Comb White Orpingtons

Sensational Winners at Chicago Coliseum,
Grand Breeders—Half Price

A good chance to get the best cheap.

F. M. GENSCH - OMRO, WIS.

White Orpingtons

Champions of New England.
Winners at Boston and largest shows past five seasons. Fine show stock and breeders for sale. Send for list.
JOHN R. JOHNSON, South Wadham, Maine.

STANDARD FOWLS.

The Recognized Headquarters for High Class Poultry. Ducks, Geese, Guineas, Games, Turkeys, Phasianos, Yokohamas, Peafowls, Bantams. All standard varieties. Stock for sale. Satisfaction guaranteed.
F. C. WILBERT & CO. Grand Rapids, Mich.

Mention the American Poultry Journal when writing to advertisers.

factory beyond the most optimistic expectations.

We look for an early start in baby chick orders and for a good demand for chicks out of good Standardbred stock of the leading popular breeds and varieties.

Those who get out and hustle for orders with the right sort of advertising, and deliver the goods in real quality-bred chicks, ought to do a "regular land office business."

Get your chick orders in early. Just as soon as it becomes better understood among the breeders we believe that there will be a big call for custom hatching or hatching to order by well-equipped hatcheries. This plan has worked well in New England. It is a very satisfactory method of getting out early chicks to send eggs to a hatchery, have them incubated by a skilled operator, and receive at moderate cost in due time a nice lot of strong, sturdy, vigorous baby chicks. Hatching or having hatched special lots of eggs for customers and supplying them with the baby chicks, is another plan of custom hatching that works well and will win favor.

Christmas Gifts.

ARE you still thinking about a Christmas gift for that boy or girl of yours? Why not make it a nice breeding pen of Standardbred fowls? For many a boy or girl there is nothing that would give more lasting enjoyment, besides furnishing useful and remunerative home employment.

Food is needed. More food will be needed, and we shall need all the food that can be produced before we have another harvest. It will be a long time before food conditions are normal again. Get the boys and girls interested in poultry. Give them an opportunity to produce poultry and eggs. Later on, when the season opens, encourage interest in the home garden.

For those who have already started with poultry, a fine breeding specimen, needed poultry equipment, an order for eggs for hatching or for baby chicks, will make pleasing and useful gifts. Portable houses may be had in a wide variety of sizes and types to suit all purposes, if there is no suitable poultry building on the home place.

If seeking low cost gifts for young or old, consult A. P. J.'s list of useful poultry books. Or send AMERICAN POULTRY JOURNAL as a lasting Christmas remembrance, one year—twelve monthly issues—for 60 cents; a useful reminder every month for three years—thirty-six monthly issues—for one dollar. For City of Chicago, Canadian, and foreign rates, see top of first editorial page.

Cock Crowing Forbidden.

THERE is a strange inconsistency about many city ordinances. We have a superabundance of fool laws and foolish lawmakers, so much so that many municipal laws are inoperative and dead, to all intents and purposes, unless resurrected by some person or persons with an ingrowing grouch.

The city ordinance, in force in many

Special Offer for a Dime PLANS: How to build Beck's Economy Warm-Floor System Brooders. Valuable information regarding chick feed and feeding first ten weeks. Send for them today. R. L. BECK, Sullivan, Wis.

Get High-Priced Winter Eggs

COLLINS' OAT SPROUTER
doubles egg yield, cuts feed bill, makes hens healthy. No dirt, no trouble; set beside stove, furnace or in sunny window.



Popular Size, 8 pans - - 11 x 15 in., \$4
Backyard Flock, 5 pans - 11 x 15 in., \$3
Big Business, 8 pans - - 11 x 32 in., \$7

We deliver West of Miss. add 50c. West of Rockies add \$1

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saves you feed and time; keeps hens active. Bird and rat proof. Simply cut hole in worn-out pail, can, box or bag, and attach. Only 50c. ordered with Sprouter. Alone, add 10c. for P. P. Egg Testers—Oil, 35c; Electric, 45c



GUARANTEE—Order Sprouter, Feeder and Tester now. Use 10 days. If not the grandest things you've used, return. I'll refund your money.
Dealers & Agents Wanted. Circulars & electros furnished
W. H. COLLINS, 20 G. Harrison St., NEW YORK

Aid Winter Egg Yield

Make more profit from your chickens, and with less trouble, with an

OK Sanitary Non-freezable CHICKEN WATERER

Prevents disease and frozen wattles. Keeps water at the right temperature in summer and in 40 degree below zero weather. Non-freezable. Lasts a lifetime. A money saver and a time saver for the chicken raiser. Inexpensive to operate. Easy to clean. Guaranteed. Made in three sizes.



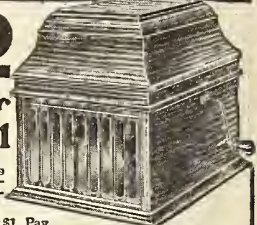
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Write Today For Our New Edison Book. Send your name and address for our new book and pictures of the New Edison Amberolas. No obligations.
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with our marvelous more-egg tonic. Recommended by Government experts. Tones up the entire flock. Makes every hen lay more eggs. "Cannot be improved upon," says R. L. Putins of Kentucky Experiment Station. "We used it with very good success," R. R. Harinas, New Jersey Experiment Station. Send \$1 for 100 tablets—Our Guarantee of Big Profits or your money back is endorsed by million dollar national bank. Send for poultry booklet, Stock Yards Veterinary Laboratory, 177 Laboratory Bldg., Kansas City, Mo., U. S. A. Dealers wanted everywhere.

EDITOR WOODALL SPEAKS RIGHT OUT ABOUT EGGS

In the last issue of POULTRY NEWS he says, "If hens WON'T lay, MAKE 'em lay," and tells of a very successful method of wonderfully increasing egg production. If our readers QUICKLY they can obtain a FREE copy of this splendid paper containing this valuable article. Address, POULTRY NEWS, 624 Globe Building, Minneapolis, Minn.

MILKOLINE FOR POULTRY

It is made from Buttermilk, Modified

People who feed it write us letters like the following:

"I have fed Milkoline for one and one-half years to a flock of 2,500 hens and I find the following to be true:

1st—In former years, worms in poultry has been a source of very considerable loss.

2nd—My average mortality per year with laying hens was 18 percent; last year the mortality was $8\frac{1}{3}$ percent.

3rd—Last year the lay was $147\frac{1}{5}$ eggs per hen. In my ten years experience in the poultry business the best previous year's lay was 142 eggs per hen.

In my opinion, the greatest benefit derived from feeding MILKOLINE to laying hens is the splendid health in which it keeps the flock, thereby preventing disease and derangements of all kinds."

Yours truly,
JAS. E. KEYES,
Box 123, Petaluma, Cal.

But Why Say More!

If interested in "More Eggs" and Healthy Poultry, write for booklet and full particulars.

Milkoline is made in one of America's largest and cleanest creameries from Pure Modified Buttermilk. Not a drop of water do we allow to get into the Buttermilk that Milkoline is made from. You add the water when you give it to your poultry—50 parts water to one part MILKOLINE.

Trial Gallon, prepaid	\$ 2.25	5 Gallon Keg	\$ 7.50 at Creamery
10 Gallon Keg, at Creamery	12.50	32 Gallon Barrel	32.00 at Creamery

Order direct from this ad. Send your order to our nearest distributor or direct to us

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A long-felt want for the hog raiser as well as the poultryman. Keeps young pigs and hogs toned up so that they can resist disease, take on weight quickly and develop rapidly.

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You may ship me gallons

MILKOLINE. I enclose \$

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Ideal Aluminum



LEG BANDS for **POULTRY** and **PIGEONS** are the acknowledged leader. Firmest and most secure lock. **GUARANTEED** to stay on. Price, 12 for 15c; 25-25c; 50-35c; 100-65c; 250-\$1.50; 500-\$2.75; 1000 \$5.25, postpaid. Price list and sample, 3 cents.

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Large printed numbers, bright clear colors—Red, white, blue, green, yellow. Made of celluloid and aluminum. Adjustable. 12 for 35c; 25-65c; 50-\$1.25; 100-\$2.25; 200-\$4.00. **Victor Sealed Band**—12 for 40c; 25-75c; 50-\$1.50; 100-\$2.75. Pliers 60 cents.

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Rhode Island Red Cockerels

from prize-winning stock. Satisfaction guaranteed or money returned.

\$7 PER BIRD

MOSCOW FARM
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WARNOCK'S S.C. Brown Leghorns

are rounding out in fine shape.

Choice Cockerels This Month

in either Light or Dark Brown

\$5 Each

Buy now and get the pick; also one cock and 20 hens Light Brown at a bargain, quality considered.

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ARLINGTON REDS

Single Comb Rhode Island Reds only.
Second Display New York State Fair, 1 17
Third Display Madison Sq. Garden, 1918.

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Mention the American Poultry Journal when writing to advertisers.

of our cities, which forbids the keeping of crowing cocks is certainly foolish enough to merit immediate repeal. Poultrymen ought to put up a vigorous fight against it. Anyone may keep a barking dog, a yowling cat or a screeching parrot, but it is a crime, in these cities of highly sensitive nerves, to keep crowing cocks or cackling hens.

It certainly is strange how high-strung and sensitive, even irritable, are the nervous systems of some of our city folks. They are immune to the thousand and one city noises, but the crow of the cock upsets them completely. Somebody ought to wrap these poor nervous souls up in cotton batting and pack them away safely where they cannot be disturbed by lowing cattle, the music of the poultry yard, or the songs of birds. Of course they can keep a phonograph going all night, make the small hours sleepless with ragtime on a player piano, dance until morning to the ear-bursting din of the jazz band, sleep peacefully thru the clatter of fire apparatus and ambulances, find sweet solace for their tired nerves in the grind and bang of flat-wheeled trolley cars, and the myriad of other noises of the town, not to forget the barking of dear little Pomeranian "Fifi," the thousand-dollar toy, when it yelps for attention at all hours—but such common noises as the crowing and cackling of productive, useful fowl, oh, dear me! such nerve-racking noises must be forbidden under penalty of the law. It is a wonder that such folks have the nerve to eat eggs for breakfast or to dine on chicken.

The ordinance against keeping crowing cocks works a hardship in many cases. It is an act directly in opposition to increased food production and food administrators everywhere ought to see to it that the ban on city poultry keeping is lifted. Here is a case where it works against an earnest beginner who has the makings of an enthusiastic poultry breeder and producer of necessary foodstuffs. There are thousands more like him.

New Haven, Conn., Oct. 28, 1918.
Mr. Editor:

Please tell me if splitting a rooster's tongue will make him stop crowing. If so, kindly tell me how to perform the operation. The man I bought my chickens from in the spring told me when I got a good rooster from the chicks he would split his tongue for me, but he has been drafted, so I am at a loss to know where to have tongue split. Everyone I ask about it laughs at me and says he never heard of it. Does splitting the tongue affect the breeding? I have a trio of White Wyandottes purchased from John S. Martin, Port Dover, Canada, and do not wish to injure the male as a breeder. *I live in the city and am not allowed to keep a rooster that crows.* But think I can get a lot of enjoyment out of mating up my own pens and hatching my own chicks. I have all my chickens leg banded and trap nests installed and wish to carry on line breeding and work for a heavy-laying strain which I hope to produce if I can find some way of keeping the males from crowing.

G. A.

We do not know whether or not splitting the cock's tongue will prevent crowing. The operation is not necessarily cruel or difficult; the free part



200 to 288 Egg Line Cockerels and Hens

150 S. C. White Leghorn cockerels, 236 to 288 egg lines. May 1st hatch, from large eggs, \$2.50 each; pullets \$3.00 each.

200 Rose and S. C. Brown Leghorn cockerels, \$2.50, \$3.50 and \$5.00 each; all of 200 to 286 egg lines. Large egg strain. Hens \$3.00 each.

Rose Comb Brown Leghorn cockerels of 254 egg hens, \$8.00 each.

Barred Rocks—270 egg line.

S. C. Reds.

Catalog

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Box 70

POTTSTOWN, PA.

Jacobs' Single Comb White Orpingtons

Again Win Their Share at the Indiana State Fair

Winning

1st Pen, 2d Cockerel. 2d Pullet, 3d Hen

A fine lot of youngsters maturing. Write your wants to

Frank W. Jacobs
2027 W. NICHOL AVE., ANDERSON, IND.

HIGHEST SCORE EVER WON

100

Envelopes, 3 1/2 x 6 1/2 inches, an extra strong, thick, smooth, slick, white writing face, and 100 Letterheads, 8 1/2 x 11 inches, heavy, hard, smooth, slick, pure white writing paper, all artistically printed and illustrated with latest new Standards of your breed for only \$1.00. Express charges paid by me. Better printing for the price was never done. No order less than \$1.00 filled. Name your Express office. Cards, tags and egg labels same price as above.

Address, J. R. HUDSON, Hardin Springs, Ky. We have saw samples of Mr. Hudson's printing. It is very nice; he is perfectly honest.—EDITOR.



The "Best Yet" Aluminum Leg Band

cannot come off. Five sizes, pigeon to turkey. State breed, 12, 15c; 25, 25c; 50, 40c; 100, 75c. Celluloid Leg Bands—Red, Green, Amber; Pink, Black, White, Yellow, Light Blue, Dark Blue. Pigeon and Baby Chick sizes—12, 10c; 25, 20c; 50, 35c; 100, 50c. Poultry sizes, 12, 15c; 25, 30c; 50, 50c; 100, 80c. Circular free.

Aluminum Marker Works, Dept. J, Beaver Falls, Pa.



Colored Big Double Number Poultry and Pigeon Bands; New coil Baby Chick Bands—not numbered. 12 colors. Try the modern way, you will like them. Very efficient. SAMPLES FREE.

ARTHUR P. SPILLER Box A Beverly, Mass.

White Wyandottes

Buy your cockerels for next spring while you can get a good choice.

Some as low as \$5

MILLS CREEK POULTRY FARM - Eagleville, Ohio
W. J. FORREST, Prop.

of tongue may be quickly slit lengthwise with a sharp knife or scissors. We never tried it. Unless the bird is unduly mutilated it should not interfere with his breeding ability. If he is so cut that it seriously interferes with his eating or causes him much discomfort, it will ruin the bird. If any of our readers know how to prevent a cock from crowing we will be very glad to pass along the information.

It is difficult for us to understand how any human being can get into such a condition that the crowing of the cock becomes an unbearable disturbing factor. We have dozens of cocks crowing on our farm most of the time, we seldom hear them unless we listen for the sound. To us the crow of the cock is both welcome and musical. We like to hear some lusty male stretch his lungs in a long loud call and to hear the answering voices from neighboring flocks. The sound has a beauty all its own.

There is an interesting classical legend about the origin of morning cock crowing which has been handed down by the ancients. Here it is:

Mars, during his amour with Venus, stationed at the door a youth named Alectryon to watch against the approach of the sun. The youthful sentry fell asleep, and Apollo came and discovered the lovers, who were exposed by Vulcan, in each other's arms, before all the gods. Mars was so incensed that he changed Alectryon into a cock, who, still mindful of his neglect, early announces the approach of the sun.

Boost Your Breed.

MR. BREEDER, you are letting slip some of your best opportunities for better business. There are thousands of beginners and near-beginners who are thirsting for just the sort of information you can give. They know about Standardbred poultry by hearsay, largely, but they are interested. They are beginning to read the poultry papers. They are beginning to clamor for more breed articles.

Why don't you, Mr. Breeder, take a little time and write a good instructive article boosting your favorite breed? It will please the beginner and help your business. We will be glad to have breed articles of the right sort and good photos of your fowls and poultry plant. We have asked for such articles many times. There never was a time when they were more needed than now, nor a time when they will be more appreciated by readers who are about to decide on what variety or breed to keep.

Describe your breed, tell how you mate, what you feed and how; about houses and yards, hatching, and any particular equipment which you have originated or perfected. Describe the chicks when hatched, how they should be fed and cared for. Tell what they look like at various stages of growth. Many a beginner, noting the—to him—strange coloring of his chicks, thinks he has been "stung" and that his chicks are not pure bred. He does not know that they are all right and will show Standard color when they get their adult plumage. Explain to him about what percentage of good ones he may expect to raise, tell him about culls and how and when to cull his flock. In short give him the A-B-C of work with your breed. Don't put it off. Sit down and write that breed article today and mail it to us.

WALHALLA



Buff Orpingtons

Buff Minorcas

The Strains of Quality

Look at These Wonderful Records!

CHICAGO COLISEUM, 1917		MEMPHIS, TENN., 1918	
Buff Orpingtons	Buff Minorcas	Buff Orpingtons	Buff Minorcas
1-2 Cock	1 Cock	1-2-3 Cock	1-2-3 Cock
1-2 Hen	1-2-3-4-5 Hen	1-2-3 Hen	1-2-3 Hen
1-3-5 Cockerel	1-3-4-5 Cockerel	1-2-3 Cockerel	1-2-3 Cockerel
2-5 Pullet	1-2-3-4 Pullet	1-2-3 Pullet	1-2-4 Pullet
1-4 Old Pen	1-2 Old Pen	1 Old Pen	1-2 Old Pen
2-3-4-6 Young Pen	1-2 Young Pen	1 Young Pen	1-2-3 Young Pen
All 5 Silver Cups Offered			All Specials Offered in Buff Minorcas

Such records uphold the reputation of our Quality Birds.

HOW MANY CAN EQUAL THIS SHOWING?

Not only do our birds win for us, but our birds also won in the hands of our customers at the following shows:

Dallas, Texas; Kenosha, Wis.; Des Moines, Iowa; Denver, Colo.; Columbus, Ohio; Cleveland, Ohio; Spokane, Wash.; Atlanta, Ga.; La Fayette, Ind.; Calgary, Canada; Guelph, Ontario, Canada, and many other shows too numerous to mention.

What we have done for others we can do for you.

Right now we have many youngsters that are positively the best we ever had. They simply cannot be excelled in type and color for the price we ask for them. No matter who the judge is, the wonderful character of color and unparalleled type on our rugged northern bred birds will catch and hold his attention.

Let us furnish you the birds which will spell success for you at your next show, engage them now while our line is complete; also breeders which will prove satisfactory.

If you expect to breed good ones you will find it necessary to have good birds for your foundation. You can depend on anything you buy from us. If you find anything wrong, it's our mistake. Money cheerfully refunded.

Send for our winter sale list describing our stock and prices.

WALHALLA POULTRY FARM

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200 Blazing Red Cockerels for Sale

Brilliant, large sized, large boned, March hatched birds for \$3 to \$10 each. No better stuff sold for twice the price.

HURST FARMS REDS

Will please you. Pure Scranton strain. Get in your order early and get the pick. Every bird worth the price, and many birds in this bunch worth \$50 to \$100, all at the above price. Order direct from this ad.

Hurst Red Farms Maquoketa, Iowa

BETTER THAN GREEN FOOD

Just dissolve WACKER'S B-T-G-F TABLETS in the drinking water. The tablets will do more than any green food you can give; your chickens will be in prime condition, and an increased egg production will result. The initials B-T-G-F stand for "Better Than Green Food," a fact you can positively rely on, as there is no green food as good. No meat scraps are necessary and nothing else is needed for the molt when using these tablets. If you are not satisfied after a fair trial, write us and we will return your money. To those who are skeptical, we say, write your own guarantee. **DID YOU EVER TRY OUR ROUP TABLETS?** In time of need Wacker's Roup Tablets will not fail you. All tablets: 200 tablets, 50c; 1,000 tablets, \$2; 5,000 tablets, \$7.50. Sold nowhere else. Practical hints free.

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EVERLAY BROWN LEGHORNS

Purchase your cockerels for breeding and show now from America's greatest winning laying

strain. They cost no more than inferior stock elsewhere.

H. V. Tormohlen

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OTTO WHITE ORPS "JACK FROST" MALE LINE

Four firsts at Indianapolis; five at Indiana State Fair. Line-bred cockerels that will win the blue or make "top notch" pen-headers. Extra values in breeding hens. Write for prices. Correspondence a pleasure.

WILLIAM N. OTTO 5015 Central Ave. INDIANAPOLIS, INDIANA

Get the American Poultry Journal 3 years for One Dollar

The MORRIS WHITE ORPINGTONS



THE PROVEN LEADERS

Winners of more points at Madison Square Garden than all other competitors combined in the last three years, this season have won every first offered at Ohio State, Columbus; Michigan State, Detroit; Tri-state, Memphis.

The Aldrich White Orpingtons

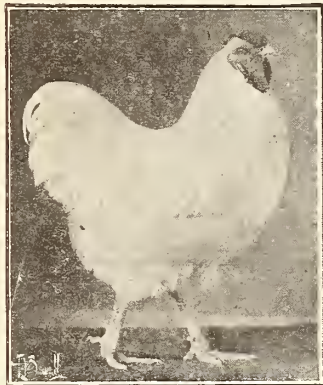
have won 268 prizes during the last five years at Chicago Coliseum, Buffalo, St. Louis, Pittsburgh, Cleveland, Atlanta, Allentown and Madison Square, N. Y., and have been making high egg records in the National laying contests since 1913.

Hundreds of cockerels, hens and pullets from either of these great strains, now ready for the show room, laying contests or breeding pen.

MORRIS POULTRY FARM H. Rawnsley, Mgr. LEBANON, OHIO

Keeler's Vigorous White Wyandottes

The Aristocrats of the White Wyandotte World



FIRST COCK, CHICAGO

WON 5 FIRSTS AT CHICAGO

For 25 years they have been winning for me and my customers at America's best shows—Chicago, New York, St. Louis, New Orleans, Kansas City, Pittsburgh, Washington, D. C., Denver, etc. In buying White Wyandottes from me you not only receive the benefit of my quarter of a century of experience, but also the careful pedigree breeding back of these birds for many generations. I not only can supply you with winners—birds that will win in any show room, but also birds that will fill the egg basket. My birds lay from 200 to 265 eggs a year, and the prize-winning females are selected from among these layers. The biggest demand for Standardbred poultry the world has ever seen will be the fall and winter of 1919-20, so prepare now for the harvest, but be sure your foundation stock is right.

2000—Birds for Sale—2000
Cocks, hens, cockerels, pullets—females, \$5 to \$35; males, \$5 to \$50; breeding pens, \$25, \$35 and \$50; show pens, \$50, \$75, \$100 and \$150. I have no cheap birds, nothing but the best, so please do not write me for \$2 or \$3 birds. Please state wants clearly.

All stock shipped on approval. Your wisest act before buying stock or eggs is to send for my instructive, illustrated art catalog, giving a full history of my birds.

CHARLES V. KEELER, R. F. D. No. 11, WINAMAC, IND.

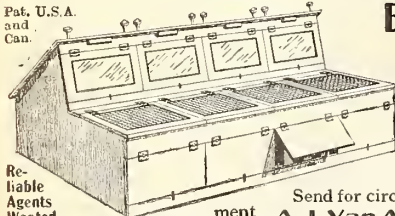
FROST-PROOF HANSEN'S NON-SITTERS RUSSIAN ORLOFFS

I am the first importer of these wonderful birds. From January 1 will offer EGGS at \$1 each. My birds have won at London, Madison Square Garden and Chicago Coliseum. My Russian Orloff hen led the American egg-laying contest for the first seven months for two-year-old hens, and up to the time of her death was leading all birds.

20 Pullet-Bred Buttercup Cockerels from \$5 to \$15 Each

DR. M. A. HANSEN :: OSAGE, IOWA

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Reliable Agents Wanted

BIDDY'S FRIEND HATCHER AND BROODER COOP TWO-IN-ONE-COOP

enables you with very little work to take care of hens while hatching. First used for hatching and then as a brood coop. The natural way is the only way to raise the largest percent of good healthy chicks.

Don't run the risk of losing valuable hatches either thru rats or other reasons by using improper coops.

Send for circular containing further information and special inducement
A. J. Van Ackeren, L. B. 107, Cedar Rapids, Neb.

MAHOGANY RUSSIAN ORLOFFS

NOT a new creation—bred 200 years in Russia, its native country. Quaint in appearance and rich in color of plumage. European standard weights, cock 8 lbs., hen 6 lbs. The Orloff is a tight-feathered, yellow-skinned, yellow-legged fowl, a non-sitter and prolific layer. Foundation stock purchased and imported from the two best breeders in Europe.

DIVERSION POULTRY FARM

FARM: Kissingbower Road

E. A. FRANK, Prop.

CITY OFFICE: Broad St., Augusta, Ga.

DR. WOODS' NOTES AND COMMENT

Christmas.

Blow, bugles of battle, the marches of peace; East, west, north and south let the long quarrel cease; Sing the song of great joy that the angels began, Sing of glory to God and of good-will to man!

—Whittier.

Merry Christmas, everybody! May the coming season of peace on earth, good-will to men, bring happiness and contentment to you and all of yours. In the good New Year that is to come, may success crown your efforts and may prosperity and the "best of luck" be always with you.

According to an old English saying: "As many mince pies as you taste at Christmas, so many happy months will you have." Mr. Hoover, please take the lid off for Christmas tide.

Poultry is good and eggs are the best of food, but hog killing time comes this month. O you sassingers, scrapple, spar'-ribs, pork chops, and cracklin's, to say nothing of ham an' eggs, and liver and bacon. Those milk-fed haws sure do look good and we expect to make good use of everything but the squeal. There is a heap of satisfaction as well as good food in a pair of good growthy pigs, it's a pleasure to watch them eat and grow. Ours have been compounding interest since last spring and no matter what the skim-milk, buttermilk and grain cost, they are worth it.

Labor has been and still is mighty scarce. We have had to be farm manager, editor, farm hand, chore boy, office boy and typewriter, all in one, most of the year. Working hours fourteen 8-hour days per week, but it has been a very interesting and satisfactory season at that. We have been much longer getting into winter quarters than usual, still have much undone that ought to be done, but we have some very excellent poultry and live stock and hope to be able to carry on in good shape during the coming season.

We are pleased to note increasing interest in goose growing and turkey raising on nearby farms. Where suitable range for forage is available, geese and turkeys make a very satisfactory food crop. We need more of them. Readers are beginning to take a lively interest in geese, ducks and turkeys. Won't some of our experienced growers contribute, "for the good of the cause," some instructive articles for beginners on how to successfully breed, feed, and rear these excellent fowls. "Do your bit" for waterfowl and turkey breeders, it will mean better business for you during the coming season.

In Pearson's Magazine for October, Editor Frank Harris has the best article on the American farming situation that we have ever read in any general magazine. He quotes W. J. Spillman, chief of the office of farm management of the United States Department of Agriculture, as authority for the statement that the average "labor income" of the farm family is only \$318.22 and that even the best farms show an average net earning of only \$640.40 per year. He points out that while some farmers have undoubtedly prospered, others have suffered extraordinary losses this past season and cases are cited which prove that four members of a family working 14 hours a day on the farm are not receiving as much pay for all four as the salary of one other member of the family working short hours on a city job. Summing up the evidence presented in answer to the query "Are Farmers Getting Rich?" Mr. Harris says:

"If the American farmers were getting rich, the entire nation ought to unite in a hymn of praise to God that it is so. If he is not prosperous, then it should be the chief business of those who direct our public policies to see that he does prosper. Atlas-like, the farmer carries the world on his shoulders. If he stumble and fall, then all goes with him. The truth is he works harder for less pay than any other class in the community; yet the profiteering on beef and pork and mutton continues while the farmer is half starved."

OWEN FARMS

S. C. Rhode Island Reds White Plymouth Rocks Buff Orpingtons and S. C. White Leghorns

are known all over the world as the best flocks of these varieties.

The wonderful records that have been made by my birds at Madison Square Garden, New York (where 418 Owen Farms birds have won the blue), Boston, Chicago, New York State Fair, Minneapolis, Pittsburgh and the leading shows of the South have never been approached.

Thousands of Owen Farms' birds have won firsts in the hands of customers.

What You Will Find Here:

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| 1. Golden Rule treatment. | 6. Naturally grown birds, on free range with sane feeding. |
| 2. Exceptional value. | 7. Utmost courtesy. |
| 3. Unequaled Standard quality. | 8. Absolutely square dealing. |
| 4. Unexcelled utility qualities. | |
| 5. Perfect health and vigor. | |

Show and Breeding Birds

The past few weeks have been busier on Owen Farms than have been the corresponding weeks of former years. Not only have many star exhibition birds been shipped, but hundreds of lower priced birds have gone. All ordinary thorobred utility males and females have been sold, and only good to fine breeders and fine exhibition birds remain. A few choice cock birds remain on sale and a limited number of choice hens. There are plenty of fine cockerels in each variety and a number of fine pullets.

You will find old or young birds to win your show and breed your winning chicks afterward.

You will find choice, carefully mated trios at \$25, \$35 and \$50 per trio, and pens at \$35, \$50 and \$75.

You will find grand husky cockerels at \$10, \$15 and \$25 each. A limited number of good breeders at \$7.50.

Place your order now, while my flocks are large, and I can select just the birds you need. Remember, your absolute and permanent satisfaction is my first thought. My best customers this year are my customers of former years. When you once try "the Delano Way and receive Delano Treatment, you remain a Permanent Delano Customer."

Write me fully and freely exactly what you wish to accomplish, and my reply will advise you to the best of my ability.

Liberty Bonds and War Savings Stamps are accepted in payment for the birds you need.

The war is over, and poultry will now have its innings. Feed prices will go down and poultry products remain high on account of the great scarcity.

MAURICE F. DELANO
Proprietor

OWEN FARMS

FRANK H. DAVEY
Superintendent

Office at 107 William Street, Vineyard Haven, Mass.

20 BIG HATCHING IMPROVEMENTS ON X-RAY INCUBATORS INVESTIGATE

Don't Buy

any incubator until you have investigated the 20 exclusive features or improvements of the X-Ray, the World's Superior Incubator. Each feature is important, every one valuable. Absolutely necessary for bigger, easier, cheaper hatches, healthier chicks and bigger profits.

ORDER QUICK—Only 9,000 To Sell This Year

That's less than half enough to supply usual demand in the past. That means some are going to be disappointed. Don't let it be you. Act quick. Get one of those 9,000. When they are gone, money will be returned as shortage of material and labor prevents making more.

Shipped By Express Prepaid

No delays, no disappointments. Your X-Ray is on its way same day order is received. That's part of our service. In addition, we have a Free Service Department for Poultry Raisers—to help you with your Poultry Problems.

Write For Big Free Catalog No. 101

Illustrated in colors. Shows every X-Ray just as it looks, true to life. Fully explains all the 20 Important Hatching Features. Tells about X-Ray Brooders. A catalog you should have before you decide what incubator to buy. It's free. Send postal today.

X-Ray Incubator Company Des Moines Iowa



The Handy, Simple X-RAY Means Bigger Poultry Profits

A Wonderful Book You Should Have. Send for it Now.

Single Comb Reds

If you want winners for that show you are going to attend, write me. All birds sent on approval.

HARRY MCPEEK
R. F. D. No. 1 MOWEAQUA, ILL
(Formerly McPeck & Sparling)

Barred Wyandottes White Wyandottes

—PRIZE WINNERS—GREAT LAYERS—

On Whites won 4th and 5th cock, 1st old pen, 3d young pen at Trenton in strong competition. Our Barreds are running uniformly well this year. Breeding cockerels and pullets, \$5 and \$7 each; show birds, \$10 up.

Caudalpin Farm, Convant, N. J.

The following letter from the son of the late I. K. Felch will interest readers who knew "Uncle Isaac" personally:

"Natick, Mass., Oct. 14, 1918.

"My Dear Doctor: I appreciate the kind words you had to say about my father in the American Poultry Journal. I believe he too is thanking you—for I fully believe he knows and sees and now hears.

Very gratefully yours,
A. E. Felch."

We shall all miss the familiar, tall, straight, broad-shouldered figure from the aisles of the big show this winter, the man who was so quick to see, so keen to appreciate, and so quick of wit, with an apt and ready reply for all queries, in spite of the fact that all must address him thru an ear trumpet of large caliber. Tho there must be a vacant chair at the veteran fanciers' meeting at the coming Boston show, the things "Uncle Isaac" stood for and fought for still live, and he lives in the memory of old friends. Many will be glad to feel and believe that he knows, sees and hears.

* * *

Do not close poultry houses too snugly at night. Fresh air is needed at night even more than in the daytime. If certain fronts are used, arrange them so that they will not entirely close the front but leave an open space at the top.

* * *

Ice in water pails may be readily removed by turning the pail upside down and then pouring a little cold water over bottom and sides of pail. Follow this with gentle pressure on bottom of pail and the ice will fall out. Do not bang and batter pails to get rid of ice. Galvanized iron equipment costs money. Save it.

* * *

If water pails and fountains are emptied at night closing-up time, there will be little trouble with ice. In extreme cold weather, when there is plenty of clean snow, snow will often serve better than water for the fowls. We do not like to use warm water. Many cases of frosted wattles, and even frosted combs, can be traced to wetting with the drinking water when cold is severe. Snow in place of drinking water will not affect the egg yield.

* * *

Collect eggs frequently, to avoid chilling and freezing. Do not permit broody hens to occupy the nests. If you do not require their services for early sitters, remove the broodies the first night they are found on the nest. Place them in a slat bottom coop in a comfortable part of house. Water but do not feed. If they are taken in time, three days confinement is usually sufficient and you can have them laying again in from six to ten days. The longer a broody hen clings to the nest after she first shows a desire to spend the night sitting, the longer it will take to break her up and to start her laying again. Broodiness indulged for a week or more may mean that it will take as long to get the fowl laying as if she were permitted to hatch a brood.

* * *

Feed succulent greens and vegetables freely, give each day what they will clean up. If you are seeking best results in egg production do not gorge the birds with wet mash in the morning or permit them to fill up their crops without a reasonable amount of exercise. A hen with a crop full of warm mash is likely to seek a quiet roost and go to sleep again. This loafing on the roost may give you fat fowls but it won't help egg production.

* * *

It is time to overhaul the incubators and brooding equipment and make sure that everything is in readiness for starting the early broods. If new equipment or supplies are needed, orders should be placed early. We still have transportation difficulties and freight is slow. Place orders early to avoid disappointment.

* * *

Don't neglect the show birds when they come home from the winter exhibition. Give them a roomy place by themselves for a few days, where they can rest and be comfortable. Give them a chance to stretch and exercise. Watch them for symptoms of any disease which may have been contracted in the show room or during transportation. Feed them well on a variety of wholesome food and plenty of greens. See that their quarters are well ventilated so that there is abundant fresh air both day and night. Keep them away from the home flock for from ten days to two weeks to make certain that they are not victims of contagious disease.

* * *

Plan to start hatches early the coming season. Baby chicks will be in demand and early pullets will have a ready sale at all ages. Get out a good bunch of early chicks for renewing home flocks.

The Germ-killing Disinfecting White Paint

CARBOLA

A Better and Easier Way

to do your work—a saving of time, labor and money—is yours if you will use this snow white mineral paint combined with a germicide 20 times stronger than pure carbolic acid—a paint and disinfectant in one. It comes in powder form ready to use as soon as mixed with water and can be put on with either a brush or a sprayer. It will not blister, flake or peel. Has the approval of many experiment stations and most carefully conducted poultry, dairy and breeding farms. It is not an experiment and you too will be satisfied if you

Use It Instead of Whitewash

to make your barns, poultry houses, pens, cellars, dairies, etc., cleaner, brighter and free from the germs of infectious disease. Carbola kills lice, mites, fly eggs, etc., but is non-caustic and non-poisonous. Its use makes for better producing flocks and herds and a readier and higher-priced market for their product. Whitewash is disagreeable to prepare, has no germicidal value and flakes, peels and blisters.

Get some Carbola today from your dealer, or if he has none send his name and your order to us.

10 lbs. (10 gals.), \$1 plus postage.
20 lbs. (20 gals.), \$2 delivered free.
50 lbs. (50 gals.), \$4

Trial package (covers 250 sq. ft.) and booklet "The Disinfectant That Paints" for 25 cents postpaid.

Carbola Chemical Company
7 East 42nd St. Dept. I. New York



Guaranteed Poultry Remedies

There is a Reliance Remedy to cure every poultry ailment. You can treat 1000 fowls as easily as one. Administered in drinking water. Insist upon having

- Reliance Sore-Head Remedy
- Lice and Mite Killer
- Roup and Canker Cure
- Poultry Tonic
- Cholera Specific
- Limberneck and Gapes Cure

You can't make money in the poultry business today without Reliance Poultry Remedies to help you. Guaranteed satisfactory or your money back.

If your dealer cannot supply you, we will send you any Reliance Remedy, postage paid on receipt of price. Poultry Manual Free.

2 Sizes—50c and \$1.00

RELIANCE REMEDIES CO.
Dept. 3K El Paso, Tex.



\$2.50 a Month

The masterpiece of watch manufacture—adjusted to the second, positions, temperature and isochronism. Encased at factory into your choice of the exquisite new watch cases.

21 Jewel Burlington

All sizes for both men and women

The great Burlington Watch sent on simple request. Pay at rate of \$2.50 a month. You get the watch at the same price even the wholesale jeweler must pay.

Write Today for Free Watch Book

See handsome color illustrations of all the newest designs in watches that you have to choose from. Your name and address on a postcard is enough. Get this offer while it lasts. Write today.


Burlington Watch Co., 19th St. & Marshall Blvd., Dept. 3899
Chicago—Canadian Office: 365 Portage Ave., Winnipeg, Man.



BANTAMS

America's Finest Bantams, 40 varieties. Game and Ornamental. Shipped on approval. Winners at the largest shows. Stock for sale. Prices reasonable. Cat. 2c. Choice Golden, Silver and Ringneck Pheasants, PitGames and Fancy Dogs.

F. C. WILBERT & CO. Grand Rapids, Mich.



Readers Open Forum

Value of Advertising.

I AM enclosing a large advertisement of the American Tobacco Company, which is appearing in the daily papers and in which both text and illustration advocate the use of more eggs on the family table. This is one of the best advertisements in the interest of poultry culture which I have seen. One line in it says "You know there isn't a better breakfast than two poached eggs on toast—seasoned exactly right." That is good, truthful advertising, and I believe that more of this and less hot air, committees, breed books, market standards, federations, experimental ginks, expert lecturers and advisers—some who ought to be over there or in munition plants—would do the whole industry a lot of good. The Chicago "Con," which I attended a little, will

master the situation if a million words will turn the trick!
Ohio.

F. C. Stier.

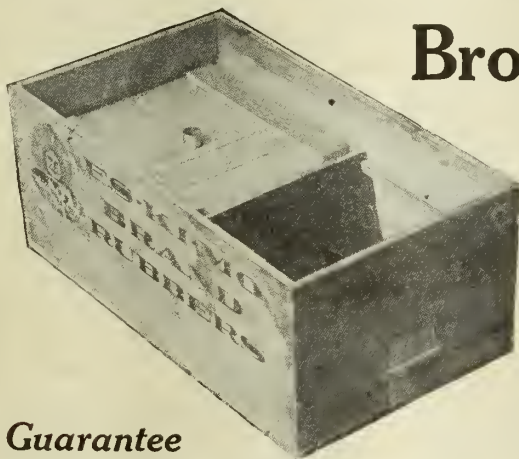
More Advertising.

Not long ago I attended a meeting and luncheon of United War Workers in an eastern state, and the conversation at the luncheon table drifted to the high cost of living. It was the general verdict that "food is entirely too high in price and that farmers are getting wealthy since they have acquired the habit of gouging the city dweller for every mouthful of food he eats."

Personally I am not accustomed to speaking in public and I did not feel sufficiently well informed to attempt a speech on the subject, but I was well pleased to find that there was a country woman present equal to the occasion and who, after a few min-

utes earnest conversation with the chairman of the meeting, addressed the large number of women present. As most of these are housekeepers, I believe the majority of them will go home with a clearer idea of food values and what it actually costs to produce food than they have ever had before. Women who have never in their lives gotten out of bed before seven or eight o'clock and many of them not before ten, who have had their luxurious breakfasts served them in bed, and their appetites pampered since childhood, listened attentively and actually applauded the little woman who stood up before them and told them in plain words of the hardships, the long hours, the monotonous, poorly paid work of the farmers' wives. Said one of the women afterward in my hearing, "I am glad I heard this talk for I begin to see the magnitude and importance of the food producer's work—I had thought of him only as many of us used to the slaves, necessary to our comfort and wellbeing, but not having the same instincts and desires as the rest of humanity."

This is the kind of advertising the food producer needs today. Just because a farmer once in a while in some specially favored community makes a hundredth part of what the railroad magnate or the steel magnate or the manager of a great packing concern makes every year, the report goes around that farmers are coining money, and some



Guarantee

I guarantee the Putnam Brooder Heater to give satisfaction or it may be returned to me within 30 days of shipment and the money paid for it will be refunded.

Brooder Complete \$4.96

Cut herewith shows the Putnam Home-Made Brooder—Complete

This Year Save Your Baby Chicks
Either those you hatch yourself or those you buy—and do it at small cost in every way.

← See Sample Brooder at Left

The materials used to make it were one shoe box; one-sixth yard of oil cloth and one Putnam Brooder Heater. The total cost, including Heater, was \$4.96. A 14-year-old boy can build one in an hour with no tools but saw and hammer. This Brooder will accommodate from 35 to 60 chicks and will take better care of them than any Brooder made, no matter how elaborate or expensive. Build one NOW and have it ready for the young chicks when they come. Write for plans for making this Brooder and testimonials from satisfied users. I will send you the plans FREE.

Advantages of the Putnam Home-Made Brooder

Requires filling BUT ONCE A WEEK—no other attention. Patented principle—EFFICIENCY guaranteed. Thousands in use. Every OTHER BROODER must be filled and trimmed SEVEN TIMES a week.

Putnam HOME-MADE BROODER is adapted to any size plant from 25 to 60 chicks in one brooder to any greater number desired; simply use more brooders. Is particularly adapted to needs of small breeder and back-lotter who aims to produce one lot of chicks or a few dozen.

No other brooder on the market is EASIER or more SIMPLE to operate; none uses SO LITTLE OIL per chick; brooder consumes less than a gallon of oil A MONTH. Send for and read the testimonials.

Putnam BROODER HEATER is so constructed that it acts LIKE AN OPEN FIRE PLACE, carrying the foul air out and drawing the fresh air in, thus providing PERFECT VENTILATION AUTOMATICALLY.

Heat is radiated from ABOVE onto the backs of chicks, giving the natural and soothing effect OF THE HEN—without the lice.

Hover is so constructed that chicks FIND EXACT TEMPERATURE THEY LIKE. Adjustable hover takes care of any season from February to July.

Putnam HOME-MADE BROODER CAN BE OPERATED ANYWHERE—in a sunny room in a house, an open shed, or, if a roof be built on it, out of doors; can be CARRIED ANYWHERE by a half-grown boy.

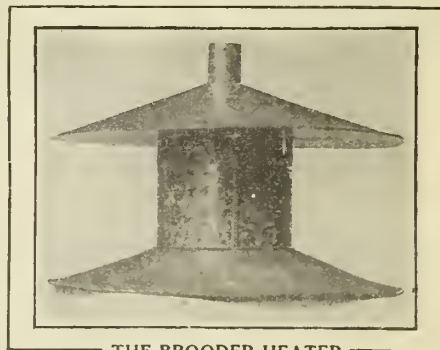
No other brooder is easier to clean and disinfect. Simply lift out hover and heater—brooder can then be emptied of litter and be disinfected.

Brooder Heater is made of brass and galvanized iron—IS PRACTICALLY INDESTRUCTIBLE.

Capacity of Putnam HOME-MADE BROODER IS ELASTIC. When chicks require more exercising space heater and hover can be placed in larger box or other structure. THE BROODER GROWS WITH THE BROOD.

Floor of this brooder is even with the ground and therefore chicks do not have steps or inclines to learn, thus avoiding loss from rain or chilling.

To summarize: At no price, HIGH OR LOW, can a brooder be bought so economical in first cost, also in fuel and labor—so simple and EASY TO OPERATE, so perfectly ventilated, or one that will so surely raise HEALTHY AND VIGOROUS BIRDS.



THE BROODER HEATER

Price only \$4.75, postpaid

HOW TO ORDER: I do not sell the Putnam Home-Made Brooder. I sell the Brooder-Heater only. The price of the Heater is \$4.75 postpaid. With every Brooder-Heater I will send EASILY FOLLOWED DIRECTIONS for building the Home-Made Brooder. You can order direct from this advertisement to save time. Reference, by permission, Editor this Journal.

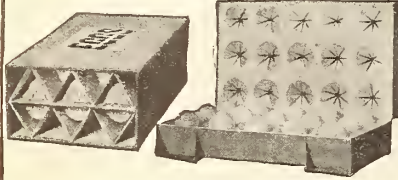
I. PUTNAM

Route 1205

ELMIRA, N. Y.

SHIP EGGS SAFELY

From the Farm to the Breakfast Table In "DIAMOND" Parcel Post Egg Carriers



Thousands of people are buying fresh—from the farm—eggs direct from the farmers and receiving them safely at their own doors in Diamond Parcel Post Egg Carriers.

Made in Sizes 1 to 8 Dozen. Also hatching sizes. Can be used repeatedly. Light weight. Strong Construction. Order from Your Dealer.

DIAMOND BOX MFG. CO., Minneapolis, Minn.

Ill-advised people seem to feel that a farmer should not be permitted to ride in an automobile, much less to own one, when as a matter of fact farmers could not carry on their business today except for their use of motor cars and tractors. It is time that these facts be made known to those whose wealth and comfort is dependent upon the great work which the food producer annually performs. For this reason no opportunity for enlightening people along these lines should be allowed to go by ungrasped. Let us all enlist as advertising agents in the interest of the food producer. Pennsylvania. E. H. Johns.

Partridge Cochins.

Of late years very little space has been given in the poultry journals in the interest of the beautiful Partridge Cochins but in spite of the neglect, this useful breed is still a favorite in many poultry yards, especially among poultrymen capable of judging worth in fowls. Those who have bred them for many years acknowledge them to be one of the best general purpose breeds which we have today. They are wonderful layers of large brown eggs, and if well fed and cared for lay almost the year round. They should be fed very little corn or fattening food, especially in summer. For best results I advocate a ration consisting of oats, barley and wheat, with a mash composed of wheat bran and ground oats moistened with skim-milk or water. I prefer to feed the whole grain in a straw litter.

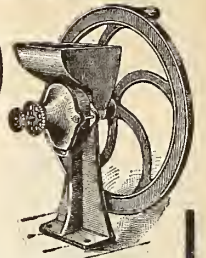
The next boxes for Cochins should be placed on or very near the floor and the perches should not be more than eighteen inches from the floor. If placed higher, many of the birds would not go on the perches at night, or, if they did, would be liable to injure themselves in jumping down to the floor because of their great weight. A woven fence three or four feet high is sufficient to confine them.

In plumage, the Partridge Cochins are rich and elegant looking, and the dark-shaded plumage is not apt to show every little bit of soil, as lighter-plumaged varieties do when kept in small yards. It requires little fitting to get them ready for the show room. They seldom require washing if their surroundings are kept fairly neat.

This Stover Grinder

ONLY

\$4.90



Indispensable To Poultry Raisers

Special Sale—Send only \$4.90 today for the famous Stover Hand Grinding Mill. Just what you need to go over the top with your hens. Grind your own wheat, oats, corn, kafir, peas, barley, stale bread, dry bone, shell, etc., and

SAVE GRAIN INCREASE YOUR POULTRY PROFITS

Made of high grade castings of tested strength and excellent finish and are of larger capacity and do smoother, better grinding than any similar type of mill you can buy. 16-in. flywheel. Can be adjusted to merely crack grain or grind corn meal fine enough for table use. Cap. 1 to 2 bu. per hour. Ship. wt. 40 lbs. Used by thousands of poultry raisers all over country.

Remarkable Value at This Low Price

Order yours today. At dealers or we will ship grinder direct on receipt of price, \$4.90. Limited offer! Order at once or write for circular. Dealers write!

STOVER MFG. & ENGINE CO.

4121 Plymouth St., Freepport, Ill.

Also Stover Good Engines, Feed Mills, Pump Jacks, Samson Windmills, Ensnage Cutters, etc., since 1862. FREE Catalog.



POULTRY BANDS

Pigeon Bands—Nest Tags

All goods guaranteed to be just as represented

ALUMINUM BANDS with raised figures, price postpaid. 10-15c, 25-25c, 50-35c, 100-60c.

SPRAL CELLULOID BANDS. 10 different colors price postpaid. 12-15c, 20-25c, 50-45c, 100-75c.

COLORED CELLULOID, with Aluminum Back.

Any color, two large black numbers in each band; price 12-30c, 25-50c, 50-90c, 100-\$1.65.

Please do not send postage stamps

The National Poultry Band Co.

Send for Catalog. NEWPORT, KY.



Leave it to the Hen! Leave it to the Chick!

More Eggs on Less Grain—More Healthy and Strong Chicks The 99.93% Carbonates Grit. Write for Circular, giving your Dealer's name.

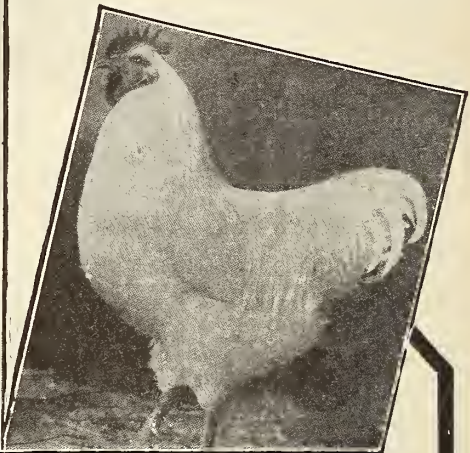
Rockfield Products Company Milwaukee, Wisconsin



First Prize S. C. White Leghorn Cockerel, New York State Fair, 1918.



First Prize S. C. Rhode Island Red Hen, Trenton, N. J., 1918.



First Prize Wh. Plymouth Rock Cockerel, Madison Sq. Garden, N. Y., 1917-18.

They Were Bred at Wilburtha!

Last winter at Madison Square Garden, our White Rocks won: 2d and 4th cock; 1st and 4th hen; 1st, 3d and 5th cockerel; 1st, 2d, 4th and 5th pullet; 1st and 2d pen.

Our White Leghorn exhibit was made at the Greater Chicago Show, where we won: 1st, 2d and 5th cock; 1st and 4th hen; 2d pullet; 1st old pen; 1st young pen.

Our S. C. Rhode Island Reds at New Jersey State Fair, 1918, won: 1st and 4th cock; 1st and 3d hen; 1st, 4th and 5th cockerel; 3d pullet; 1st old pen; 1st young pen.

Our birds this year are the best we have ever raised at Wilburtha. Past victories indicate the future. We can furnish birds to win in any show. Write us for what you want.

We also offer choice Breeding Birds in all of our breeds at moderate prices

CHAS. J. FISK, Owner
M. L. CHAPMAN, Gen. Mgr.
F. W. SMITH, Supt.

Wilburtha
POULTRY FARMS

27 RIVER ROAD
TRENTON JUNCTION
NEW JERSEY

The hen is a rich brown, with each feather beautifully penciled with black. The Partridge Cochon cock is unsurpassed in the richness and splendor of his colors. His hackle and saddle are a rich mahogany red on a dark under color with each feather showing a strong, distinct lacing. The broad back and wings are a rich, lustrous brown, the tail a greenish, glossy black, and the breast, thighs and under body black. The general appearance of the cock bird of this variety is broad and massive, with heavy feathering in all sections. They have small, neat combs, bright bay eyes, short tails and rich yellow skin and legs. The back is brown or horn color. The tail is very short and carried low. The heavy feathering gives the neck a short appearance and the head is carried well forward. Cocks weigh from ten to twelve pounds, the hens weighing from seven to ten pounds. Their large size and rapid development make them unsurpassed as a table fowl. As market poultry they often bring an advance over the market price because of their large size and superior flesh. For roasters and capons, they are rivaled only by the Brahmas, while their extreme hardness and quick growth make them one of the best breeds for broilers. At eight weeks they easily weigh two pounds each and bring top prices.

As a table fowl the Partridge Cochon is at its best when matured and properly fattened, usually at a period long after other breeds have passed the soft-meated stage and gone "staggy," when the Cochon cockerel remains soft and tender as a young turkey. Even after they have been used a year or so in the breeding pen, they make choice table meat.

The Partridge Cochons are very gentle and tame and the hens make the best of sitters and mothers. They are strong, robust and free from disease. The vitality of many of the modern breeds has often been seriously impaired by the practice of intensive line-breeding in order to establish some desired characteristic. The Partridge Cochon is one of the oldest breeds and because of this breeds remarkably true to type and color. It is from the Cochins that many of our modern breeds have had their origin. The various Wyandottes, Plymouth Rocks, Rhode Island Reds and Orpingtons are predominated largely by Cochon blood and to this fact they owe much of the size and quality they possess.

Standardbred males mated with Standardbred females of the Partridge Cochons will produce both males and females of Standard quality and color. In breeding, extremes should always be avoided. The closer the parent birds conform to Standard requirements, the better will be the offspring. Most of the best fanciers of today who are breeding this variety are using only a single mating to produce Standard birds of both sexes.

Size should always be maintained by selecting the largest hens as breeders and mating them with males of best shape and color markings. It should always be remembered, however, that free range and liberal feeding during the entire growing period has a great deal to do with increasing the size of the birds. Breeding of carefully selected stock will not insure quality in the offspring, unless due attention is given the birds during growth. The best blood lines back of a bird will not produce quality, unless the bird is generously fed on wholesome grains and greens and is comfortably housed and yarded.

A flock of Partridge Cochons well bred and well cared for in every back-yard would go a long way toward solving the meat problem of today by supplying fresh eggs and chicken for the table every day in the year. I have bred Partridge Cochons for more than twenty years with great success both in the show room and out and feel that I am thus able to judge their worth.

New Jersey. Elmer Niece.

Sprouted Oats Were My Salvation in the Poultry Business.

When I got the chicken fever I had not paid much attention to obtaining winter eggs; in fact I did not care nor know where in to specialize in order to get the most out of my fowls I imagined I would soon possess. I simply wanted to raise chickens.

This was several years ago and since then I, like many others, have had my ups and downs (mostly downs) in this venture.

First, I raised a lot of chickens and sold all I could spare as fries. This would have been all right if I had been able to catch the market always at the right time. Early hatches here in Iowa are not always so easily managed, unless one has on hand the best facilities for taking care of the youngsters.

Then I tried capons and holiday fowls with varied success.

Finally I decided on the production of

Golden Eggs-Get Them!

The old fable tells of a goose that laid golden eggs—now the hens are actually doing it. Egg prices have never been so high. There is a shortage in storage eggs—a correspondingly big demand for fresh-laid eggs. Make your hens and pullets, every one, lay steadily now. Get your share of the golden harvest.

Pratts Poultry Regulator

"makes hens lay." Guaranteed to do it or your money refunded. Make the test at our risk. Learn how well your birds can lay if given the help they deserve. Pratts Poultry Regulator is not a food, not a mere stimulant. It is a tonic and health-builder, which keeps fowls healthy and vigorous, able to stand the strain of every-day laying. Inexpensive, used in small amounts, but it brings results. Get a supply from your dealer today and put your hens into the money-making class. Don't let colds and roup injure your flock and reduce the egg-yield.

Pratts Roup Remedy

will prevent these disorders. Use it occasionally, especially during changes in the weather. If disease has appeared, Pratts Roup Remedy will save the sick birds and protect the rest of the flock.

Remember—"Your Money Back if YOU Are Not Satisfied"

Write for complete Poultry Book—FREE

PRATT FOOD COMPANY

Philadelphia Chicago Toronto



BABY CHICKS

A bird in the hand is worth two in the bush.



Get the "Bird in Hand" This Year

Don't be troubled with "infertiles," lack of vitality, temperamental sitting hens, balky incubators, thunder storms, and the Lord knows what not, that beset those who hatch their own chicks. Our breeders are kept on free range, each breed on a separate farm, and the offspring are full of "pep" and vitality. Get them all of one size and save the trouble of feeding and caring for several different sized hatches.

Many of our birds are blue ribbon winners. Write for catalog—it's ready. Ten leading varieties THORNWOOD POULTRY YARDS AND HATCHERIES, Dept. 123, CRANDALL, INDIANA



Dog Kennel

No. 4 Poultry House for 200 hens—6 units

No. 3 Poultry House for 30 hens

YOU will get more eggs from healthier poultry if they are quartered in a Hodgson Poultry House. Hodgson Methods make them vermin-proof, easy to clean, well-ventilated, rain-tight and storm-proof.

Hodgson Poultry Houses are shipped in neatly finished, fitted and painted sections and can be easily and quickly put together by an unskilled workman in a couple of hours.

Send for an illustrated catalog E. F. HODGSON CO., Room 322, 71-73 Federal St., Boston—6 East 39th Street, New York

HODGSON PORTABLE HOUSES,



"CLUCK-CLUCK" THE HEN'S CALL FOR

CRY-S-CO. The Universal Favorite

99% PURE CARBONATE OF LIME. HARD, SHARP AND CUBICAL YET SOLUBLE GRIT. SAVES BUYING OTHER GRITS. WRITE FOR BOOKLET. W.A. NEUSITZ CO. ST. LOUIS, MO.



Keller's Wyandottes Lead All Others

Note their winnings at New York, Chicago and other great shows, including the club shows for the past 30 years. Our Silvers and Golden are wonderfully laced with clean, oval lacing, with plenty of size, shape and color. Our Whites have the size, shape, color and head points. We have hundreds of the highest class show birds, also breeding and utility birds that are very heavy layers, at attractive prices for this month. Our large, finely illustrated circular for a stamp. Also Golden Sebrights.

IRA C. KELLER, Brookside Farms (Box 75), Prospect, Ohio



BLACK ORPINGTONS

FOXHURST STRAIN

Winners of Best Display at Madison Square Garden, Boston and Philadelphia. Breeders, \$3.00 up. Show Birds, \$10.00 up.

Clayton S. Purdy (P. O. Box 419) Stamford, Conn.

WANTED

1,500 Ancona Pullets

Must be good, vigorous stock, suitable for egg farm. Sheppard Strain preferred. Will buy in large or small lots. Please state how many you can supply and price. Also size, quality and age, and whether rose or single comb. Also want a few males.

W. C. Tackaberry

1601 Euclid Avenue

::

Cleveland, Ohio

HERE IS A BARGAIN

Special Half Gallon Poultry Fountains

Made of heavy galvanized iron—practically indestructible. Handy to carry and will not tip over. Price, 50 cents each, or SPECIAL SALE PRICE while our present stock lasts

6 FOUNTAINS FOR \$2.00

Order from this ad or send for catalog



SIMPLEX SUPPLY HOUSE, PETERSON BLDG., CHICAGO, ILL.

market eggs which I had no trouble to obtain during the spring and summer months, but, of course, prices at that time were not always satisfactory.

As a last resort to make the most out of my poultry I put all my thoughts and efforts into getting fall and winter eggs. I went about getting them like this:

I set my incubator the first part of March, fed the chicks little but, often, according to the rules laid down in most poultry papers; did not miser with the feed when the youngsters were maturing; placed them in their winter quarters about October 1; put plenty of straw for litter on the floor in which the scratch feed is thrown early in the morning; at noon gave them plenty of sprouted oats, and in the afternoon sometimes whole oats, sometimes milk-moistened mash, and, in extreme cold weather corn.

Last winter I had 200 White Wyandotte hens and pullets (about the same number now) and those gave me from 90 to 120 a day last fall and winter. This was a quantity of eggs I had never received during cold weather.

I want to say right here that in my estimation sprouted oats did more toward producing such nice results than any other one item of the feeding system.

I had the sprouts about 1 to 1½ inch long, so as to retain the feeding value of the oat. The fowls also relish it best at this stage of sprouting, and you get the most value out of the oats, as it is a regular egg-making as well as green feed. With a good sprouter you can manufacture it yourself every day. It must be given to the fowls daily, the same as other feeds, or the hen's egg-making machinery will be thrown out of gear for several days, thereby losing a lot of eggs as well as feed.

With a good sprouter you can depend on a regular supply of crisp, tender egg-making green feed, as you could in no other way. Have tried other green feeds, but with only half the success that I enjoy since feeding sprouted oats.

Waterloo, Iowa. J. L. Dickerson.

Merry Christmas.

In nearly every community there are a few soldiers' families or returned disabled soldiers who are not financially provided for as well as they used to be before as stalwart young fellows they went forth to make the sacrifice for you and I. It will be some little time before these men and their families will again be as independent as they once were, and now is the time when you and I can best show our appreciation of what they have done for us. The season of good-will and gift-giving is at hand, so dress off a prime quality chicken and send it to a returned hero or his family with a Merry Christmas. Or if your neighbor has sent a chicken or a turkey or goose, fresh-laid eggs will not come amiss in spreading Christmas cheer.

Maryland. F. D. Blake.

Says Eggless Egg Products Must Go.

Action has been taken by the state dairy and food commission to stop the sale of various egg substitutes which have been appearing on the market. Among the brands of this preparation under the ban are Egg-zact and Egg-oleo, manufactured by the Sunbeam Products company, Milwaukee, Sa-Van-Egg, Eggette, IXL Egg Saver, Egg-Sub and Eggola.

"We shall take immediate steps to stop the sale of these products, which are pure deception and fraud," said George J. Weigle, Wisconsin dairy and food commissioner, on Saturday. "Analysis of the products show that they contain 80 percent cornstarch and 20 percent skim milk powder. Egg-oleo contains a small percentage of dried eggs, but not enough to prove effective as a leavening agent in baking. The products are artificially colored with coal tar dye. Baking demonstrations which we have prepared prove that a cake baked without any egg is not much worse than one baked with these so-called egg substitutes."

C. J. Kremer, state food inspector, exhibited a number of cakes baked with egg, with the substitutes, and without leavening agent. Those made with the substitute were colorless, flat and heavy, being about one-fourth the size of those baked with egg, and the same size as those baked without leavening agent.

According to Mr. Weigle, other states are also stopping the sale of the substitutes. There are about thirty-two brands on the market.—Milwaukee (Wis.) Sentinel.

S. C. W. LEGHORNS LIGHT BRAHMAS ROUEN DUCKS

Eggs and Stock of above varieties.
C. C. NYE, R. R. 1, Box A, HARRISTOWN, ILL.

This Food Makes Eggs Winter and Summer

Analysis:

Protein . 20%
 Fat . . . 5%
 Fiber . . 8%
 Carbo-
 hydrates 48%

An egg a day from each of your hens is not too much to expect *if they are properly fed.* Feed them *right* and they will produce Eggs in *winter* as well as *summer.*

There is no secret about securing Eggs. It is simply a matter of *feeding.* Give your hens food which provides the necessary *nutri-ment* for *egg-making* and *body-building* and they will give you eggs.

More than 118 years of success in poultry feeding has enabled us to produce *Blatchford's "Bar-Nun" Laying Mash* which embodies in the correct proportion all the egg-making elements and ingredients required to enable the hen to *lay an egg a day.*

Blatchford's

"Bar-Nun" Laying Mash

Trade Mark

A scientifically milled, carefully prepared food—a food that makes eggs. Keeps hens in healthy condition. Safeguards them from exhausting the energy required for egg-production as it provides the food elements they would otherwise have to scratch for. Produced to provide poultry raisers with a food that can absolutely be depended upon to assure continuous egg-production 12 months of the year.

Guaranteed Absolutely Free from All Cheap By-Products

We have no by-products or waste materials to get rid of. Therefore you can depend upon it that "Bar-Nun" Laying Mash is *all food.* We *guarantee* it to be free from all cheap by-products or refuse from the manufacture of breakfast or cereal foods or scratch-feed rations.

"Bar-Nun" does not force or fatten—it makes eggs. Ready for feeding —*dry*—just as it comes from the bag. Hens eat it up clean. Get a sack today from your dealer or write to us for further information.

"All You Need to Know to Assure Egg Income" Sent Free — Write for It!

We will send you free and without obligations directions for securing eggs all the year 'round. You want them. Send your name and address today—NOW!

Blatchford Calf Meal Co.

In Business More Than 118 Years
 Dept. 3899 Waukegan, Ill.

"BAR-NUN"
 Dry Mash

Feed Hopper
 Stops all waste. Pays for itself quickly. Can't get out of order.

Saves Feed
 Patented. Guaranteed. Cheap. Protects from rats and mice.

Saves Labor
 See it at your dealers.

Blatchford Calf Meal Co., Dept. 3899 Waukegan, Ill.

Send me free and without obligation, poultry feeding directions and "Egg Income Facts" which will tell me all I need to know to insure egg production Winter and Summer.

Name

Address

When George Newell discovered that he could Increase Egg Production

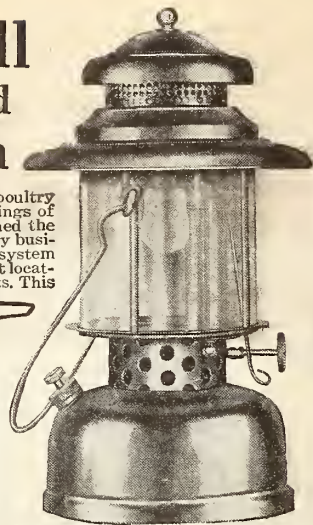
100% by the use of artificial light in his poultry houses in the early mornings and evenings of the short, dark days of winter, he opened the way for far greater profits in the poultry business. The only drawback to Mr. Newell's system has been that most poultrymen were not located where they could install electric lights. This deficiency has now been remedied by the

Acorn Uni-Lite

The Light That Shames Electricity

A Portable Three-Hundred-Candle-Power Light which burns 15 hours at one filling—costing only a quarter of a cent per hour for light that in brilliance, whiteness and steadiness puts any electric incandescent light in the shade. It burns common gasoline or kerosene. Is storm-proof, bug, rain, sleet and snow-proof. You can upset it and roll it around without the slightest danger. No odor, no smoke, no wicks to trim.

During the short days of winter it keeps your hens busy to eat enough to last them through the long, cold night—they have nothing left for eggs. Keep one of these lanterns burning in your poultry house early in the morning, and for a while in the evening, and see your egg production jump. Write for special proposition to poultry raisers. **ACORN BRASS MFG. CO., 110 Acorn Bldg., Chicago**



Big Money-making Proposition for Farmers, Stockmen, Poultrymen, Auto Owners, Liverymen, Watchmen and Campers.

MORE LIGHT ON THE SUBJECT.

J. W. Parks Lets the Cat Out of the Bag and Comes Forward As an Inventor.

No, kind reader, the accompanying illustration is not one of Goldberg's cartoons. While the key (A) on Big Ben pulls wire (B), which operates handle (C) and throws in switch (D) according to diagram as in aforesaid cartoons, this is a practical contrivance, and when it operates, the lights go on in whichever of Mr. Parks' pens he wants his Plymouth Rocks



Mr. Parks' alarm clock which turns on the light in his poultry houses.

to get off the roost and begin eating and laying. When George Newell first experimented with artificial light as an aid to greater egg production in winter, and gave the results of his researches to the poultry world in a book entitled "A Revolution in Egg Production," he aroused much ridicule and hilarity. But just as sure as foam rises on beer, so will truth come to the surface, and when you see such practical, hard-headed poultrymen as J. W. Parks putting these ideas into operation and proving their worth, you may rest assured that they are sound. It's as plain as A-B-C.

During the short days of winter a hen has barely time enough to pick up sufficient food to keep her going during the long, cold night, but if her working day is lengthened by the use of artificial light in the morning and evening, her working day is increased sufficiently for her to eat enough to produce more eggs.

The principal handicap has been that poultrymen were not able to secure satisfactory illumination, but about a year ago, Mr. Parks installed an electric light plant and says he would hardly know how to get along without it now. It gives him an opportunity to do most any kind of work at night and helps the women folks by running the washing machine, churn, etc. There have also been many practical oil lights put on the market which are giving excellent service in lighting poultry houses.

We can imagine that Ma Parks raised strenuous objection when she saw that gigantic being erected right there on the door, but imagine that she is placated since seeing the results which Mr. Parks reports.

In a letter dated November 12, he wrote as follows: "In installing the electric light

Yesterlaid Baby Chicks



Buy Yesterlaid Baby Chicks

on the laying record of their ancestors

The first Lady Laymany is dead, but her ability to lay lives on in the blood of her descendants. Abundant constitutional vigor and the inherited power of heavy laying are two distinguishing characters of Yesterlaid Range-Raised Laying-Leghorns—the hens that have made the word Yesterlaid stand for Leghorn Supremacy. This is borne out by the written statement of hundreds of our successful customers, and by the fact that Yesterlaid hens have been purchased by twenty-six state institutions and experiment stations.

Every Yesterlaid breeding pen carries the blood of hens that have laid 443 to 480 eggs in two years. The individuals in these pens are the result of more than a decade of diligent, painstaking study and breeding experience. They are pure line-bred Yesterlaid, they have never been out-crossed with foreign blood. They rank high as Show birds and Breed true generation after generation.

Yesterlaid Baby Chicks are strong, thrifty and quick-growing—three of them can be raised at the cost of two ordinary chickens, and they will lay enough eggs to pay their cost of raising before average pullets begin to lay. On the farm they are master foragers.

Yesterlaid hens are thrift hens for the city back-lot. They stand confinement perfectly and require less care than other hens of heavier breeds. They will not get over-fat, but turn their food into big white profitable eggs.

One Yesterlaid customer, writes: "I have nine Yesterlaid hens. They layed 1993 eggs from November 1st, to November 1st, I did not trap-nest them, but there was one that I am sure layed 260 and another 240. My back lot is only 33ft.x50ft., and I had part of that in garden.

Buy Yesterlaid Baby Chicks directly from this adv. Buy them now. Send your order today to avoid disappointment when you want shipment. Shipments will be sent out in rotation as orders are received—"first come first served." First shipments will be made as near April 1st as weather permits. Live delivery of full count guaranteed.

Yesterlaid baby chicks will be delivered to you post paid, in any quantity above twenty-five at 20 cents each.

Yesterlaid eggs for hatching, guaranteed 100% fertile, in lots of 100 or more are priced 9 cents an egg, by mail or express, carriage charges collect.

Yesterlaid Egg Farms Co., Dept. 5, Pacific, Mo.

STORM, WIND and BUG PROOF

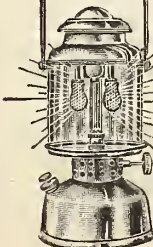
MORE EGGS

Big Increase in Production Possible

Poultry breeders are making big money by lighting their hen houses with "Knight" Lighting Systems. Send for full particulars and also let us tell you about our

400 CANDLE POWER LANTERN

Gives a rich mellow light, resembling daylight. Burns 15 hours on one quart of oil. No smoke, odor, wicks to trim or chimneys to clean. Just the thing for all purposes. Use it anywhere, any time. Guaranteed. Safe and reliable.



KNIGHT LIGHT CO.
102 Knight Building, Chicago

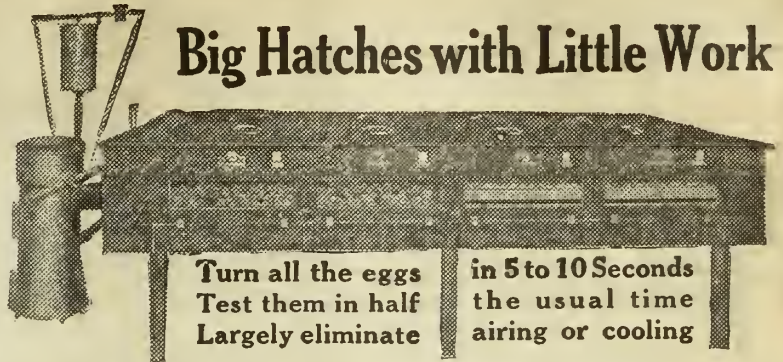
You Should Send 25c for Our New Poultry Account Book.

plant, we naturally had intended trying out the lengthening-of-the-day plan; however, one of our main thoughts was the advantage of being able to put in longer days for myself and the hired help as well as the chickens. About the time of the year that the days commence to shorten is when the breeders are having their busiest time. Previous to installing the plant we seldom got much work done by the help after it commenced to grow dusk. Now, when we feed supper to chickens about four, the help goes to the workshop and finishes up the day grinding feed, ripping out material for shipping coops or any of the many jobs that can be done by a good supply of light. When it comes to trying out the lengthening of the days on biddies we figured that the lengthening was best done by adding out to the beginning of the day. For awhile I set the alarm a couple of hours earlier than daylight. But then we might just as well stay up, for it's hard for a poultryman to go back to sleep again (especially these war times with the labor shortage) when we had so many little jobs awaiting us. As I generally do most of my office work after supper and sometimes well up into the night, I found that I could not stand having my days lengthened at both ends. That is what drove me to working out the dufunny on the alarm clock.

"We have as a rule been very successful with winter egg production and will freely admit that by lengthening the days the production can be increased, but it takes careful handling of the birds especially during the severest weather, and especially in open-front houses. When you get the birds from the roost a couple of hours before daylight, if you're not careful they will be filled up by that time and then have a tendency to loaf, and as we all know about dawn as a rule is the coldest part of the day, and just when they should be working instead of taking it easy.

"I have been experimenting along another line besides increased laying, which is along the line of developing the youngsters. I have taken three pens of late May-hatched youngsters, and been giving them a couple of hours extra daylight in the morning this fall. It's surprising how they are stretching out, and in some cases not only equaling but passing the youngsters hatched four weeks previous, but without light."

Artificial lighting is a subject which every poultryman should look into. It means an untold increase in wealth to the industry.



Big Hatches with Little Work

Turn all the eggs
Test them in half
Largely eliminate

in 5 to 10 Seconds
the usual time
airing or cooling

THAT'S THE PROGRAM WITH A BLUE HEN MAMMOTH INCUBATOR

Most of the work which requires *hours* with other incubators you can do in a few *minutes*—or *seconds*—with a Blue Hen!

Greatest Money-Making Opportunities in History of the Poultry Industry

While the demand for Day-Old Chicks was enormous this past year, that is *only a drop in the bucket* to what it will be the coming season. Why not get your share of this business—and the handsome profits that go with it?

PUT IN A BLUE HEN! Take advantage of the enormous demand for Day-Old Chicks and Custom Hatching. **MAKE YOUR PLANS NOW!**

Tell us what capacity Mammoth Incubator you can use to advantage, and we will send you our handsome catalog, "How to Make Money Hatching and Selling Day-Old Chicks."

The few minutes it may take you to write us now may mean many dollars in your pocket later on!

WATSON MANUFACTURING COMPANY

2808 Ann St., Lancaster, Pa.

FOUR SHIPPING POINTS

SAVE

TIME AND FREIGHT

Order Direct
From
This Ad.



Order Direct
From
This Ad.



On all orders for 20 bags, all one kind or assorted, we will allow 10 cents per bag reduction in price, because of less cost in handling. On 10 bags we will allow 5 cents per bag reduction.

In Indianapolis and Columbus we can deliver to city and suburban trade by local express at reasonable rates.

Remember, it is now possible to ship 200 pounds, and in some cases 300 pounds, for the minimum freight charge that you would have to pay if you bought only 50 or 100 pounds.

SEND ALL ORDERS DIRECT TO OUR CHICAGO STORE.

The items listed below are only a few of our bargains. Write for our monthly Stock and Poultry Feed Price List for prices on our complete line.

Silver Quill Egg Mash

Mash Feed makes eggs. At least as much of this mash should be consumed by laying hens as scratch feed, preferably more. It contains 22 different ingredients, and analyzes 19 per cent protein, 4 per cent fat and 10 per cent fiber.

- No. 51PP921½—100-pound bag. Shipped from CHICAGO. Price.....\$4.55
- No. 51PP5921½—100-pound bag. Shipped from INDIANAPOLIS. Price.....\$4.65
- No. 51PP6921½—100-pound bag. Shipped from COLUMBUS. Price.....\$4.65
- No. 51PP7921½—100-pound bag. Shipped from KANSAS CITY. Price.....\$4.75

Silver Quill Laying Mash

Should be fed in equal quantities with scratch feed and kept before the hens continuously. They will not overeat. This mash analyzes 15 per cent protein, 6 per cent fat and 8 per cent fiber.

- No. 51PP967½—100-pound bag. Shipped from CHICAGO. Price.....\$3.65
- No. 51PP5967½—100-pound bag. Shipped from INDIANAPOLIS. Price.....\$3.65
- No. 51PP6967½—100-pound bag. Shipped from COLUMBUS. Price.....\$3.65
- No. 51PP7967½—100-pound bag. Shipped from KANSAS CITY. Price.....\$3.85

Meat Scraps

Experiments show that animal protein in meat scraps induces greater egg production at less cost.

Silver Quill Meat Scraps analyze 50 per cent protein and 8 per cent fat, and contain the animal protein that is so essential in balancing hens' rations.

- No. 51PP925½—100-pound bag. Shipped from CHICAGO. Price.....\$5.35
- No. 51PP5925½—100-pound bag. Shipped from INDIANAPOLIS. Price.....\$5.40
- No. 51PP6925½—100-pound bag. Shipped from COLUMBUS. Price.....\$5.45
- No. 51PP7925½—100-pound bag. Shipped from KANSAS CITY. Price.....\$5.70

Silver Quill Scratch Feed

Contains Cracked Corn, Wheat, Kaffir Corn, Barley, Oats, Buckwheat and Sunflower Seed. All clean, sweet grains, free from chaff and grit.

- No. 51PP302½—100-pound bag. Shipped from CHICAGO. Price\$3.59
- No. 51PP5902½—100-pound bag. Shipped from INDIANAPOLIS. Price.....\$3.50
- No. 51PP6902½—100-lb. bag. Shipped from COLUMBUS. Price.....\$3.60
- No. 51PP7902½—100-lb. bag. Shipped from KANSAS CITY. Price.....\$3.70

Egg Shell Grit.

So named, because in addition to acting as teeth for the fowl, it supplies lime for making egg shell. It is a bright and sparkling crystal white marble grit.

- No. 51PP960½—100-pound bag. Shipped from CHICAGO. Price..\$1.00
- No. 51PP5960½—100-lb. bag. Shipped from INDIANAPOLIS. Price. 1.00
- No. 51PP6960½—100-lb. bag. Shipped from COLUMBUS. Price.. 1.00
- No. 51PP7960½—100-lb. bag. Shipped from KANSAS CITY. Price. 1.35

Silver Quill Oyster Shells.

Are guaranteed oyster shell. They are ground and dried, not burned, then carefully screened and washed.

- No. 51PP935½—100-lb. bag. Shipped from CHICAGO. Price.....\$1.15
- No. 51PP5935½—100-lb. bag. Shipped from INDIANAPOLIS. Price. 1.15
- No. 51PP6935½—100-lb. bag. Shipped from COLUMBUS. Price.. 1.15
- No. 51PP7935½—100-lb. bag. Shipped from KANSAS CITY. Price. 1.35

Send All Orders to **SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**

SOFT-HEAT **MAKES STRONG CHICKS**



Hundreds of poultry raisers say that they get stronger, healthier chicks and more of them thru use of Soft-Heat Incubators—many have succeeded amazingly who never used incubators before.

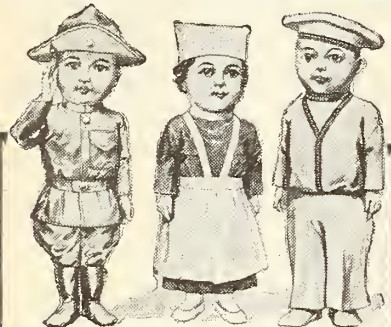
Amazing Discovery
The Soft-Heat principle in hatching chicks is undoubtedly the **greatest incubator discovery in 50 years.** It is the result of 25 years experience and study—invented by acknowledged experts. Actually gets better results than any hen because it is on the job constantly and maintains exactly the right amount of heat over each and every egg at all times in all weathers, and insure perfect ventilation. Automatic control of heat, moisture and ventilation. Round egg chamber.

Porter Soft-Heat Tubeless Incubator

Is put out on an Iron-Clad guarantee. Saves much time—only three minutes a day to attend to it. One filling of lamp with three quarts of oil, all that is needed. Eggs turn semi-automatically without removing tray. **100 to 600 egg capacity.** One user says: "I never saw such strong, healthy chicks as those hatched with your machine, they were so full of life that they fairly popped from the shell. I lay it all to the wonderful Soft-Heat."

Get Big Free Book
Write us a letter or card today for our big, new, free book that tells all about Soft-Heat, result of 25 years incubator building by originators of center lamp heat, and gives much valuable information on hatching chicks—you won't be obligated in any way.

PORTER INCUBATOR CO.
Box 16 **BLAIR, NEB.**



THESE 3 BIG BEAUTIFUL DOLLS

Sent Postpaid to You

Every little girl ought to have at least one doll—the more the better. Here are three dolls that will gladden the heart of any little girl. These are not rag dolls or paper "cut outs" but real for-sure dolls, each standing more than a foot high, with unbreakable heads, movable arms and legs, fully dressed exactly as shown in the picture.

Do You Want One?
I want to put at least one of these beautiful dolls into every home where there is a little girl who will love it and take care of it. My simple plan makes it very easy for you to get one.

Write Me Today
Just write me a letter or a post card and say, "I want one of the dolls you are offering for a little easy work and I will do my best." Then I'll answer quick and tell you all about my plan. Write today.


Annie Frances, Box 27 Spencer, Ind.

Hummel's
27th ANNUAL CATALOG FREE

35 Varieties 35
of Fancy Poultry

S. A. HUMMEL
Box 52 **Freeport, Ill.**

CHAMPION LEG BAND



Aluminum, numbered to suit, with large raised figures. Postpaid 100-60c, 50-35c, 25-20c, 12-15c. Initials extra, 10c per letter per 100; 50 or less 5c. More than one initial with cut figures. Circular free, giving price on Superior and Pigeon Bands and Rabbit Ear Markers. Sample for stamp.

T. CADWALLADER Box 802 **Salem, Ohio**

Mention the American Poultry Journal when writing to advertisers.

Horticulture for Poultry Keepers
Conducted by *Thos. F. Rigg, Iowa Falls, Iowa.*



WE HAD the most pleasant and desirable fall weather. We had plenty of time and to spare to put the orchard and garden in perfect condition for winter. So far as I know I have given every tree, vine and shrub just what it needs, and so I can rest easy this winter in the assurance that having done my duty toward these things, they will reward me with a big crop next season.

In answer to several correspondents: There can be no set rule governing the pruning of grape vines. In the pruning of the fruiting grape vine there are many things to be considered—the variety of the grape, the soil, and the kind of care given the vines. Here in the rich soil of the central west we can prune to longer canes than can the grower in many parts of the east. These vines can be overfed so as to make such wood growth that no fruit will set. I try to prune my Concord vines so that each vine will carry 35 to 40 fruit buds. On this basis the Worden should carry about 25 to 30 fruit

buds; the Delaware 18 to 20 fruit buds. Such pruning would be called long pruning. I have found that Niagara is best pruned to 30 to 35 fruit buds. Campbell's Early, Lucile and Moore's Early do best here when pruned to about 30 buds. When to prune is a disputed question among many growers. There is a theory to which many growers lean. It is that when cold weather checks the growth of the vine, the absorption of food by the roots is not stopped and that the vine becomes surcharged with sap so that each bud is given sufficient food to start it in healthy growth the following spring; that if a portion of the vine is cut away immediately after the vine drops its leaves that portion of the vine remaining will receive all the strength which would have gone into the whole vine had it not been pruned; that the buds will start out earlier in the spring and give better sized bunches of fruit. On this theory, the truth of which I doubt, prune the weaker growing vines just as soon as they drop their leaves, leaving the pruning of the strong growing varieties to later



Imperial Prince, White Plymouth Rock grand champion male at Greater Chicago Show, also at Illinois State Show, 1918. Bred and owned by Mrs. Louisa White, Box A, Washington, Ill.

prunings. I have made it a practice to prune all my vines as soon as the leaves have dropped. One reason why I do this is because many of the vines must be covered in the fall. To central west growers my advice is to prune all grape vines as soon as possible after the leaves fall.

* * *

"I am a subscriber and earnest reader of the entire contents of both American Poultry Journal and the American Fruit Grower. I live in the Ohio River valley (bottom land a little too high to overflow) about fifteen miles east of Cincinnati. Soil is a kind of yellow clay and rather poor and run down. I own only one lot on which my house stands, and would like to set out three or four apple trees, one or two plum trees, and a few gooseberry and currant plants. Will appreciate it very much if you will kindly inform me what varieties of trees and plants for home use. Would like one early, one autumn and two winter apple trees. I like the Wealthy and Jonathan apples but do not know whether they would be best for this locality and soil, or not. If it is not too late I would like to get the trees and heel them in this fall. Also will you name a good reliable nursery near here where I can get the trees and plants you advise."

Kentucky. S. H. B.

You will find Liveland Raspberry, Duchess, Wealthy and Jonathan ideal for your location and needs. Omaha, Endicott and America plums will give you an abundance of plums of superior quality. Would advise you to confine your choice of currants to Fay and Diploma. You will want a few Oregon Champion gooseberry bushes and a few grape vines. For a home supply of grapes plant Green Mountain, Eclipse, Moore's Early, Worden, Concord and Niagara. Then you will have grapes from very early until very late.

* * *

"I am offered a ten-acre lot in the Indian Spring Land Company's subdivision in Volusia county, Florida, at fifty dollars per acre. It is close to Briggsville station on the Florida East Coast Railway and seven miles from New Smyrna on the same coast.

"I would like to get a line on that part of Florida, as to soil, temperature, rainfall, etc. I am told \$2,000 a year can be made from ten acres if properly worked."

Vancouver, B. C., Canada. J. C. Stuart.

Anyone who purchases ten acres of ground in Volusia County and counts on making \$2,000 per year net therefrom is going to be disappointed. Volusia County is in neither the vegetable nor the fruit section of Florida. It is too far north for the successful and profitable production of fruit and vegetables. I have been going to Florida for many winters, and time and again I have seen all the state north of Palm Beach laid low by killing frosts. In fact no one ever thinks of that section as a fruit section—except the land men who play the game in the north.

I strongly urge you to make an inspection of Florida before you buy land anywhere in the state. A person with sufficient capital can make good returns from a grapefruit grove and vegetables if the vegetable growing is made secondary to the production of fruit. To do this, land of the right soil, character and located right must be purchased. It is not at all difficult to find this kind of soil. The fact is that the successful profitable grapefruit groves are located in a small area comparatively. You will find that when planting is made much north of Miami, the business is not profitable, because it is almost certain to be ruined by frost. The climate in Volusia County is delightful and rainfall abundant. The soil is mostly sand.

* * *

Just now there are a number of nursery firms flooding this section of the country with literature, telling how apple trees on

SPIRALETS

Mark Your Birds Distinctly Without Numbers True colors. Correct sizes

Dark Blue Light Blue Yellow
Red Pink Amber Green
Purple Black White

Size for	13	25	50	100	250	500
Baby Chicks...	\$0.10	\$0.20	\$0.30	\$0.50	\$1.10	\$2.00
Pigeons.....	.10	.20	.35	.55	1.25	2.25
Growing Chicks	.10	.20	.35	.60	1.50	2.50
Bantams.....	.15	.25	.45	.75	1.75	3.00
Leghorns, etc.	.15	.25	.45	.80	1.85	3.25
Rocks, Reds, etc.	.15	.30	.50	.85	2.00	3.50
Asiatics, Turkeys	.15	.30	.50	.90	2.15	3.75
Turkey Toms...	.20	.40	.55	1.00	2.25	4.00

Postpaid. 12 samples and circular 15c. Made by M. BAYERDORFFER HUGUENOT PARK, N. Y.



Fruit the year 'round from your own orchard

Fruit to eat! Fruit to cook! Fruit to can! All the fruit of all kinds that you can use. Doesn't that prospect interest you? Make it more than a prospect—make it a REALITY. Plan to plant some trees and vines and bushes this season and soon be able to pick basketfuls of the most delicious varieties of apples, peaches, plums, pears, cherries, grapes, berries, etc. Fruit is getting scarcer every year—and higher priced. You know how good fruit tastes and how good it is for the family. Don't pay high prices for fruit—when you can grow all you want for so little. Plan a home orchard now. Don't think about it—do something about it. Send for our

Valuable Fruit Book Free

Gives just the information you need. Describes select varieties of fruit, size, color, kind, bearing age, ripening time, etc. Gives our net prices on quality nursery stock.

Neosho Nurseries Co.

Neosho, Mo.

Successors to Wm. P. Stark Nurseries

We sell only one quality of nursery stock—the very best that can be grown—healthy, vigorous, well rooted trees and plants that give "growing satisfaction." When you become our customer we don't stop at filling your order, but also supply complete information on how to plant and care for your trees and plants. We sell direct from nurseries only.

Neosho Nurseries Co., Box 1212, Neosho, Mo.
Please send book as checked:

- Book of Fruit Trees and Plants free.
- "Inside Facts of Profitable Fruit Growing" (10c inclosed).
- "How to Beautify Your Home Grounds" (10c inclosed).

Name _____
Address _____
(Please give County and Street or R. F. D. number.)



J. W. MYERS
President

Early Spring Chicks Make the MONEY

February or March chicks bring twice the profits of those hatched two or three months later; grow to market size when highest prices for meat prevail; to laying size in time for winter eggs and lay all through the winter.

Because of its special method of construction you can depend on the

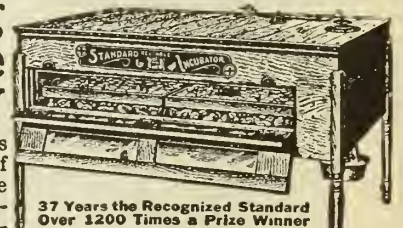
Standard RELIABLE Incubator For Successful Cold Weather Hatching

This incubator is noted for its double enclosed heating system, combining hot air and hot water. Copper hot water tank and hot air system extend entire length of egg chamber—maintain even heat over all the eggs in coldest weather, in any altitude. Perfect regulation of heat, automatic ventilation and moisture supply make it practically self-operating.

Substantially built of thoroughly seasoned timber, nicely finished; top and bottom tongued and grooved; double walls thoroughly insulated throughout; roomy chick nursery; double glass doors; strong legs; all metal lamp.

No Wicks to Trim; No Smoke

No Soot No Odor No Gas



To save your chicks after you hatch them you need the Reliable Oil Heated Hover. Burns kerosene with clear blue flame; automatic regulation prevents waste. Keeps chicks warm and dry. Built of galvanized steel in 30-42-52 inch sizes.

Free illustrated catalog gives full information. Write for it at once and get your incubator started early.

J. W. MYERS, Pres.
RELIABLE INCUBATOR AND BROODER CO.
Dept. A1 Quincy, Ill.





LABOR-SAVING DEVICES EMPLOYED ON THE BARRED ROCK FARM OF J. W. PARKS, BOX J, ALTOONA, PA.

(1) Mash mixer. Mixing mash used to be a tiresome and dusty job before we installed the small power mixer that takes care of a bushel of mash in a few minutes. (2) Grinding machine; one of the most profitable of our satisfactory investments. By its use we are always sure of a supply of good mash. (3) Corn sheller. We generally buy enough grain in the fall to do for the season. Last fall we bought corn in the field at \$1.60 and were grinding and feeding corn this summer at that price, while some others were paying as high as \$2.40 per bushel. (4) Electric light plant. We have only had it installed about a year, but would hardly know how to get along without it. Ordinarily poultry work is a daylight job, but we now do most any kind of work at night. It also helps the women folks by running the washing machine, churn, etc. (5) Big Ben. Even the alarm clock has something to do besides keep time. He is harnessed up to one of our home-made contrivances so that he turns the lights on in whatever pens we want to have extra feeding hours while we sleep.



A BREEDING FLOCK OF BRONZE TURKEYS ON THE FARM OF BIRD BROS., BOX C, MEYERSDALE, PA.
 This fine flock, led by Goldbank V, are all Madison Square winners or bred from winners at that show. Goldbank V was first
 tom at Madison Square, January, 1916.

160 Hens 1500 Eggs



As America's foremost poultry expert I predict that eggs are going to retail for a dollar a dozen this winter. Right now the retail price is from 50c to 75c per dozen in some of the large cities. At a dollar a dozen poultry raisers are going to make tremendous egg profits. You, too, can make sure of a big egg yield by feeding your hens a few cents worth of "More Eggs" tonic.

This product has been tried, tested and proven. It is acknowledged the best and most successful egg producer on the market today. Every day that you don't use it means that you are losing money. Don't delay. Start with a few cents worth of "More Eggs" tonic now.

Got 117 Eggs Instead of 3

That's the experience of one poultry raiser who wrote me. A. P. Woodard of St. Cloud, Fla., writes: "I get from 40 to 50 eggs a day now. Before using 'More Eggs' I was getting only 3 or 9 eggs a day." Here are the experiences of a few others of the hundreds who write me:

"160 Hens—125 Dozen Eggs"

E. J. Reefer: Watery, Mo.
I have fed two boxes of More Eggs Tonic to my hens and I think my hens have broken the record for eggs. I have 160 White Leghorns and from March 25 to April 15 I sold 125 dozen eggs.

"15 Hens—310 Eggs"

E. J. Reefer: Turner Falls, Mass.
I used our More Eggs Tonic and from December 1 to February 1, from 15 hens, I got 310 eggs. Your remedies are just what you claim them to be.

"Layed All Winter"

Dear Mr. Reefer: Lockawana, N. Y.
I gave the tablets to my hens and in three weeks they began laying and layed all winter. I never saw anything like them in the world.

"37 Eggs a Day"

E. J. Reefer: Elwood, Indiana
That More Eggs Tonic is simply grand. When I started using it they did not lay at all, now I get 37 eggs a day.

"Increase from 2 to 45 Eggs a Day"

Reefer's Hatchery: Derby, Iowa
Since I began the use of your More Eggs Tonic 2 weeks ago I am getting 45 eggs a day, and before I was only getting 2 or 3 a day.

"Doubles Egg Production"

E. J. Reefer: Paradise, Texas.
I have been using More Eggs Tonic 3 or 4 weeks and must say it is fine. My egg production has been doubled.

"48 Dozen In One Week"

Dear Mr. Reefer: Woodbury, Tenn.
I can't express how much I have been benefited by answering your ads. I've got more eggs than I ever did. I sold 42 1/2 dozen eggs last week, set 4 dozen, ate combs and had 1 1/2 dozen left. From your friend, MRS. LENA McBRON

"Increase From 8 to 36 Eggs a Day"

E. J. Reefer: Shady Bend, Kansas.
I am well pleased with your More Eggs Tonic. I was only getting 8 or 9 eggs, now I am getting 3 dozen a day. Yours truly, Wm. SCHMIDT.

More Eggs Makes Layers Out of Loafers

This is a concentrated tonic, not a food. It consists of every element that goes toward the making of more eggs. A perfect regulator, aids digestion, stimulates egg production and builds firm bones and strong muscles. The foremost authorities in America and poultry raisers from every state endorse Reefer's "More Eggs" Tonic.

Results Guaranteed!

Here is the facsimile of the guarantee of a million dollar bank that "More Eggs" will produce results. This million dollar bank guarantees to refund your money if you are not satisfied. You run no risk. So don't delay. Every day you wait you are losing money.

Order Today

Send a dollar today for a full-sized package of "More Eggs" tonic; or better yet send \$2.25 at extra special discount, and get three packages. Three packages is a full season's supply. Don't put it off. Order now and start your hens making money for you. Remember, you run no risk. A Million Dollar Bank will refund instantly if you are not entirely satisfied. If you don't order your More Eggs now at least mark on the coupon for Mr. Reefer to send you ABSOLUTELY FREE, his valuable poultry book that tells the experience of a man who, himself has made a fortune and is helping others to make money out of the poultry business. Act NOW. Don't wait. Pin a dollar bill to the coupon. Or send \$2.25 which will guarantee your winter's egg supply. Send for this bank-guaranteed egg producer NOW. Today! It has helped thousands of others and will help you, too.

E. J. Reefer, 3899 Reefer Building, Kansas City, Missouri

A Million Dollar Guarantee

Absolute Satisfaction or Money Back

National Bank of the Republic

CAPITAL \$500,000.
SURPLUS AND PROFITS \$100,000.
KANSAS CITY, MO.

TO WHOM IT MAY CONCERN:

I hereby guarantee that Mr. Reefer will carry out his agreement *** and this bank further agrees to return to the customer the total amount of his remittance, if Mr. Reefer fails to do as he agrees.

Very truly yours,

Wm. H. Hurler
President.

Send a dollar today for a full-sized package of "More Eggs" tonic; or better yet send \$2.25 at extra special

E. J. REEFER,
3899 Reefer Bldg.,
Kansas City, Missouri

Enclosed find \$..... Send at special discount price, with all charges prepaid, packages of More Eggs Tonic. Send this with an absolute Bank Guarantee that you will refund all my money if this tonic is not satisfactory to me in every way.

Name

Address

IMPORTANT: If you don't want to try this Bank Guaranteed tonic, at least mail the coupon for my free valuable poultry books **FREE.**



"She stands pat" on the pledge!

Madam Ancona — from the Sheppard family — stands pat on the pledge. She is helping thousands of homes to SAVE by laying big white eggs at a comparatively low cost. An alive, virile bird is she — with red blood in her veins, vitality in her system, habit to her credit, a beauty in appearance! She has been brought to the highest type of perfection in the SHEPPARD strain.

She lays—and saves!

One of her holds the world's egg laying record for a single bird—a flock of Anconas brought their owner great credit by taking the world's egg laying record for a flock.

She wins prizes, too!

For ten years Mr. Sheppard has taken her kind to the Madison Square Garden show and has carried home nine out of ten possible first prizes. At national, state and county fairs she and her sisters and brothers cover themselves with glory.

She helps cut home costs!

That is her greatest plea, as she suggests that YOU, by adopting her, will effect an economy in the kitchen — and enjoy your own home-gathered eggs of dew-like freshness. The FREE Ancona book tells all about her. Get your copy now.

H. Cecil Sheppard
Box M-2, Berea, Ohio

President International Ancona Club



Doucin stock will produce fruit the second year from planting. Agents are busy taking orders for such stock. I tried out the Doucin stock several years ago and found it to be too tender for this section. Because this is a matter of much importance and in order to make the warning to people in the mid-west not to buy this stock as strong as possible, I give herewith the opinion of Prof. S. H. Beach of the Iowa Station. I hope all readers of A. E. J. at least will be guided by what Prof. Beach says:

"Replying to your inquiry as to planting in this section of the country McIntosh Red and Famense worked on Doucin stock, will say that we have made several plantings of hardy varieties like Wealthy, Duchess of Oldenburg and Longfield on Doucin stock. The stand has not been satisfactory altho some of the trees are still living after having been planted about ten years. This stock cannot be recommended as reliable in this section of the country. I suppose the trees of the plantings referred to which are now living, may have gotten established on their own roots so that they are no longer dependent upon the more tender Doucin roots for nourishment. I cannot say positively that this is the case because I have not made examination."

* * *

"Can you give me any information in regard to dwarf apple trees? Wish to know which varieties are best, also if the Senator, Mother, Mellon, Chenango, Strawberry, Shenawasse Beauty are good, hardy varieties of apples for southern Wisconsin, near Lake Michigan.

"Do you think it profitable to ship honey bees to this locality in the spring of the year?" Dawson Bros.

Wisconsin.

You will not find dwarf apple trees satisfactory in a commercial way in your locality. In fact no thoroly posted orchardist would plant dwarf apple trees commercially in your locality. However, if you desire to plant such trees, you will find Wealthy, McIntosh Red and Senator best suited to your purpose. For a commercial orchard I would advise you to plant Wealthy, McIntosh Red and Senator. Mother is an apple of splendid quality but comes into bearing late and is not very productive. Mellon is no better if as good as Wealthy. The other varieties you refer to are not hardy enough for your section. Neither are they good commercial varieties. You can ship bees in the spring with perfect safety. Be sure you get them from a yard free from foul brood. Be very careful in buying bees.

* * *

"I am sending you three apples for identification. One of them I suspect is a Baldwin altho the tree was bought for a Stark. While the apples were on the trees I imagined that I could detect a difference between the ones on this tree and the ones on my Baldwin trees, but upon comparing individual specimens they seemed almost identical.

"The green apple was grown on another tree bought for a Stark. This tree bore the youngest of four trees that were set out at the same time and it seems to be a prolific yielder as well as an every year apple. Most of the fruit is of good size, probably one-half being as large as the one I am sending you, and many of them larger.

"The third apple was raised by a friend of mine and is called the Boston apple. There are only a few trees of this variety around here as far as I know, and I wish to find out if possible whether this is the correct name or only a local name for some variety more widely known by some other name. The tree is of a decidedly 'weeping type' with long slender branches reaching nearly to the ground. One characteristic which perhaps you can see in this specimen, is the slight twist to the stem, or rather the portion of the apple to which the stem is attached. If you are familiar with the variety I should like to know something of its history. I hope it reaches you in good condition, for I consider it the most delicious fall apple I have ever eaten, and I intend to graft a few scions into my trees next spring.

"If you can give me any information in regard to these three apples, I shall esteem it a great favor." Massachusetts. Chester L. Hayward.

I feel sure that the apple to which you first refer is a Stark. This apple colors differently in different locations. Sometimes it is all overcast with red, then again it is but little so colored. The specimen you sent in is a very good sample of the Stark.

The large green apple is beyond all question a Northwestern Greening. There can be no question as to this. The third apple looks to me like a Porter, altho it is a little better colored than the average run of Porters. There is no recognized variety by the name of Boston. I was greatly pleased with this apple and



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LOOK for "AEM" on Your Thermometers. You will then

be sure you are buying a skillfully made and absolutely accurate thermometer backed by 54 years thermometer experience. This means that if the incubator or brooder you buy is equipped with the AEM thermometer you will be taking no risk of your hatch being either chilled or cooked to death.

Buy From Your Dealer
If he can't supply you with an "AEM," re-
fuse the kind he offers and order direct.

FREE Valuable booklet with hatching hints and il-
lustrated price list. Write today for a copy.

Our Postpaid Prices

- 'AEM' Thermometer for any incubator..... \$.90
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Why Millions of Chicks Die in the Shell

It's because of imperfect moisture regulation. Use an "AEM" Hygrometer and you'll always know exact amount of moisture in your incubator, and get far bigger hatches and bigger, healthier chicks. We make more than a thousand different thermometers for all purposes.

A. E. MOELLER

261-3 Sumpter St. BROOKLYN, N. Y.



Cockerels Cockerels

Bred to Lay S. C. White Leghorns Exclusively
Good, healthy; vigorous, farm raised fellows at \$2 and \$3 each.
Get our catalog. It's free.

The Elliott Poultry Farm
Route 7, Box 87, Mansfield, Ohio

ROYAL Golden Wyandottes

- 100 Cockerels at.....\$5
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- A few topnotch birds for linebreeding or exhibition. Write me.

J. S. PENNINGTON Box A Plainfield, Illinois

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White Orpingtons
S. C. Rhode Island Reds
White Laced Red Cornish SEND FOR CATALOG

Raise Guinea Pigs

FOR US
We supply stock. Laboratories need thousands. Big money and easy and inexpensive to raise. Particulars and book ten cents.
Dr. J. A. Roberts Laboratories, Oconomowoc, Wis.

Partridge Rocks of Quality
Stock and show birds from our Kalamazoo, Detroit and Chicago winners. If you want an especially fine cockerel, order from us—we have him. Well-grown "typy" youngsters at reasonable prices. Also a few very choice cocks. Write us now! No Sunday business. Meadowlawn Farm, Sand Creek, Mich. Mention the American Poultry Journal when writing to advertisers.

would like to secure a few scions from your tree next spring. I will put them on Wealthy stock.

At this writing Missouri grown Jonathan apples are costing dealers here \$9 per barrel wholesale. Iowa produced about 384,000 barrels of apples this last season and growers made a killing—those who properly cared for their trees and fruit. Iowa grown Grimes Golden were surely gold nuggets this season. Several growers in the southwestern part of the state are now getting from \$6 to \$9 per barrel for this variety.

In answer to Paul C. Polk, Pennsylvania:
1. Inasmuch as I know nothing of the soil conditions on your farm I cannot tell you how much phosphatic fertilizer you should apply per acre. It depends on the condition of your land and the richness of the fertilizer. In applying raw rock phosphate you should always associate it with barn yard manure. This manure will liberate the acid in the rock and make it available. Raw ground bone contains about 22 percent phosphoric acid and 4 percent nitrogen. Owing to the presence of some fat in raw ground bone it is slower in decaying than steamed bone. Steamed bone contains 28 to 30 percent phosphoric acid and about 1 1/2 percent nitrogen. Steamed bone can be ground finer than raw bone and the removal of the fat causes it to decay more rapidly. Tankage contains 7 to 18 percent phosphoric acid. Bone black or animal charcoal contains 32 to 36 percent phosphoric acid. Bone black is used to refine sugar; after use by the refineries it is sold as fertilizer.

2. The Red Cross currant was originated by the late Jacob Moore of New York. Mr. Moore was an horticultural enthusiast but a poor business man. C. A. Green, nurseryman, paid Mr. Moore more than \$7,000 for this currant, and had it not been for this money, Mr. Moore would have been a pauper in his later days.

3. Montgomery County, Arkansas, is located on the upper waters of the Owachita river in the mountainous region of western Arkansas. The general face of the country is much broken. A chain of mountains divides it into two parts. Over half of the country is hilly, and about one-third low land and alluvial. The hill lands are well adapted to fruit growing and the low lands produce good general crops. The water is soft. There are many springs of pure water. Lands in that county are advertised by the lumber company having them for sale as producing 25 to 40 bushels of corn to the acre. Personally I would not even think of looking at farm land that would not produce better than that if I were seeking farm land. I advise you to look elsewhere for a "farm home in the south."

4. The Roanoke valley is a subdivision of the Shenandoah valley of Virginia. It is a beautiful and attractive country. The land is rich, producing wonderful crops of hay, grasses, and all general farm crops. The climate is of the best, the water abundant and pure, and the rainfall about 52 inches per annum. I know of no better place to live in all the United States than the Roanoke valley. It is an ideal fruit country. It is settled largely by northern and western people.

5. Yes, you can buy farms in Vermont at prices which appear very low to a western man. There are some of the best fruit lands the sun ever shone upon up there in Vermont. A young man who puts out an orchard of McIntosh Red and Wealthy in Vermont will have something better than a gold mine in a few years and for a lifetime. Vermont raises the best and for a lifetime. Vermont raises the best and for a lifetime. Vermont raises the best and for a lifetime. Vermont raises the best and for a lifetime. Vermont raises the best and for a lifetime.

6. You have been misinformed regarding conditions in western New York. Good farm and fruit land there commands and is worth as much (I think worth more) as the Iowa and Illinois lands. True, you can buy some land in western New York very cheap, but such is not the most desirable.

7. Yes, fruit production and dairying make a good combination. I am of the opinion that the eastern fruit grower of the future will be also a dairyman.

8. If I were to establish a dairy herd what breed would I choose? Well, I have my favorite breed. However, I would be governed in my selection by conditions. I would choose the breed that was specialized in by the dairymen in the section where I located. By so doing I would be able to replenish my herd as needed more cheaply and better in every way.

9. Your last question is one I cannot answer. I do not know if it would be better for you to give up your position and purchase a farm and engage in fruit growing and dairying. No one can or should decide this all important question for you.

Again I want to urge my readers to place their orders for fruit trees and all needed



Egg Prices Will Be Higher

THE days of cheap eggs are past. Even when wartime standards no longer prevail, prices will still be higher than the old levels.

The patient poultry raiser has come into his own. Skilful handling and above all, careful feeding, will bring him big returns the year 'round.

BADGER LAYING MASH

In these times of high feeding costs, Badger Laying Mash has helped thousands of poultry keepers to turn losses into profits. They recommend it as the most successful mash feed and the most economical, because it produces more eggs and keeps their fowls in top-notch condition.

Badger Laying Mash is an honest, reliable, high quality feed that never varies. Chickens thrive on it and lay on it because it is wholesome and easily digested. It contains a liberal portion of high grade meat scraps combined with sound, clean, sweet grains uniformly mixed. It is ready mixed and can be fed dry in hopper or as a damp, crumbly mash.

liable, high quality feed that never varies. Chickens thrive on it and lay on it because it is wholesome and easily digested. It contains a liberal portion of high grade meat scraps combined with sound, clean, sweet grains uniformly mixed. It is ready mixed and can be fed dry in hopper or as a damp, crumbly mash.

BADGER POULTRY FEEDS

Badger Laying Mash and Badger Scratch Feeds will fill your feeding requirements perfectly and profitably. They supply every necessary element for building bone, blood and body and producing full meated, clean shelled wholesome eggs that bring the highest price.

Put your flock on Badger Poultry Feeds. Ask your dealer for Badger Laying Mash, Krause Scratch Feed, Blue Top Scratch and Conservation Scratch. Order your winter supply at once. Send for free samples and literature.



CHAS. A. KRAUSE MILLING CO., Milwaukee, Wisconsin
Manufacturers of the Badger Line of Poultry and Farm Feeds

Again at the Front



Scores of well-developed Sunswick Show Birds await orders. They are bound to win the blue for someone. Will it be for you?

SUNSWICK S. C. BUFF ORPINGTONS

excel in type and color. We've plenty of classy Breeding Birds on sale at all times. We realize that poultrymen must figure closely in war times. You'll find our prices moderate, quality considered. The word to the wise is: "Buy early this fall." Write and we'll tell you why. Write for catalog.

SUNSWICK POULTRY FARM, Rufus Delafield, Owner, Box J, SO. PLAINFIELD, N. J.

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EGGS WHITE OR BROWN EGGS

net, no commission; returns day of arrival.

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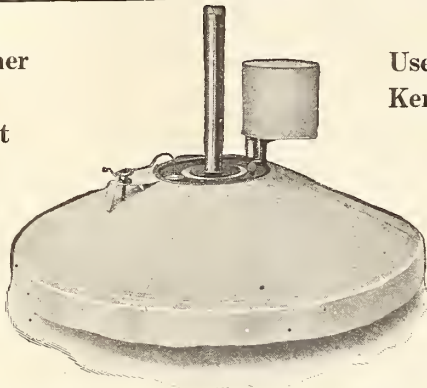
Plenty of Heat



Automatic Valve



Perfect Ventilation



Uses Common Kerosene Oil



Burns Less Than One Gallon of Oil Per Day

HARRYSBOURG BROODING DEVICES ARE DEPENDABLE. Last spring the Government ordered a sample hover for the Government Farms at Panama, and on September 20 we received its order for twenty more. Constructed for long service, stove has cast metal top, and cast metal rim around the top edge of canopy; HEAVY METAL WICKLESS BURNER, making a perfect blue flame like natural gas, and burning continually the entire season without cleaning.

PLENTY OF HEAT for coldest weather. Absolute control of heat in mild weather.

AUTOMATIC VALVE working like a carbureter.

VENTILATION SYSTEM producing strong, healthy chicks.

MADE IN TWO SIZES. Large 50-inch canopy, capacity 100 to 600 chicks, and small 33-inch

canopy (burning three days on one gallon of oil), capacity 50 to 200 chicks.

SPECIAL OIL-BURNER STOVE. If you wish to change from coal to oil, we furnish you with our special stove which you may use with your coal stove canopy.

SEND FOR CIRCULAR. We can interest you

Harrysbourg Poultry Farm, Inc. : Dunkirk, N. Y.

nursery stock right now. Prices of all nursery stock are sure to be advanced next spring. Cost of production has greatly advanced and nurserymen must ask more for stock. Don't consider cheap stock at this time.

* * *

In answer to Mrs. C. W. Lambricht, New Mexico: Mericadel grape is one of the Munson creations. Like most of the Munson varieties it is suited to southern planting only. It is a hybrid of America with Delaware. The vine is very vigorous and productive, clusters large, fruit medium and of high quality. It is a very profitable grape in Florida and other southeastern states. I do not consider it suitable for your location. However, you might try a very few vines.

Yes, Senator apple is suited to your state. In fact I think it is perfectly at home in New Mexico. It is a beautiful apple of high quality, tree hardy and very productive. It requires a special system of pruning to do its best. Early Elberta and J. H. Hale peaches would give you the ideal planting. Mellon apple would be better for your planting than Wealthy. I know of no black currant that is as productive as the red sorts. I do not think you would find a five acre planting of black currants profitable. You are too far from the market, altho you might work up a demand for this fruit in New Orleans. I think the Florence crab worth all other crabs put together.

* * *

"I own a small farm of ten acres near Bayard, Columbiana County, Ohio, and wish to set our several cherry, pear, peach and plum trees next spring. What month will be best for setting these trees in this section and also what varieties would you advise me to put out. I want both early and late fruits. I have about 100 bearing fruit trees on this farm. What do you think of the location for raising fruit and poultry? Where would you advise me to purchase the trees?"

Ohio.

E. B. G.

Would make the cherry planting all of Montmorency. By so doing you will be able to get most of the crop. If you made a home orchard planting of early and late kinds, the birds would get most of the fruit. You will find Red Bird, Early Elberta, J. H. Hale and Krummel October peaches the best varieties. Such a planting will give you peaches from early till very late—the best kind of a home supply. Plant Omaha, Gold, Endicott and America plums. Set out the trees in April as early as possible. There are several good nurseries in your state. Of course, I know nothing about the lay or character of the land upon which you will plant these trees. If you can plant them on elevated land all the better—but plant them anyway. You are in a good fruit section. In fact there are mighty few places in all America where a satisfactory home orchard cannot be maintained.

* * *

I am in receipt of three letters wherein the writers take issue with me in my statement regarding the double mating of certain breeds and varieties of fowls. One of these letters is from a gentleman who kindly and ably states his side of the case. The other letters are from fellows of a different kind and were promptly consigned to the waste basket. The gentleman's letter has been duly answered and I hope I shall hear from him again. It is a matter of entire indifference to me what lines of breeding other people pursue, and I am not at this time asking advice as to how I shall breed my favorite fowls.

* * *

I want to thank J. H. Drevenstedt for his kind words and personal reference in a recent issue of the American Fancier. One word of praise from J. H. Drevenstedt is praise indeed.

* * *

I find the following in the report of the annual meeting of the New York Guernsey Cattle Club:

"Charles D. Cleveland, New Jersey, gave a demonstration of the new score card adopted by the American Guernsey Cattle Club."

Heavens! I hope Mr. Cleveland has not become a score card advocate and will insist upon turning back the wheels of progress and use the score card in the New York poultry show.

* * *

The many friends of B. G. Pratt of New York will regret to learn that he met with severe injuries while at work in his apple orchard in Virginia and that he is now confined to his bed at home.

* * *

"I have a snow ball and a lilac bush which I would like to transfer to a different location. Can it be done? If so, when is



Pearl Grit Makes Hens Lay

INTENSIVE egg production is not a dream. Hens must have lime, carbohydrates and silicon to increase the eggs in number and quality. These essential shell and albumen forming elements are found in every grain of

Pearl Grit

Helps Hens Lay—Makes Poultry Healthy

Pearl Grit serves a double purpose. It not only adds to egg production but it is a perfect grinder, stimulating digestion and keeping your poultry well.

Write for Free Booklet giving much valuable poultry information.

Ask your dealer. If he can't supply you, we will send you a pound trial package of Pearl Grit postpaid for 10c.

THE OHIO MARBLE CO. 118 Cleveland St., Piqua, Ohio



Choice Cockerels of the Foremost Winning Strains

BUFF ORPINGTON
Cockerels from first cock, 1916 Coliseum show.

S. C. W. LEGHORN
Cockerels, Smith's strain, none better in the world.

R. C. ANCONA
Cockerels, from first cockerels both Chicago shows, 1917-1918.

H. T. WINDSOR, RIDGELAWN, BATAVIA, ILL.

Guaranteed Winners

HUNDREDS of "Aristocrat" Barred Rocks have now grown up into superb, magnificent show birds—ready to step right into the show-room and win out. While the "Aristocrats" have shown wonderful quality in past years, this year they are in actual fact more glorious than ever—so surpassingly beautiful, so truly marvelous in quality all over that you have never seen their equal. This is why I guarantee them so cheerfully, so absolutely as show birds to all exhibitors—anywhere—against any and all competition. You cannot even picture to yourself the great glory of these phenomenal birds this season, for they will be better than you picture them—better even than my catalog shows them.

The "Aristocrats" Have Made a World's Record

by their sensational sweep of victories from ocean to ocean—from the Grand Palace Show of New York to San Francisco; from the foremost shows of Canada down into South America, Australia, and Asia—winning out at these greatest Barred Rock shows of the entire American continent: The National Barred Rock Show (the greatest of all the great ones), Chicago, New York Palace, Guelph, New Orleans, the "Tri-State," the "World's Fair," Cleveland, Texas State, Detroit "Round-Up," Kansas City, Los Angeles, Indianapolis, at one state show after another throught the entire Union, and in many, many hundreds of other large shows. This is simply an indication of what they already have accomplished and

THIS SEASON THEY ARE STILL BETTER

Therefore, if you need Barred Rock show birds for any show (no matter how large, or how small) write me fully and I will furnish you the winning birds. Nothing will create more good business for you than winning out in the show-room over your competitors. **THE "ARISTOCRATS" WILL WIN FOR YOU.** I want you to win. I will help you to win. Simply write me, telling me where and when you wish to win out and depend on me altogether. You will find the "Aristocrats" bringing home the ribbons, the glory and the prizes for you.

I have a wonderful collection of cockerels, pullets, hens, cock birds and pens and can furnish you with Barred Rock winners in any class you wish to fill.

Remember, Holterman is the man who is furnishing to other breeders so many of those powerful winners in the world's foremost shows



W. D. HOLTERMAN, Fancier Box A FORT WAYNE, INDIANA, U. S. A.

EGGS which produce such show birds: 15 for \$10; 50 for \$25; 100 for \$50; 500 for \$200.

Sabrina Farm White Wyandottes Combine

BEAUTY with UTILITY

- 1st Hen
- 2nd Old Pen
- 2nd Young Pen
- 4th Cockerel
- 4th and 5th Pullet
- 2nd Best Display

1st Farmer's Flock
SPECIAL PREMIUM
 for
BEST OF ALL FARMERS' FLOCKS
 36 COMPETING

OUR BIRDS ARE HEAVY LAYERS
and are
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We offer at reasonable prices, both UTILITY and EXHIBITION STOCK

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At the NEW YORK STATE FAIR,
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STOCK White Plymouth Rocks STOCK

FISHEL STRAIN DIRECT

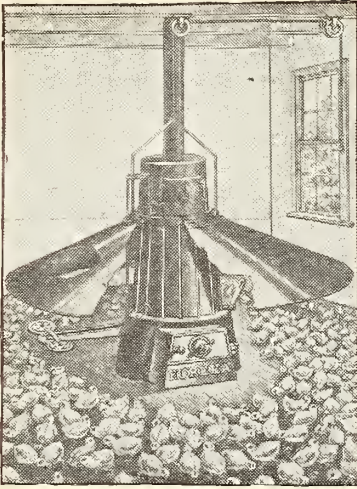
April Hatched Pullets and Cockerels, and Yearling Hens

Good-sized, vigorous birds, bred under ideal conditions. Standard quality and good layers. Write your wants and get our prices

BLUE GRASS POULTRY FARM

ED TAYLOR, JR., Mgr.

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SURE MONEY
For Dealers and Farmer Agents
 With the New Improved
Eureka Colony Brooder
Best Brooder Stove Proposition
on the Market

This wonderful brooder raises the chicks instead of smothering them. It is absolutely gasproof, can be operated at a cost of only five cents per day, and being self-regulating needs attention only once every 24 or 48 hours (dependent on the weather). The price for 500-capacity is but \$18.50; for 1000, \$22.50. You can make real money selling this brooder—its quality, construction, automatic features and general efficiency impress on sight. Experience is not needed. Send at once and get the rights for your territory. We make the Eureka right and we treat our agents right.

Price is low—discount liberal
James R. Wotherspoon
 240 N. Front Street Philadelphia, Pa.

the best time of year to do it and how should I go about it?"

Michigan. R. Wynn.
 With the right kind of handling these bushes can be transplanted in the fall. It would have been better had you transferred the lilac bush to its new quarters in October or early November. The lilac should be transplanted when dormant. Remove it as early in the spring as possible. Transplant the snow ball at the same time.

One of our most profitable crops this year was the Hubbard squash. Everybody seemed to want them. A crop of squash can be grown at practically no cost.

"I intend to set 75 or 80 apple trees in the spring, of the following varieties—Delicious, McIntosh, King David and a few Golden Delicious. For our climate, do you consider there would be any advantage over trees from a good nursery like Stark Bros. in setting Virginia Crab, growing same for a year and then top-working them to the varieties named above? Are they any more hardy or productive?"

"I notice a nursery company in Des Moines has stock for sale, top-worked on Virginia Crab and also on Wealthy, but at a price almost beyond question for any number of trees.

"I also notice you highly recommend the Senator apple. Is this an early bearing apple and how does it compare with King David for yield and early bearing?"

Illinois. Dr. R. G. Chamberlain.
 The varieties you have selected are all of splendid quality, hardy and productive, and with the exception of Golden Delicious are red—the colored apple demanded by the people. Golden Delicious is a beautiful golden yellow apple of high quality. In my trial grounds the tree has made splendid growth. It went thru last winter (30 degrees below zero) without injury.

I advise you to plant standard trees of the varieties you have named. They are absolutely hardy in your section. Nothing could be gained either in hardiness, growth or fruitfulness by top-working Virginia Crab to Delicious and McIntosh Red. By all means plant standard trees of these sorts. King David is not quite so hardy as Delicious and McIntosh Red, but fully hardy in your locality. Some of my trees have withstood 33 degrees below zero.

Top-working apple trees on harder stock is all right if the proper stocks are united. I have had considerable experience in this work. Not all varieties will properly unite. I placed Senator on Virginia Crab. Senator grew stocky and soon the Senator stock was much stronger and larger than the crab stock. Of course such a poor union caused the trees to split and they were ruined. I have had this experience with several varieties. I have Jonathan, King David, Grimes' Golden, Senator and Iowa Brilliant worked on Hibernial. They make a perfect union. Grimes' Golden worked on Delicious makes the ideal union and tree. Such varieties as you have selected need no such aid to their hardiness.

I was in the experimental orchard at the Iowa Agricultural College grounds a short time ago and Prof. Beach spent several hours among the 3,000 seedling trees. Here we found all sorts of unions, good, bad and fairly good. Prof. Beach prefers the Hibernial as a stock upon which to top-work most other varieties.

I am going to try several varieties on Siberian crab roots, that is roots grafted with the Siberian crab root as the basis. I have an idea that I will get a young bearing tree but do not expect any other advantage in these trees over standard trees. They will all be standard trees in a few years for they will finally get into their own roots.

The Senator is one of the very best of apples. It is a good tree, apple beautiful red and of fine quality. Tree is hardy. It is a winter apple. I advise you to plant a few of this variety.

Almost 1919! May it be a year of health, prosperity and happiness to all readers of the American Poultry Journal, and may the world be released very soon from the chains of war.*

*Just as Mr. Rigg's copy reached Chicago, the chains broke, and the pandemonium of their clanking which came thru our windows testifies to the worldwide joy.—Ed.

How to Build Poultry Houses
 of all kinds and descriptions. It gives complete plans. How to make feed troughs, nest boxes, water troughs, roosts, dropping boards, brood coops, brooder houses, fattening coops, colony houses, winter and summer houses, etc. Price 50c. AMERICAN POULTRY JOURNAL PUB. CO. 523 Plymouth Court Chicago, Illinois

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Partridge Wyandottes
 and
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Distinctively Individual

Imported Rufus Red Belgian Hares of Quality

High-class exhibition and breeding stock for sale at all times

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SHEFFIELD FARM H. B. HARK, Mgr. GLENDALE, OHIO



U. S. MARINES
 (Star Spangled Banners)
 Fighters, layers, and beautiful beyond description. Red, White and Blue.

INVINCIBLE
"Pure Game Fowls"

Delicious, gamey flavored flesh

healthy hustlers and wonderful winter layers. "Nothing better in the world." Am now booking orders for best "U. S. Marine" eggs at \$5 per 15, or 45 eggs for \$12. Also booking orders for select young trios for next June delivery at \$10 per trio. If you want a combination of beauty, utility and a feathered symbol of American gameness, then nothing in the feathered race will please you better. Information free.

Alfred F. Graham, Cameron, N. C.



"SOUTHERN GUARDS"
 The greatest fighting generals that ever steel.

S. C. White Leghorns **TRAPNESTED**
—for 8 years—

Egg Record of 290 in 13 Months Orders for eggs and baby chicks booked now. SAFE DELIVERY GUARANTEED. My stock is giving satisfaction everywhere.

CARL J. JENSEN North Avenue WAUKEGAN, ILL.

Silver Wyandottes -- Red and Speckled Sussex

A. & E. Tarbox We have a choice lot of Coeks, Hens, Cockerels and Pullets for sale at prices that are right. Send for catalog and tell us what you want. **Box A, Yorkville, Ill.**

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ENDORSED, RECOMMENDED AND USED BY AMERICA'S MOST SUCCESSFUL POULTRY RAISERS

Licene Exterminates all Chicken Lice as if by Magic

When such breeders as Mrs. Helen Dow Whitaker, E. B. Thompson, Dr. N. L. Smith, A. C. Hawkins, O. F. Mittendorf, Prof. T. E. Quisenberry, Len Rawnsley, U. R. Fishel, A. A. Carver and thousands of other big breeders that have had years of experience in raising poultry, endorse and use a preparation as the best, it must have exceptional merit, and will do all that is claimed for it

LICENE Makes Hens More Profitable

No hen can lay her best when tormented by lice. Kill the lice and watch the increase in your egg production. John G. Poorman, Tinley Park, Ill., the owner of "Lady Show-you," the \$800 hen, and breeder of the celebrated 200-egg strain, writes:

"Lice is the one great factor in determining success or failure in the poultry business. If exterminating lice means success, and it surely does, LICENE should be given all the credit. I would as soon be without feed as without LICENE, for without either profitable egg farming is not a success."

LICENE Cheapest Lice Killer Known

Price, 60c a Tube, Postpaid Sufficient for 150 to 200 Fowls

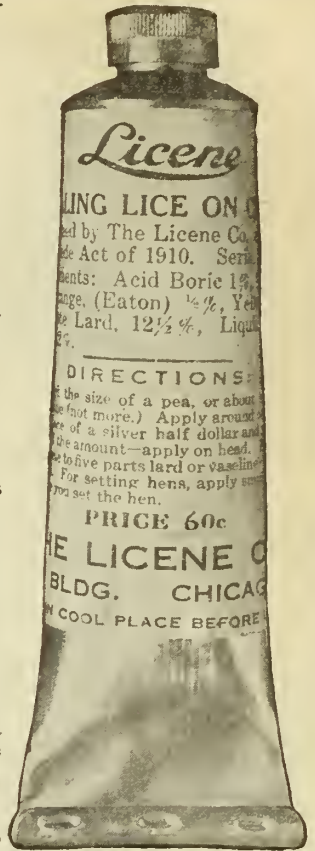
LICENE is applied twice a year, but many report that they have found one application a year sufficient. When you stop and consider that one tube is sufficient for 150 to 200 birds, you must realize that LICENE is cheaper than lice powder and liquid lice killers. It is also more conveniently handled and more easily applied, saving time, labor and money, making LICENE not only the best but cheapest lice exterminator the world has ever known. Put up in collapsible tubes, which prevents waste. Remember LICENE will not injure the birds in any way or destroy fertility of eggs, so with our positive guarantee you take absolutely no risk in giving LICENE a trial.

Positive Satisfaction Guaranteed or Money Back

If Licene does not destroy every louse and "nit" (egg of a louse) or does not clean scaly legs on your chickens, or if applied on sitting hens, and does not prevent head lice on chicks—you are the judge—we will refund your money if you notify us (or our agent) within one month after receiving Licene and no questions will be asked.

The Poultry Doctor FREE This little book is worth its weight in gold to any one raising poultry. Thousands of poultry breeders are following its suggestions with success and profit. It contains 16 different tested and proven formulas of remedies for disease common among fowls. It is invaluable to the beginner and experienced breeder alike. Remember it is absolutely FREE, so just send your name and address for it.

THE LICENE CO., 1500 Pontiac Bldg., CHICAGO, ILL.



The Country Needs Millions of Chickens —You Need the "Successful" Incubator

Hatch Two Chicks, Where You Produced Only One Before

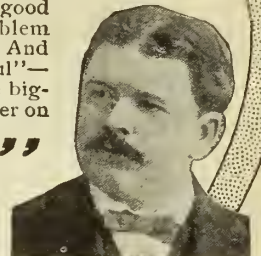
Successful Incubators will do it, and the country needs every chick you can raise. Never have poultry raisers had a bigger chance to help the country and make good profits themselves. Help answer the food problem—raise more chickens—get more eggs—sell more meat. And this year of all years you need the time tried "Successful"—backed with 26 years of experience—the machine used by the biggest money makers in the poultry business. Write for my 1919 offer on

"SUCCESSFUL" Incubators and Brooders

The only incubator I know of guaranteed to be cabinet made. The only hatcher that heats around the colder edges of the body first. Guaranteed to vary not over a fraction of one degree throughout the entire hatch—because of the fact that our own patented lamp and water thermostat regulator are 99.9-10 per cent perfect.

Sold Under the Strongest, Most Liberal Guarantee to Hatch a Chick from Every Hatchable Egg

"Successful" Incubators have been built and sold for twenty-two years. "Successful" Brooders, too, are built too good to compare with others. Raised floor, glass drop top, real hot water heating plant, rain and cold proof. Write for catalog and prices.



J. S. GILCREST, President
Life Member American Poultry Association

Get 50 Per Cent More Eggs
Feed sprouted oats. Change 1 bushel oats into 3 bushels green, tempting, egg-making food with a "SUCCESSFUL" Grain Sprouter. Made in all-steel sections, fire-proof—double steel walls, separate sections. Save one-third on feed cost. Write now for circular and prices.

Poultry Lessons FREE to every buyer of a "Successful" Incubator or Brooder. Famous little booklet, "Proper Care and Feeding of Chicks, Ducks and Turkeys," sent for 10 cents. Big catalog is free. Send for it.

J. S. Gilcrest, Pres. and Gen'l Mgr.
Des Moines Incubator Co.
1 Second St.
Des Moines, Iowa



Don't overlook the fact that "Successful" Incubators have had 26 years of experience. Write for my 1919 offer.

If interested in hatching in big numbers, state hatching capacity desired and write for special proposition

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Lady Glenco, Champion Hen of Heart of America Show, Kansas City

Glenco Black Orpingtons

Write your wants.

Dr. G. H. Humphrey Woodbine, Iowa

S.C. Black Minorcas Giant B. Turkeys



2d BLACK MINORCA COCK Coliseum, 1917

NOW ready with a choice lot of young birds, bred from and in line with the birds that have WON at CHICAGO SHOW since 1914—five SUCCESSIVE years. Also a few choice adult birds. Prices very reasonable. Shipped on approval always.

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ROYAL POULTRY FARM

Box 500 OSSIAN, IND.



COCKERELS

Single Comb
White Leghorns

\$3.00 and up. Order early and get your choice. Trios and Pens. Catalog Free

SUNLIGHT POULTRY FARM
Box A LYNCHBURG, OHIO

WINNING KIND

Buff Orpingtons

War conditions would not permit me to raise very many chicks this season, but I have a few cockerels left and a cock bird or two. The price will be lower now than after they are in winter quarters.

T. W. ROGERS Box A LAMONT, IOWA

RAISE HARES FOR US
Belgian Hares, NewZealands and Flemish Giants.
Profits Large. We supply stock and pay you \$2 to \$10 each. Also other Fur Animals. Contract and 2 Instruction Books for 10c. None free. **OUTDOOR ENTERPRISE Co.** 702 Gumbel Bldg., Kansas City, Mo.

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AND RELIABLE information on all varieties consult
THE LEGHORN WORLD Box 120 WAVERLY, IOWA
Six months' trial, Subscription 10c

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Questions and Answers

Conducted by
Prince T. Woods, M. D.

Questions about poultry are answered in this department free for all readers of American Poultry Journal. Where answers are desired by mail, a stamp for reply is requested. Address all query letters to the managing editor, Dr. Prince T. Woods, Lock Box 4, Silver Lake, Mass.

White in Earlobe of R. I. Red.

Q. I have an S. C. R. I. Red cockerel of good plumage and shape, an excellent bird in all ways, except he has part of both earlobes showing white. The parent stock did not show this defect. How can I correct it and color earlobes red without injury to the cockerel? If it is not colored will it show up in the chicks of his get?

Monticello, Ark. V. F. P.
A. It would be faking to attempt to remove the white from earlobes and if you succeeded in removing it or in coloring the lobes this would not have any influence on the breeding quality of the specimen. Would let the earlobes alone. If he is all right otherwise and from sound parent stock, would breed him to a few selected females. It is not likely that any large percentage of the chicks of his get will show the defect, since his parents were free from it.

eyes, just a puffed-out appearance. The turkeys were raised under common hens. I had 31 but have only ten left. These are all sick and don't grow much. I have treated them without results. My turkey hens have raised another brood and I would like to know if I should kill these sick ones, as I am afraid they might infect the later hatched ones. Is there any cure?

Raymond, S. D. Mrs. E. W. B.
A. The catarrhal colds of your turkeys may possibly be of a contagious character, so would certainly keep them away from the later hatched, healthy stock. If they are stunted and do not grow it may be best to kill the sick birds. If you desire to try treatment, cleanse nostrils and mouth carefully with some preparation like glycothymoline and then apply a little camphorated vaseline to nostrils and roof of mouth.

Feeding Ensilage to Poultry.

Q. Is it safe and all right to feed corn and kafir corn ensilage to poultry? If so, in what manner should it be fed?
Cambridge, Kansas.

C. B. W.
A. Yes, if the ensilage is bright and sweet. Do not feed it if spoiled or moldy. It may be fed plain once a day, what the fowls will clean up promptly, or it may be mixed with the moist mash in proportion of about ten percent.



First Single Comb Ancona cockerel at Madison Square Garden. Owned by H. Cecil Sheppard, Lerca, Cal.

Ancona Information Wanted.

Q. Do Ancona breeders issue any book of information on Anconas and breeding same? Is there an Ancona Club from which I can secure information concerning this breed of fowls?
Dr. C. B. Weagly

Middletown, Md.
A. Write R. W. Van Hoesen, Franklinville, N. Y., secretary of United Ancona Club.

Artificial Incubation of Goose Eggs.

Q. Can goslings be successfully hatched in an incubator and raised in a colony brooder?
J. D. S.

Indianola, Iowa.
A. Goose eggs can be incubator hatched but it requires skill and experience to get good results. Goslings are readily reared in colony brooders and require brooding for a comparatively short time only.

Green Cut Bone.

Q. Would like to know the value of green cut bone for poultry. Is it as good as beef scraps or fish scraps and can it be used in place of these? Is green bone good for growing stock and breeders? Does it have any effect on fertility of eggs.
R.

Wausau, Wis.
A. There are considerable differences of opinion among poultry keepers concerning the value and use of green cut bone. If sound sweet beef bone can be secured at low cost, green cut bone can be used to advantage for laying stock. In limited quantities it is good for breeders and growing stock. If breeding stock are overfed on green bone it may get them out of condition so that fertility of eggs is affected. Cut green bone, when sound and sweet, is an excellent animal food for fowls. It heats and spoils quickly after cutting. In most localities it is difficult to get a regular supply of bone at a sufficiently reasonable price. Bone for poultry feeding should be freshly cut. If a regular supply is obtainable it can be substituted for scraps. Overfeeding on cut bone, or feeding tainted or heated cut bone, may cause indigestion and diarrhoea. Analysis shows following composition: Green bone, water 6.9, ash 24.5, protein 22.3, fat 16.5, calories in 1 ounce 69; beef scraps, water 1.3, ash 8.0, protein 58.0, fat 32.9, calories in 1 ounce 154.

Bowel Trouble.

Q. Several of my hens have bowel trouble, the droppings are watery, colored yellow, then green. The fowls lose appetite, comb becomes dark purple and finally they die, seemingly from weakness. There are about 75 hens in flock, the house is large, sunny open front. They have free range over wheat fields, corn fields and orchard. Clean water vessels every day. Keep grit, oyster shells,



GRAND CHAMPION MALE
(Chicago, January, 1918)

GRAND CHAMPION WHITE ROCKS

In my yards this season, my Grand Champion Chicago Male (pronounced by all judges the Best White Rock Male ever shown) has produced a GRAND LOT of

COCKERELS and PULLETS among which are some HIGH-CLASS EXHIBITION BIRDS. I also can spare a few Grand Exhibition Hens and can fit you out with WINNERS in Cockerels, Pullets and Hens. Also

HUNDREDS OF FINE BREEDING BIRDS

Mated for best results for my customers. GET THIS GRAND CHAMPION BLOOD in your flocks and get started on the RIGHT ROAD in White Rocks this season. PRICES: Cockerels, Pullets and Hens, \$5 to \$25 each, according to quality. Orders for

EGGS AND BABY CHICKS

from my 1919 matings, booked now for early delivery. Let me know your exact wants and get my quotations before placing your orders elsewhere. [A PLEASSED CUSTOMER OR NO SALE] MRS. LOUISA WHITE, Dept. A, WASHINGTON, ILL.



RUDY'S PERFECTION 800 FINE BIRDS FOR SALE
WHITE WYANDOTTES

- 275 cockerels at \$5 each
- 130 cockerels at \$8 each
- 90 cockerels at \$10 each
- 300 pullets at \$5 each

These are all vigorous birds, bred and reared on free range at my home farm. Also 30 choice breeding pens, 4 females and 1 male, at \$35 20 choice breeding pens, 6 females and 1 male, at \$50

I have some very choice exhibition stock that would win in keen competition. The stock I raised this year meets my best anticipations.

GEO. H. RUDY : : MATTOON, ILL.

Get Winter Eggs

In these winter months eggs are what we are after. Hens in good condition, properly fed and housed will do their duty, and fill the egg basket as they should. Green Food is necessary, but troublesome and expensive. Most birds do not get enough. Give them instead Succulenta in their drinking water.

Succulenta

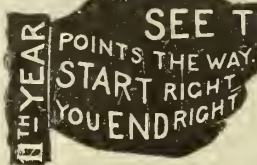
contains the most important constituents of Green Food, without the parts which are of no benefit. Hens know Greens are good for them. That's why they eat them. Simply dissolve one water in a quart of the bird's drinking water. No labor, no bother. Not a drug, nor a remedy, but a food. Wholesome and harmless. You will see the result in your egg yield. If Succulenta is not entirely satisfactory, your money will be returned without a quibble.

Harvey A. Drew, Vernon, N. J., writes: "I herewith enclose an order for \$5 worth of Succulenta. A pen of 5 pullets that were Succulenta chicks won the December Cup in the National Egg Contest with 113 eggs." He says Succulenta is "a great help in raising chicks." Try Succulenta in your flock.

Succulenta will make your chicks grow and your hens lay. When ordering please give your feed dealer's name.
100 Wafers postpaid \$.50
250 Wafers postpaid 1.00
500 Wafers postpaid \$1.75
1000 Wafers postpaid 3.00

The Succulenta Company, 11 Campbell Street, Newark, N.J.

WE CHALLENGE



any person in the world to hatch one egg the Magic Egg Tester registers unattachable before incubation. 2d. We challenge anyone to produce evidence of one 200 egg layer that was not hatched from an egg rated good by the Magic Egg Tester. It is a sure loss to take a chance on weak eggs. Unimpeachable testimonials. You save and make money when the Magic Egg Tester picks out the eggs for hatching. Don't use weak eggs. It kills the profits, and nearly kills you. This device also helps to regulate moisture. Price \$2.00 and no expense to use.

One year's trial given. Money back if not satisfied. Orders filled by Insured Parcel Post. Sold by Poultry Supply dealers throughout the country, or by the Magic Egg Tester Works, Dept. B Buffalo, N. Y., also Bridgeburg, Canada

Look! Fine Breeding Stock and April Hatched Pullets For Sale at Right Prices



100 each of yearling hens and April hatched pullets in S. C. Brown Leghorns, S. C. White Leghorns, S. C. Buff Leghorns, Barred Rocks, S. C. R. I. Reds, S. C. Black Minorcas, Anconas, White Wyandottes, Black Langshans and Buff and White Orpingtons. Fine cockerels in all these breeds. Send for circulars. **NABOB POULTRY CO. --- Gambier, Ohio**



DAD'S CHRISTMAS PRESENT

The 1919 Model of our well-known "American Bankroll"—a combination Billfold, Coin-purse, Checkbook holder, Card and Photo-case, 3x4 1/4 in. folded, of Fine Black Seal Grain Genuine Leather, postpaid, only **69c** (\$7.45 Per Doz.)

Iron strong, yet wonderfully limp and flexible. We engrave any name in 23-K Gold free (name of city 20c, street number 20c, Fraternal Emblems 25c extra). You'll find place for coins, currency, cards, photos or passes, etc. Also the Memo-Diary, an interesting book of 48 pages, brimful of necessary information, such as First Aid, Presidents of the U. S., Health Information, Dates and Payments due, Addresses and Telephone Numbers, etc.

The American Bankroll is also sold in a very strong Black Morocco Grain Genuine Leather for **\$1.00** (or **\$10.80** Per Doz.)

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charcoal before them all the time, also a good commercial laying mash. They eat during the day about 8 quarts of thick clabbered milk. At night I feed them two quarts of commercial scratch feed and in morning the same. On floor of house there is always deep wheat straw litter. The dropping boards are thoroly cleaned three times a week, and after cleaning covered with land plaster, so there is never any moisture or odor. House is thoroly cleaned and whitewashed every spring. Am I feeding too much or is it the fault of the damp weather we have had for some time? Would also like to know if a good meat scrap should be kept before them or fed now and then in laying mash.

Langhorne, Pa. A. W. B.
A. You are feeding rather liberally for fowls which are having so much forage. It is probable that they are getting overmuch new wheat and corn from the fields, which, in addition to free use of clabbered milk and laying mash, has put them out of condition. Bowel trouble is probably result of indigestion from overeating. With so much clabbered milk and commercial mash they do not need meat scrap. Would cut down the supply of mash and feed less sour milk for a while. Would also restrain them from ranging in grain fields now that damp weather has molded part of fallen grain.

Chicks Discolored About Vent.

Q. I have about 150 springers that weigh from 5 to 6 pounds each. Killed some of the cockerels last week and found the skin around the rectum was green and they were not marketable. These chickens were never sick and have never had any medicine. What could cause this trouble?
Scranton, Pa.

J. D.
A. We doubt if many of the chickens are so affected. Possibly it is due to injury. Would keep the flock off green range for two weeks and feed largely on corn, then kill and dry pick a few of them. We think you will find them all right.

White Chicks from Blue Andalusians.

Q. Is it possible for Blue Andalusians to breed white chicks? I bought a Blue cock from a breeder and bred him to ten of my Blue hens. Out of 65 hatched I had 20 white chicks. I wrote the breeder about it and he said the cock is from choice stock. I think he is mixed with White Leghorn.
Watson, Ill.

A. D. H.
A. Your Blue Andalusian cock is probably all right and a thorobred. While the Blue Andalusians are one of the oldest and purest of breeds, blue is not a natural color in the plumage of domestic fowl and is a combination of three colors, viz.—black, white and red. Blue Andalusians will throw blue chicks, white or splash white chicks, black chicks, and an occasional sport showing salmon color. Here is what Walter J. Choates had to say on the subject in A. P. J. for March, 1918:

"Blue mated to blue is supposed to produce 50 percent blue chicks, 25 percent black, and 25 percent splash white. A 'splash white' is a white bird having splashes of blue or black feathers interspersed thruout its plumage.

"Three distinct matings—the three matings preferred by our best exhibition fanciers—belong to the category above given of blue mated to blue.

"1. Standard exhibition blue males mated to standard exhibition blue females. Ground color should be clean and lacing distinct in every section of birds so mated. Also in the two following matings.

"2. A male of dark even blue ground color and distinct wide lacing, mated to females of very light blue ground color and narrow lacing.

"3. A male of light even blue ground color and narrow lacing, mated to females of very dark blue ground color and heavy or wide lacing.

"Black mated to splash white is supposed to produce approximately 100 percent blue offspring. This mating is much used and preferred by the breeders of utility Blue Andalusians, but is in some disfavor among many fanciers, because the resulting offspring is apt to lack in evenness of ground color and in uniformity of lacing. The combinations used are:

"1. A splash white male mated to black females.

"2. A black mated to splash white females.

"The breeder should, of course, be careful to select specimens of proper shape or type for his breeding pens, remembering that 'type makes the breed, while color makes the variety.'

"The occasional 'sport' offspring that shows salmon brown, or red, or golden brown, in plumage should not be used in the breeding pen by a novice; and, in fact, the main value of such birds consists in the

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My flock is the result of careful breeding from the best foundation blood imported from England and Belgium. In competition with the world's foremost Campine breeders, they have consistently won the highest honors. This fall—the fall of 1918—I have the finest flock of trap-nested, exhibition and high egg-laying Campines in my poultry history.

If you wish a pen or trio of these marvelous layers of large white eggs, write me, as my prices are reasonable. If you wish exhibition stock for any show in the country, bar none, tell me your wants, and I will guarantee to supply your needs.



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MY FLOCK OF

ROSE COMB BLACK MINORCAS

They made me money and are a good proposition for someone who wants a strain that has won for fifteen years at all the big shows.

George A. Clark - - **Seymour, Ind.**

variation in color which, when handled properly by an expert breeder, often results in the creation of a new variety."

Origin of Rhode Island Reds.

Q. What varieties of poultry were crossed to produce the S. C. Rhode Island Reds?
Princeton, N. J. G. R.

A. The Rhode Island Reds developed on the farms of Rhode Island. Their ancestry is decidedly mixed and carries the blood of many varieties. The foundation stock was undoubtedly Asiatic combined with both Red Malay and Brown Leghorn, with the admixture of other breeds. Many farms in Rhode Island were, and some still are, owned by sea captains or near relatives of seafaring men. Many fowl were brought in from all parts of the world. Red cocks were the favorites and for many years the farm flocks of Rhode Island were bred to Red males very largely. Naturally Red and Partridge, or similar black on red color, predominated in the farm flocks. That the Red Malay cock of nearly three-quarters of a century ago was a splendid bird of sound red surface color is readily proved. There is still on exhibition in the East India Marine Hall of the Peabody Academy of Science, Salem, Mass., a well preserved specimen of Red Malay cock which was brought from Malay in 1846 by a Captain Wheatland. This specimen shows a well developed pea comb instead of the knotty knob comb which we usually associate with the Malay fowl. The Reds undoubtedly were developed very largely on the farms of Little Compton, Rhode Island, and Westport, Mass. The common Red fowls on these farms had rose combs, single combs and pea combs, with some variations from these types. Both fanciers and commercial egg farmers became interested in these Red fowls, the fanciers created an ideal and bred to it, with the result that we have in both the S. C. and R. C. Reds an American Class fowl of exceptional merit which is as truly American as any biped on this continent and which possesses the characteristics of a thoroughbred. The Rhode Island Red, before the fanciers became interested in the breed, was a good deal like Topsy of Uncle Tom's Cabin—it wasn't born or originated, it "just grew." Among the breeds and varieties known to have contributed to the makeup of the Rhode Island Reds are the Cochin-Chinas or Shanghais, the Chittagongs—both the Gray and the Red, the former having both single and pea combs and the latter showing a good percentage of rose combs—the Red Malay—a large game fowl, sometimes knob combed and sometimes pea combed and undoubtedly showing variations—the Brown Leghorns, and the mixed farm flock. The manner of early development was sixty or more years of outbreeding of farm flocks, kept for egg production, to selected all-red or predominating red cocks. The utility poultry farmers of those early days had faith in the virtues of a red male bird and we owe the R. I. Reds to the fact that they believed that a red male possessed unusual vigor and productivity, and consistently and constantly bred in accordance with that faith. As the "cullud gentleman" at the poultry show said: "W'y, boss, a good chicken's jes' nacherally gotter be red."

When a Pullet Becomes a Hen.

Q. Will you inform me as to what age a cockerel becomes a cock and a pullet a hen? I am desirous of getting some stock and would like to know, as soon as possible, just what I would be getting in ordering cocks or cockerels, or hens or pullets.

Sacramento, Calif. J. L. N.
A. A cockerel is a male fowl less than one year old; when one year old or older he is a cock. Strictly speaking a pullet is a female fowl less than one year old and becomes a hen when twelve months old. In common usage, however, a pullet is spoken of as such until she completes her first year of laying, when she is called a yearling hen. Buying pullets at this season you should get fowls under one year old.

Disappointed in Egg Yield.

Q. I have 50 pullets, March hatched, supposed to come from 960-egg hens; 15 end of April hatched, 15 May hatched, and 10 June hatched. All Leghorns except the 15 May hatched which are R. I. Reds. One of these latter started to lay on October 1st and laid 22 eggs without a stop and then went broody. Four other Reds are laying now. I should have more laying, but some quit and I cannot see the reason.

I feed in the morning wet mash made with milk, shorts, bran, cabbage, potatoes, beef and fish scraps. Use a condition powder in the mash. It takes them until noon to clean it up. I feed it about 9 a. m., as there is always some grain in the litter left from the day before. At noon feed four pounds of heavy oats in the litter and about 4 p. m.

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Order from this advertisement. Send check, money or express order, we ship at once, f. o. b. Quincy, Ill. For shipment by parcel post include postage for 17 lbs. weight. If you are not entirely **30 DAYS' TRIAL** SATISFIED after we will refund all your money, including all charges you have paid. We are responsible. In business in Chicago 46 years. Ask your banker. You also need our splendid "Liberty Hatcher," 70 chick capacity, oil heated, self regulating. Weighs 14 lbs. \$4.50 f.o.b. Quincy, Ill. For larger incubators write for special catalog. Order today. **B. F. Gump Co., 445 S. Clinton St., Chicago, Ill.**

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in three winter months by feeding sprouted oats than in any twelve months before, is what one of our customers writes.

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- 5 pans 11x15 in., \$3.00
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- 5 " 11x33 in., 5.50
- 8 " 11x33 in., 7.50

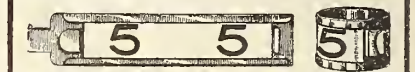
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Special Sale of Cockerels and Pullets
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Write me your needs

D. L. WARNER LITTLE YORK, ILL.

feed good wheat screenings, all they will eat. I gather from 6 to 9 eggs daily. (Written Oct. 27.) I think they should do better. They get all the milk they want to drink. Every other day some pullet is starting to lay and the number of eggs does not seem to increase.

Could you make up a balanced ration with the following? I have no corn and it costs \$3.50 per 100 lbs. I believe that hens can lay well without corn, but I see that all the rations have a big percentage of corn. I have on hand the following feeds at prices stated:

Oats	\$0.52	for 39 pounds
Barley .....	.65	for 50 pounds
Wheat	1.50	for 100 pounds
Shorts	1.70	for 100 pounds
Bran	1.60	for 100 pounds
Linseed meal	3.00	for 100 pounds
Fish and meat scraps ..	6.95	for 100 pounds

The fowls have all the milk they can drink and are always supplied with grit, oyster shells, charcoal and water.

I raised this summer 115 chickens with the income of 18 hens; scrubs but good layers. All my chickens came up fine. I lost only four small ones out of 119. We ate all the roosters and have 40 pullets left. I invested \$60 in 10 pure bred Leghorns, but they do not seem to be any better than my scrubs—a cross of common Barred Rocks with S. C. Leghorns. In May and June I had a better average than most of the contests.

Before last year I did not pay much attention to breeds, when the cross-breeds made me think that the success came from my White Leghorn cockerel. I became interested, got some poultry papers and figured out the results of all the contests and came to the conclusion that S. C. White Leghorns lay more eggs than any other variety. This is all the more true when hens are kept like the farmer keeps them, without care in winter. In summer the heavy breeds pass a big part of the time sitting. I kept a record of my neighbor's flock, 35 scrubs; they averaged 51 eggs in 12 months. My scrubs average 147 eggs in 12 months. I believe I had better kept them this year for they lay better than my pure bred pullets.

There is no one around here taking any interest in poultry. At the county fair this year I hoped to see a fine display of poultry but there were only two pens, one of English White Leghorns and one of Rhode Island Reds. I stood around half an hour to see how many people would look at them. Vegetables were exhibited on one side and the chicken coops on the other. Not a single person showed interest in the chickens. I bought eggs as high as \$1.50 each and I offered cockerels for \$2 each and was offered 50 cents. These are some North Dakota items. I hope it is not so all over the state.

Oiga, N. Dak. C. M.
A. It is not fair to judge those pure bred pullets on an October try-out. October is a poor month for egg production and particularly so this year.

The information you give indicates that you are feeding your pullets rather heavily for birds that are not established in laying. Pullets will stand forcing rations after they have started egg production, but overfeeding before laying begins may result in the production of internal fat and either retard laying or prevent a good yield. You have been feeding rather too heavily on a wet mash, rich in animal food and containing a large percentage of cooked vegetables. We would not feed more wet mash than they will clean up in half an hour.

We believe you will find your pure bred stock wholly satisfactory if you will give them a fair opportunity to make good; in your desire to succeed with them you have been rather overdoing a good thing in matter of rationing. Give the birds a chance and they will certainly better the record of your scrub flock. Those R. I. Reds started well.

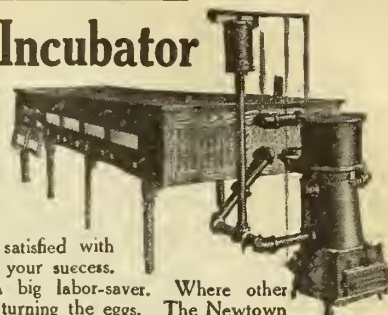
While you can undoubtedly get a good egg yield without corn, we believe that you will more easily arrive at satisfactory results by using some corn in the ration. The price you name is less than we have had to pay since the war began.

Try cutting down the mash to what your flock will eagerly clean up within half an hour after feeding. Give morning and evening feeds of scratch grain in litter, allowing at the rate of approximately two quarts of scratch grain per fifty fowls at each feeding. Do not be governed wholly by measure. Watch your fowls and note their appetites. Keep them well fed but neither overfed nor underfed. They should always be a little keen, but should go to roost with full crops. Mix your scratch grain equal parts of available hard grains and vary the quantity of each from time to time according to the appetites of your flock, giving them the most of whichever grain they exhibit a preference for.

The lack of interest in poultry you report in your section is unusual. We find that very generally thruout the states interest in

NEWTOWN Giant Incubator

Hatches the Most Chicks—
The Best Chicks—
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You cannot ask or get more—should not be satisfied with less. Newtown efficiency and economy insure your success. The Newtown Mechanical Eggs-Turner is a big labor-saver. Where other incubators are used, much time must be spent turning the eggs. The Newtown Mechanical Eggs-Turner has changed this. Take ten seconds to turn the crank and all eggs will be turned better than you can turn them by hand. No eggs are cracked or broken. No "bunching" on trays. If you demand highest efficiency plus economy and certainty, write for complete Newtown catalog "G" today. Please state the size incubator in which you are interested. Remember, it is to your advantage to place your order early.

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is the brooder for the chick grower who demands that his chicks shall make rapid, vigorous growth, with least mortality and at lowest cost. It will positively give you the most satisfactory results, as it has thousands of others.



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The Close-To-Nature vapor bath machines produce the succulent sprouts, the vegetable milk, and the grape sugar that bring the eggs. Cut down the feed bill and run up the egg yield. From one bushel of grain make two to four bushels of the best of egg-producing green feed. Germinate grain in 20 to 30 hours and force growths of an inch or more daily.

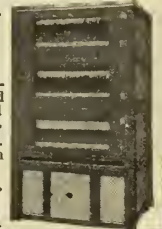
We are the originators of the grain sprouter and its largest manufacturers and make three kinds and many sizes from 1/2 bu. to 8 bu.—a few hens to 1,000.

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Mittendorff Strain. Our strain of Single Comb Reds contains the blood of the best strains of Reds in America, and have size, shape and color, combined with heavy laying qualities. WINNERS at Chicago, Peoria and Quincy. Stock for sale at all times. Satisfaction guaranteed or money refunded.
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Standardbred poultry keeping is good and steadily increasing. You could undoubtedly dispose of your surplus pure breeds, those of breeding quality, by advertising them. Your local market evidently needs a good deal of educational development.

Breeding Young Stock.

Q. I have a cockerel and four pullets hatched from eggs from a pen of eight hens and a cock. Can I safely breed this cockerel to the pullets as foundation stock for both show and utility purposes? They are from a good prize winning strain and are good type birds. O. L. F.

Wakarusa, Ind.
A. As a rule we prefer not to breed a cockerel to pullets except in case of necessity. If the fowls are well matured and the mating well balanced, the results may be good. Provided all the fowls are healthy and vigorous and it is possible to select them so that they are well mated for quality results, it would probably be better to mate the cockerel with six of the hens from original pen and to mate the cock bird with his four pullets and the two remaining hens. If there is a poultry judge near you, it would be wise to have him look over your fowls and mate them up for you.

Sulphur for Chicken-Pox.

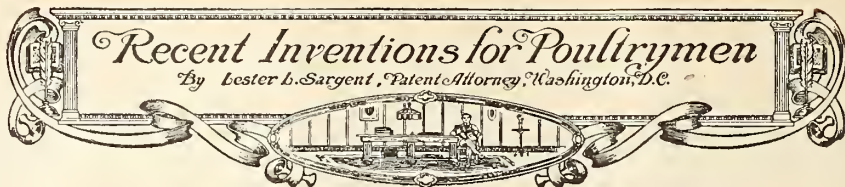
Q. Kindly tell me what to do in case of chicken-pox. Have heard that sulphur fed in the mash will cure this disease. A bird sent to a fair broke out with it within a week after his return. I killed him promptly altho he was a valuable bird. I now notice a few small scabs coming on combs of some of my other fowls. Would like to know how to prevent spread of the disease.

Wilson, Va. L. R. W.
A. Use carbolized petrolatum on the pox sores. In the mash use a heaping tablespoonful of flowers of sulphur to the quart of mash mixture. Continue until the pox sores disappear. Usually they will begin to dry up promptly. Clean up the poultry house, burn all old litter and nesting material. Dampness and damp weather favor the spread of this disease. If they are not disposed to eat the mash, give them no other food until they clean it up.

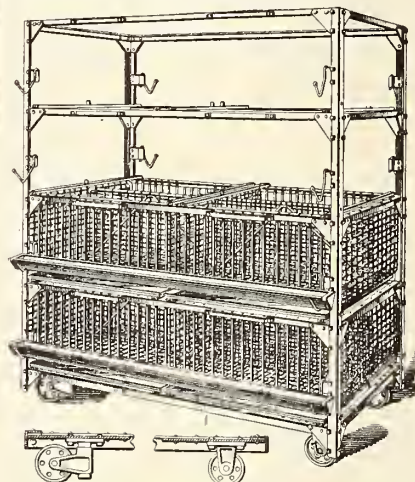
To Keep Rooster from Crowing.

A few days ago I noticed an inquiry in a daily paper by a backlotter how to stop the cock's crow in the small hours of the morning. I know of two safe and simple methods. The first I stumbled onto the second day after my removal to the suburbs. A neighbor had unloaded on me a dozen mongrels of uncertain ages almost before my goods were unpacked. I fixed temporary quarters for them under the back porch, with a roost close to the joists. To my astonishment neither of the two roosters disturbed my slumbers next morning, while both crowed lustily after being at large but a moment. I noticed that to crow the cock must stretch, which he could not do in the cramped quarters under the porch. So I hit upon an idea. When I had them settled in the barn, I nailed a slat over the roost just low enough to keep the rooster from stretching as he would try to crow. This plan is limited, of course, to a small flock, and furthermore to the night time, as fowl leave the roost at daylight. The second and most reliable method to keep your rooster from crowing in the morning is to decapitate him in the evening.

Illinois. E. L.

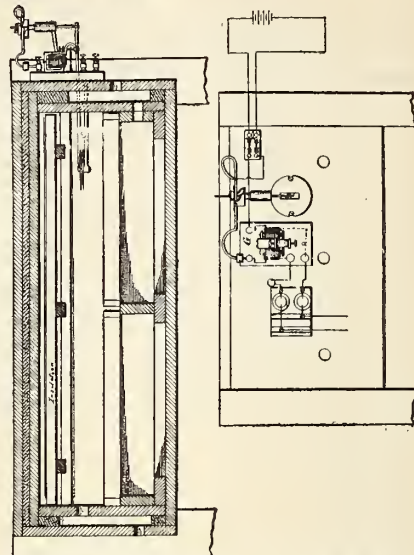


AN IMPROVED poultry coop which is particularly adapted for use when chickens are being fattened preparatory to being killed for the market, the invention of the late George Collis, has been patented to Theo. Collis Company, of Clinton, Ia. It is a traveling metallic coop, with a series of cages mounted one above the other and supported on cross pieces attached to the corner posts. Feeding troughs extend lengthwise of each of the cages, supported by hooks attached to the corner posts. The sides of the cages are of woven wire, with gates that swing upward to open. Droppings catching pans are slidably supported on supporting strips arranged adjacent the ends of each cage. The arrangement makes the entire structure sanitary and practically indestructible, besides which it can easily be wheeled out. Patent No. 1,276,723.



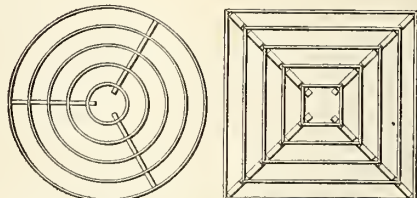
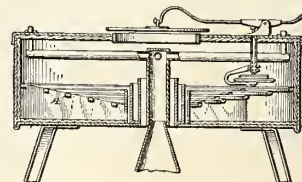
Fattening Coop, patented by Theo. Collis Company, Clinton, Ia. Patent No. 1,276,723.

An electric incubator, invented by Frank N. Blagen, of Hoquiam, Wash., has an improved arrangement of parts whereby inconvenient and frequent removal of the mercury or cleaning is not required. A balanced lever connected with a second lever which has one of its ends positioned to electrically connect with a cup of mercury. A wire connects the opposite end of the balanced lever with the battery. A wire extends from the battery to a relay, and the relay is connected with the service mains and the resistance wire which is arranged in U-shaped loops over the incubator chamber so as to provide an efficient even heat. As the low voltage spark is in the mercury cup, the mercury does not have to be removed or cleaned off at frequent intervals as with some electric incubators. Patent No. 1,276,317.

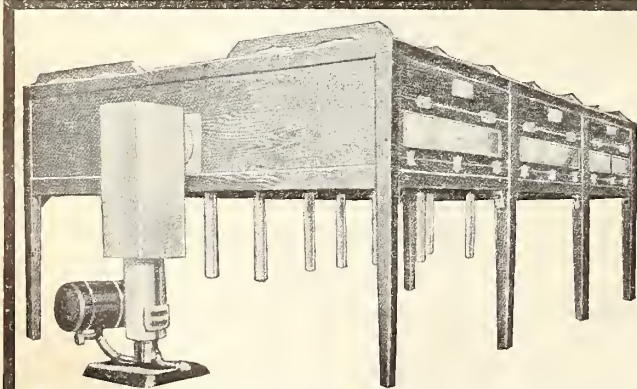


Electric Incubator, invented by Frank N. Blagen, Hoquiam, Wash. Patent No. 1,276,317.

An incubator of the center-heated type has been patented to Henry M. Sheer, of Quincy, Ill., the novel feature of which is a tray with spaced strips arranged in successive tiers. The object is to overcome the inclination of the eggs on the sloping tray to roll toward the center, which at hatching time



Incubator, patented by Henry M. Sheer, Quincy, Ill. Patent No. 1,273,679.



The SCHWALGE Sectional INCUBATOR

The incubator of common sense, not of empty phrases. The one and only incubator that stands absolutely in a class by itself, owing to its unique and exclusive features. The Schwalge will fill your present and future needs, as you may start with a 300 or 600-egg machine, and enlarge to a mammoth machine as your business increases. Additional sections easily added in two minutes.

Two types to start with—300-egg size and 600-egg size. All equipped with blue flame vapor oil heater. Clean, reliable, no odor. Each egg chamber containing 150 eggs can be run as a separate unit. The Schwalge is used and endorsed by hundreds of the most successful poultry men.

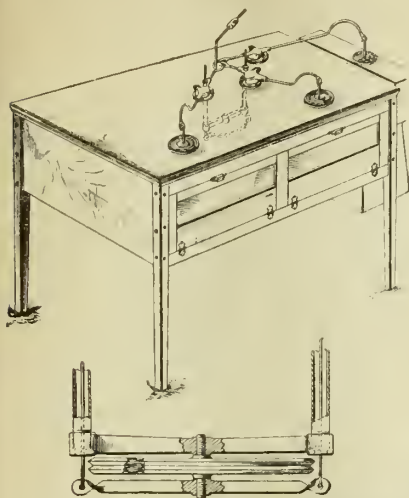
To appreciate the true value of the Schwalge Sectional Incubator you should send for illustrated catalog, which is free for the asking.

Illustration shows the individual egg chambers of 150-egg capacity each, which can be run as separate units. With this machine you can hatch Chicks, Ducks and Geese, all at the same time, each variety having its own egg chamber.

The Schwalge-Smith Company
Elm Street, Elmhurst, Ill.

makes it difficult for the chicks near the center to get out of the eggs, owing to the pressure of eggs farther up on the tray. Patent No. 1,273,679.

A new incubator regulator, devised by Andrew J. Kile, of Harrisonburg, Va., has a crosshead or bar connected to the thermostat, and to each end of the crosshead are

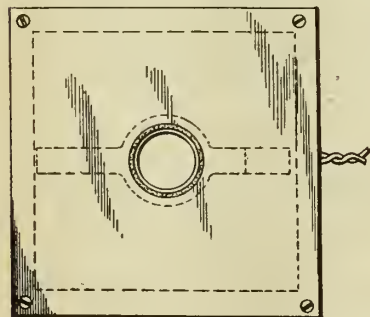
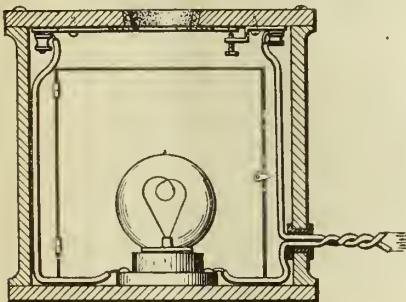


Incubator Regulator, patented by Andrew J. Kile, Harrisonburg, Virginia. Patent No. 1,276,543.

attached regulating levers connected to dampers for each of two egg chambers. A counterweight carried by one of the levers provides means for balancing the mechanism. Patent No. 1,276,543.

A removable egg tray for incubators, with rotatable rollers for turning the eggs, has been devised by Samuel E. Harpham, of Heartwell, Neb. The various rollers are connected with each other by a cable looped around each roller, the end rollers being provided with cranks by which they may be rotated, thus turning the eggs on the tray. Patent No. 1,276,907.

An egg-tester, devised by Charles C. McCormick, of Aurora, Mo., the contact of the egg with a resilient metal strip extending across the top of the tester and encircling the egg opening, moves the strip down so as



Egg Tester, invented by Charles C. McCormick, Aurora, Mo. Patent No. 1,266,695.

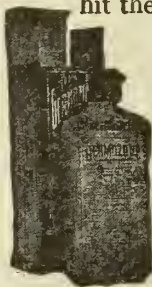
to cause its end to contact with an adjustable contact member to complete an electric circuit and light an incandescent bulb in the circuit whenever an egg is placed on the device. Patent No. 1,266,695.

A chicken beheader, invented by Andrew Carlson, of Mullen, Neb., comprises a fixed bottom blade attached to a suitable frame to be bolted to a post where the device is

to be used, and co-operating with the fixed blade is a swinging or pivoted blade, with a downwardly curved cutting edge, which swings past the lower fixed blade scissors-fashion. The swinging blade is provided with a wooden handle. The device is a convenient substitute for the ax where it is not necessary that the head be left on the poultry. Patent No. 1,271,016.

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Poultry diseases, even colds and roup, almost always start with bowel trouble. Bowel trouble starts mostly from musty or spoiled food. Grain, whole or ground, if it becomes damp and lays around for a week or two is apt to become musty and **musty feed is poison for chickens.**

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A chicken with bowels in healthy working order resists colds, roup, and other similar troubles. One with bowels bad is easy prey for all kinds of trouble. Even lice bother these more.

Germozone kills or counteracts the musty poison in food. Here it is more than a medicine and it is why thousands find it indispensable as a "two or three times a week, given in the drinking water, preventive." But, better still, if one will give pure water as drink through each day and water containing Germozone as a last drink each night it is a little more trouble, but the ideal preventive treatment.

And, as a remedy for colds, roup, canker, sore head, swelled head, chicken pox, sores, swellings, loss of feathers, etc., Germozone is unexcelled.

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Associations and Shows

Secretaries are Requested to Send in News Items of Interest About Their Shows for This Department

SHOW DATES

This list has been compiled from information received from secretaries or judges. If the dates of any poultry show in which you are interested do not appear hereunder, kindly have the secretary mail the necessary information to us and same will be published in our next issue.

ARKANSAS.

Dec. 16-20, 1918. Carroll County Poultry & Pet Stock Assn., Eureka Springs. A. P. A. Show. J. J. Buehl, Green Forest, sec.

CALIFORNIA.

Dec. 9-14, 1918. Los Angeles Poultry Assn., Los Angeles. W. H. Hocking, sec.; O. L. McCord, Harlo J. Fiske, W. S. Russell and W. M. Coats, judges.

Dec. 31-Jan. 4. San Bernardino Poultry Show, San Bernardino. California State Show. A. P. A. Show. Wm. Goucher, R. No. 2, sec.

CANADA.

Dec. 30-Jan. 1. Elgin Poultry and Pet Stock Assn., St. Thomas, Ont., Canada. A. P. A. Show. H. A. Colledge, sec.; John Roberts and W. W. Cadman, judges.

IDAHO.

Jan. 6-10, 1919. Idaho State Poultry & Pet Stock Assn., Boise City. A. P. A. Show. Belle Silversmith, sec.; W. M. Coats, judge.

ILLINOIS.

Dec. 3-8, 1918. Coliseum Poultry Show, Chicago. Theo. Hewes, Indianapolis, Ind., sec.

Dec. 9-11, 1918. Altamont Poultry Assn., Altamont. A. P. A. Show. Paul A. Munzel, sec. D. T. Heimlich, judge.

Dec. 9-14, 1918. La Salle County Poultry Assn., Streator. A. P. A. Show. F. W. Breimer, sec.; J. A. Leland, judge.

Dec. 9-14, 1918. Milledgeville Poultry Assn., Milledgeville. A. P. A. Show. C. A. Straka, sec.

Dec. 9-14, 1918. Williamson County Poultry & Pet Stock Assn., Johnston City. G. W. Felts, sec.

Dec. 10-15, 1918. Plainfield, Ill., Poultry Show, Plainfield. Score Card Show. J. S. Pennington, sec. E. Tarbox and Glenn Palmer, judges.

Dec. 11-15, 1918. Jo Daviess County Poultry & Pet Stock Assn., Galena. A. P. A. Show. George Steyer, sec.; T. J. Roundtree, judge.

Dec. 27-Jan. 2. Chicago Poultry Breeders' Assn., Chicago. A. P. A. Show. D. E. Hale, 349 W. 65th St., sec.; Tucker, Leland, Dagle, Palmer, Smith, Struble, Tormohlen, judges.

Dec. 30-Jan. 4. Ogle County Show, Chana. Isaac Canfield, sec.

Jan. 3-8, 1919. Illinois Poultry Breeders' Assn., Carbondale. A. P. A. Show. State Show. A. D. Smith, Quincy, sec.; McCord, Hale, Johnston, Heimlich, Leland, Heyl, judges.

Jan. 6-11, 1919—Galva—Henry Co. Poultry Assn., Galva. A. P. A. Show. Ed Iverson, 319 S. E. 6th Ave., sec. E. M. Quay, judge.

Jan. 6-11, 1919. Northern Ill. Poultry Assn., Belvidere. A. P. A. Show. Wm. W. Shaw, sec.; Chas. V. Keeler, judge.

Jan. 7-10, 1919. Buckley Poultry Assn.,

Buckley. A. P. A. Show. W. H. Blanken, sec.; J. C. Johnston, judge.
Jan. 10-14, 1919. Saline County Poultry and Pet Stock Assn., Harrisburg. E. L. Hess, sec.; Junius Klein, judge.
Jan. 20-25, 1919. Decatur Poultry Show. John Stiarwalt, sec.; Geo. A. Heyl and Chas. McClave, judges.

INDIANA.

Jan. 7-10, 1919. Morristown, Ind., Show. Frank Thayer, sec.

Jan. 8-14, 1919. Whitley County Poultry and Pet Stock Assn., Columbia City. Alva Noble, sec.

Jan. 14-20, 1919. South Bend Poultry and Pet Stock Assn., A. P. A. Show. Paul A. Hiermann, sec.-treas.; Gibson and Wise, judges.

Jan. 20-25, 1919. Wakarusa Poultry Assn., A. P. A. Show. Vern Hahn, sec.; H. J. Tyrrell, judge.

Jan. 27-Feb. 1, 1919. LaFayette Poultry Club, LaFayette. A. P. A. Show. S. J. Shaw, sec.; Frank W. Traviss, judge.

IOWA.

Dec. 9-13, 1918. Fremont County Poultry Assn., Sidney. A. P. A. Show. R. K. Stevens, sec.

Dec. 9-13, 1918. Gladbrook Poultry Assn., Gladbrook. A. P. A. Show. C. L. Koester, sec.; Harry Atkins, judge.

Dec. 12-16, 1918. Ottumwa Poultry Assn., Ottumwa. Vernon Reinhard, sec.

Dec. 16-19, 1918. Sixth District Poultry Assn., Oskaloosa. A. P. A. Show. Geo. Bamford, sec.; Jos. Dagle, judge.

Dec. 16-20, 1918. Southwestern Iowa Poultry Assn., Clarinda. A. P. A. Show. Mrs. James McNeerney, Col. Ia., sec.; F. H. Shel-labarger, judge.

Dec. 17-20, 1918. Sac County Poultry Assn., Odebolt. Harry H. Hanson, sec.; Glen Richards, judge.

Dec. 18-21, 1918. Boyer Valley Poultry & Pet Stock Assn., Woodbine. A. P. A. Show. G. H. Humphrey, sec.

Dec. 18-21, 1918. North Iowa Poultry Assn., Charles City. A. P. A. Show. E. J. Blumenshine, sec.; G. D. Holden, judge.

Dec. 29-Jan. 4. Waterloo Poultry Assn., Waterloo. J. S. Leeper, sec.; Jas. A. Tucker, Royal Oak, Mich., judge.

Jan. 1-4, 1919. Muscatine County Poultry Assn., Muscatine. A. P. A. Show. J. C. Collins, sec.; Henry C. Dipple, judge.

Jan. 1-5, 1919. Mt. Vernon Poultry Assn., A. P. A. Show. H. C. Gilliland, sec.; Harry Atkins, judge.

Jan. 3-8, 1919. Dubuque Poultry Assn., Dubuque. A. P. A. Show. John Ball, 280 W. Locust St., sec.; H. A. Bittenbender, judge.



DON'T FORGET

PITTSBURGH

EIGHTH ANNUAL SHOW

January 13 to 18, 1919

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NATIONAL
All Orpington (except Buffs).
United Ancona Club.
Blue Andalusian Club
STATE
Rhode Island Red Club.
American Plymouth Rock Club.

Jan. 5-8, 1919. Lowden Poultry Assn. O. C. Pancratz, sec.; Glen F. Richards, judge.
 Jan. 6-11, 1919. Burlington Poultry Assn., Burlington. A. P. A. Show. Walter Reppert, 1009 S. Leehrick St., sec.; Tucker, Shellabarger, Sheetz, Atkins, judges.
 Jan. 7-9, 1919. Kossuth County Poultry Assn., Bancroft. C. H. Ostwinkle, sec.
 Jan. 7-10, 1919. Calhoun County Poultry Assn., Lake City. F. R. Green, sec.; Glen F. Richards, judge.
 Jan. 7-10, 1919. Hampton Poultry Assn. A. P. A. Show. W. F. Sampson, sec.; Lapp, judge.
 Jan. 13-18, 1919. Inter-State Poultry Assn., Sioux City. A. P. A. Show. E. L. Vennard, 2418 Cypress St., sec.; Harry Atkins, judge.
 Jan. 14-17, 1919. Marshalltown Poultry Assn. Geo. Moehrl, sec.; Glen Richards, judge.
 Jan. 20-24, 1919. Maquoketa Fanciers Assn. A. P. A. Show. W. R. Knight, sec.; Harry W. Atkins, judge.
 Jan. 21-24, 1919. Cedar Valley Poultry Assn., Osage. A. P. A. Show. C. R. Hopkins, sec.; H. A. Bittenbender and W. H. Lapp, judges.
 Jan. 23-27, 1919. Cedar Rapids Poultry and Rabbit Show. Harry H. Whitfield, sec.

KANSAS.

Dec. 9-14, 1918. Lyon County Poultry Assn., Emporia. A. P. A. Show. F. J. Horton, sec.
 Dec. 10-13, 1918. Leavenworth Poultry Assn., Leavenworth. A. P. A. Show. Chas. M. Swan, sec.; A. T. Modlin and R. F. Palmer, judges.
 Dec. 30-Jan. 4. Kansas State Poultry Federation Show, Holton. Heber D. Wilson, sec.
 Jan. 6-11, 1919. Kansas State Poultry Breeders' Assn., Topeka. A. P. A. Show. Thomas Owne, Route 7, sec.; Branch and Hobbs, judges.

MASSACHUSETTS.

Dec. 11-12, 1918. Northampton Poultry Assn., Northampton. A. P. A. Show. S. E. Hoxie, sec., 44 North Elm St., Northampton, Mass.

MICHIGAN.

Dec. 12-14, 1918. Marlette Poultry Club. J. A. McCallum, sec.
 Dec. 31-Jan. 2. Zealand Poultry Assn., Zealand. John A. Hartgerink, sec., box D.
 Jan. 15-21, 1919. Michigan Poultry Breeders' Assn., Detroit. A. P. A. Show. F. M. Crowe, Owosso, sec.; Cosh, Tormohlen and Hale, judges.

MINNESOTA.

Jan. 13-15, 1919. Chisago Co. Poultry Assn., Rush City. A. P. A. Show. Carl H. Sommer, sec.; A. C. Smith, Mrs. John Kruse, judges.

Jan. 13-16, 1919. Meeker County Poultry Assn., Litchfield. E. T. Sletten, sec.
 Jan. 17-20, 1919. Duluth Poultry Assn., Duluth. A. P. A. Show. Douglas C. Moore, Nemadji, Minn., sec.; Geo. D. Holden, judge.

MISSOURI.

Dec. 16-20, 1918. Mineral Belt Poultry and Pet Stock Assn., Joplin. A. P. A. Show. Mrs. W. B. Roberts, sec., Carterville; E. C. Branch, judge.

Dec. 16-21, 1918. Johnson Co. Poultry Assn., Holden. C. H. Funk, sec.; Russell F. Palmer, judge.

Jan. 1-4, 1919. Grand River Valley Poultry Assn., Trenton. A. P. A. Show. L. E. Ford, sec.; E. C. Branch, judge.

Jan. 13-18, 1919. Kansas City Poultry Show, Kansas City. A. P. A. Show. E. L. Noyes, sec.; Branch, McKlaskey and Southard, judges.

NEBRASKA.

Dec. 9-13, 1918. Beatrice Poultry Assn. David O. Kassing, sec.; F. H. Shellabarger, judge.

Dec. 17-20, 1918. Fillmore County Poultry Assn., Fairmont. A. P. A. Show. L. Brown, sec.; Guy E. Schreff, judge.

NEW YORK.

Jan. 24-28, 1919. Madison Square Garden Show, New York City. Chas. D. Cleveland, sec.

NORTH DAKOTA.

Jan. 22-24, 1919. Missouri Slope Poultry Assn., Bismarck. A. P. A. Show. Harry R. Clough, sec.; G. B. Holden, judge.

OHIO.

Dec. 10-14, 1918. Ashland Poultry Breeders Club, Ashland. A. P. A. Show. W. H. Yunker, sec.; F. A. Poertner, judge.

Dec. 31-Jan. 5. Sandusky Poultry Assn., Sandusky. A. P. A. Show. W. W. Taylor, sec.; D. D. Whitaker, judge.

Jan. 7-13, 1919. Dayton Fancy Feather Club, Dayton. A. P. A. Show. C. D. Forney, sec.; Zimmerer and Young, judges.

Jan. 13-18, 1919. Newark Fanciers Assn. A. P. A. Show. H. M. Close, 179 9th St., sec.; D. D. Whitaker, judge.

OKLAHOMA.

Dec. 16-21, 1918. Oklahoma State Poultry Federation Show, Nowata. A. P. A. Show. Fred Atherton, Waukómis, sec.; Keeler, Fisk, Stones, judges.

Thirtieth Madison Square Garden Show



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SILVER ANNIVERSARY

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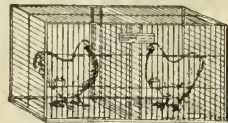
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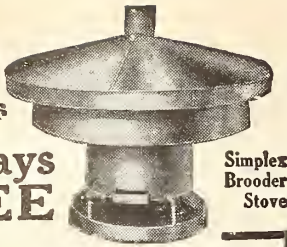
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Dec. 30-Jan. 4. Oklahoma Co. Poultry Breeders Assn., Oklahoma City. A. P. A. Show. John W. Nicely, sec.; D. T. Heimlich, judge.

PENNSYLVANIA.

Dec. 9-13, 1918. Tyrone Poultry Fanciers Assn., Tyrone, Pa. K. L. McClain, sec.
Jan. 7-11, 1919. Johnstown Fanciers' Assn., Johnstown. G. Ray Johnston, sec.; J. E. Weaver and P. A. Schied, judges.
Jan. 13-18, 1919. Poultry Exhibition of Pittsburgh, Motor Square Garden. A. P. A. Show. J. Leonard Pfeuffer, sec.

SOUTH DAKOTA.

Jan. 3-7, 1919. Northwest Poultry Assn., Watertown. A. P. A. Show. G. Paul Pitt, sec.; Geo. D. Holden, judge.

TEXAS.

Dec. 9-14, 1918. Ellis County Poultry Assn., Waxahachie. Mrs. R. H. Davis, sec.
Dec. 26-30, 1918. Great Texas State Poultry Show, Dallas. Walter Burton, Arlington, Texas, sec.
Jan. 7-11, 1919. South Plains Poultry & Pet Stock Assn., Plainview. A. P. A. Show. E. B. Miller, sec.; D. T. Heimlich, judge.

UTAH.

Jan. 13-19, 1919. Weber County Poultry Assn., Ogden. A. P. A. Show. W. W. Shaw, Box 364, sec.; Jas. A. Tucker, judge.

VERMONT.

Jan. 3-9, 1919. Enosburg Poultry Assn., Enosburg Falls. J. G. Gaines, sec.

WASHINGTON.

Dec. 31-Jan. 4. Tacoma Poultry Assn., Tacoma. A. P. A. Show. Harry H. Collier, sec.; W. M. Coats, judge.
Jan. 8-11, 1919. North Central Washington Poultry Show, Wenatchee. A. P. A. Show. V. L. Garner, sec.; Harry H. Collier, judge.

WEST VIRGINIA.

Jan. 20-26, 1919. Huntington Poultry and Pet Stock Assn., Huntington. Geo. Parent, sec.; Walter C. Young, judge.

WISCONSIN.

Dec. 6-8, 1918. Ozaukee County Poultry Assn., Cedarburg. Fred W. Hilgren, sec.; Jas. E. Greenwald, judge.
Dec. 10-13, 1918. South Central Wisconsin Poultry Assn., Albany. Cal Broughton, sec.; W. E. Stanfield, judge.
Dec. 11-15, 1918. Central Wisconsin Poultry Assn., Wausau. A. P. A. Show. Chas. W. Porath, Box 83, sec.; Jas. A. Tucker, judge.
Dec. 12-15, 1918. Manitowoc Feathered Stock Assn., Manitowoc. A. P. A. Show. A. P. Schenian, sec.; Geo. A. Wells, judge.
Jan. 3-6, 1919. Jefferson County Poultry Assn., Fort Atkinson. Alfred Cory, sec.
Jan. 8-12, 1919. Sheboygan Poultry & Pet Stock Assn., Sheboygan. Jesse Daniels, 1412 Mehrrens Ave., sec.; Swain, of Indiana, judge.

Jan. 6-10, 1919. Wisconsin Poultry Assn., Madison. A. P. A. Show. J. G. Halpin, sec.; Hackett and Greenwood, judges.
Jan. 21-23, 1919. Douglas County Poultry Assn., Superior. A. P. A. Show. John Tyson, 2125 Hammond Ave., sec.; W. H. Laabs, judge.

WYOMING.

Dec. 12-14, 1918. Northern Wyoming Poultry Assn., Sheridan. A. P. A. Show. W. L. Wright, sec.

Features of Pittsburg Show.

A number of new innovations will be tried out at the Pittsburg Show this year which will be held January 13 to 18. There will be no specified number of entries needed in any variety to win a cash prize. There will be a cash prize if only one bird is entered of each variety. There will be no ribbons awarded at this show, instead there will be issued a certificate of award which will designate prize, sex, breed and give the name of the exhibitor. This will mean that the claim of the exhibitor that he won this or

STILES' COLORED Leg Bands

BEST IN QUALITY

Identify birds as far as you can distinguish colors. Made in Red, white, blue, green, black and yellow.

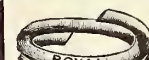
Mention variety when ordering.



SPECIAL BRAND—Single coil. Made of lighter material and have less lap than Economy brand. 25 for 25c; 50-50c; \$2.30; 500-\$3.50, postpaid.



ECONOMY BRAND—Long lap. Heavy Material, 12 for 15c; 25-30c; 50-55c; 100-95c; 250 \$2.30; 500-\$4.50.



ROYAL BRAND—Double coil. Best of all. 12 for 20c; 25-35c; 50-65c; 100-\$1.20. 250-\$2.75; 500-\$5.00, Post-paid.



THE VICTOR BAND Large printed numbers, bright clear colors—Red, white, blue, green, yellow. Made of celluloid and aluminum. Adjustable. 12 for 40c; 25-75c; 50-\$1.40; 100-\$2.50; 200-\$4.25; Victor Sealed Band—12 for 45c; 25-80c; 50-\$1.50; 100-\$2.75. Pliers 75 cents.

ALUMINUM BANDS



THE CAPITAL BAND Has raised figures. Adjustable. strong, smooth edges. 12-15c, 25-25c, 50-40c, 100-65c, 250-\$1.50, 500-\$2.75, 1000-\$5.25.



THE FAVORITE BAND Raised figures, locks with double clinches. Prices, 12 for 15c, 25-25c; 50-40c; 100-75c; 250-\$1.75; 500-\$3.00.



The Commercial Sealed Band—Aluminum, raised figures. Sealed with soft metal rivet. 25 for 35c; 50-65c; 100-\$1.10; 250-\$2.60; 500-\$5.00. Pliers 60c.

Poultry Cuts New designs, a complete line. Catalog Sent Free.
Favorite Poultry Punch, Price 25 cents.

CHAS. L. STILES

Department 6 COLUMBUS, OHIO



THE OLD RELIABLE LAMBERT'S DEATH TO LICE

has been used over 30 years by **Successful Poultrymen**
Because **It Insures Clean Fowls**

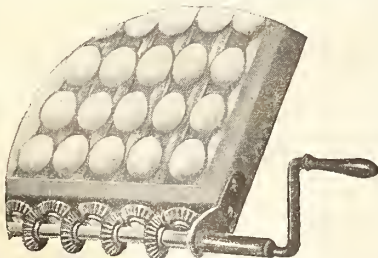
Is just the thing for sitters, as it does not harm eggs or chicks. Keep your hens free from lice and they will thrive and be profitable. 100 oz. \$1.00; 45 oz. 50 cts., 15 oz. 25 cts. Large sample of Powder or Head-lice Ointment 10 cts. "Secrets of Success with Poultry" by D. J. Lambert for 2c stamp.

THE KLEIN-LAMBERT CO., 601 Traders Bldg., Chicago

A TURN OF CRANK TURNS EVERY EGG Without Opening Incubator

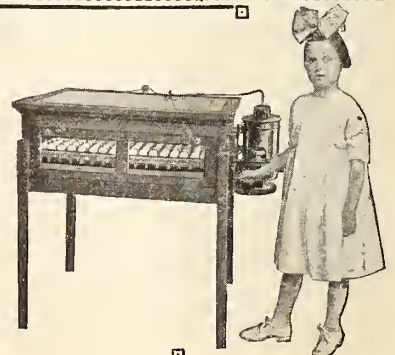
ENDORSED BY ALL LEADING AUTHORITIES

SUPERIOR ALL-COPPER HEATING SYSTEM
Very Best Construction—Perfect Ventilation
Simplest to Operate Write for Catalog



A Turn of Crank Turns Every Egg

Roller Tray Incubator Co., Nutley, New Jersey



that when selling birds must end, as the certificate goes with the bird. While ribbons were easier to handle they did not mean anything to the party winning same other than that he secured so many ribbons, whereas now with a certificate the bird can only be sold once, as the buyer no doubt will want the certificate, much on the same principle as a buyer of a dog gets his pedigree.

A. P. A. ribbons and gold medals—\$50 Liberty bond, best display in show; \$50 Liberty bond, best display S. C. White Orpingtons; \$50 Liberty bond, best display of pigeons.

The United States Government Poultry Exhibit, consisting of model coops, traps and all modern poultry appliances will be shown, in charge of government experts. They will also show record egg-laying hens and tell how to obtain best results. This exhibit will cover about 3,000 square feet floor space.

Up to the present time the following national meets have decided to show with us: All Orpingtons (except Buffs), United Antona Club, Blue Andalusians. State meets, Rhode Island Red Club and American Plymouth Rock Club. In addition there will be several others who have not yet decided.

Harold Ravnley has been selected to judge the pigeons on exhibition.

J. Leonard Pfeuffer, secretary of the Poultry Exhibition of Pittsburgh, Commonwealth building, will be pleased to send any intending exhibitor a premium list, which will be out December 5.

Thirtieth Garden Show—The Peace Show.

For thirty years our exhibition has been "America's Leading Show"—truly a wonderful record and one that should be topped off this season with the greatest exhibition that the world has ever seen. The dates—January 24 to 28, inclusive—are ideal; they come just before the real breeding season and at the very best time for selling, not only fowls, but incubators, breeders and supplies of all kinds, and just at the best period for taking orders for eggs and chicks. The Christmas rush will be over and express facilities will be ample.

Now that peace has warmed the world into full life and activity and has pointed out the bright future ahead of all poultrymen, the exhibit should be a great, whole-souled outpouring of the enthusiasm of the fanciers of the world. The Garden should be crowded to its very doors with quality in every variety.

I have been urged both to raise the entry fee and to cut out all premium money and make the show a ribbon show. These suggestions will not be carried out, because we believe that our exhibition should be open to all and that the small breeder should be placed on the same footing as the big one. The entry fee will remain at the same figure as in former years. Certain changes will be made in the premiums as indicated in the premium list, but the show will continue to give both money and ribbons.

I ask a special favor this year—that you make your entries early. Help me to get your tags back to you at an early date.

Application for premium lists have been coming in for some time. Many of these are from persons who are merely curious, or who want them for souvenirs. It is necessary, therefore, to say that no premium lists will be sent unless good faith is shown by inclosing stamps.

At the service of intending exhibitors, I am, Charles D. Cleveland, Secretary, Eaton-town, N. J.

Detroit (Mich.) Show.

Under the name of the Detroit State Poultry Show, poultry raisers and fanciers will hold a statewide exhibition at the armory January 27 to February 1, inclusive. By general agreement among the poultrymen there will be none of the smaller shows held this year in Pontiac and other adjacent cities.

The Detroit show will cover all the territory possible and in addition to the exhibition the Michigan State Agricultural College will conduct a school in poultry raising, dressing and marketing, open to all persons attending the exhibition. During the week the National Barred Rock Club, one of the largest poultry organizations in the country, will hold its annual meeting in this city.

Officers selected for the show are as follows: President, Joseph Toynton, Pontiac; first vice-president, William F. Degan; second vice-president, B. D. Collins; secretary, Prof. C. H. Burgess, East Lansing.

The Twenty-fifth Annual Illinois State Show will be held in the new armory at Carbondale, Ill., Jan. 7 to 11, and the outlook for a big show was never better. Inquiries are already coming for catalogs. The Illinois State has not for many years been held in the southern part of Illinois, which was one of the big reasons it was awarded to Carbondale. The features will be free door, free official and marked catalogs. Many breeders are under the impression that

WILL
MAKE
HENS
LAY



WILL
MAKE
CHICKS
GROW.

ODORLESS

SOMETHING TO CROW ABOUT

"HEN-E-TA"

Egg Producer

NO OTHER BONE NEEDED | NO OTHER GRIT NEEDED

**No More Bone Cutters Needed
No More Charcoal Needed**

NO MORE BEEF-SCRAPS NEEDED

100 lb. SACK, \$3.00

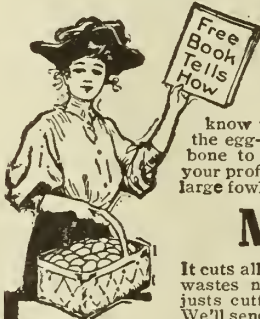
Balanced War Rations **FREE** upon receipt of your order and remittance for trial sack and your feed dealer's name.

HEN-E-TA BONE CO.

NEWARK, N. J., DEPT. 11

CAUTION: Any Bone Cutter claiming to be MANN'S without F. W. MANN CO. cast on its surface, is an imitation. The genuine MANN'S is made only in Millford.

Make Hens Lay



READ THE BOOK THAT TELLS HOW

Tells you how to **make hens lay**. Gives you in a nutshell the whole matter of right feeding. Read it if you want to know the **real value** of fresh, raw bone, which contains four times the egg-making ingredients that grain has. You **must** feed raw, green bone to promote **growth, development and laying**. It doubles your profits in number of eggs, fertility, strong chicks, large fowls. It is easily and quickly prepared with

MANN'S Latest Model Bone Cutter

It cuts all green bone with all adhering meat and pristle; wastes nothing and never **clogs**. Automatically adjusts cutting to your strength. Any one can turn it. We'll send you one on **10 Days' Free Trial. No money down.** If not satisfactory return at our expense. Send for book today.

F. W. MANN CO.

Box 56, Millford, Mass.



We Make

- Runways
- Trap Nests
- Brood Coops
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- Setting Coops
- Portable Henneries
- Fireless Brooders
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- Fattening Crates
- Portable Fences

Trap Nest



Write for Our Free Catalog of these coops, nests and many other articles. You will save money and get the best.

Niemann Bros. Mfg. Co., Box 677 Mt. Olive, Illinois

Buff Wyandotte Breeders ATTENTION!

standing will receive the leader of poultry journals at the expense of the club. This means that all members in good standing will receive the leader of poultry journals at the expense of the club. Join the club that gives you 100 cents for the dollar. Send \$1, with your name and address, to

Andrew C. DeHass, Albany, New York

Place your advertisement in the American Poultry Journal if you want results. It will mean bigger business for you.

Use Common Sense for More Eggs!



It's the Winter Layers That Pay

THERE'S no magic in making your hens lay when the price of eggs is high. It's just a matter of common sense. But it takes time for Nature to form the eggs inside the hen. So if you want a big egg-yield all Winter, now is the time to begin feeding

Common Sense Scratch Feed and Egg Mash

These rations contain proteins, carbohydrates and cellulose in just the right proportions to keep the hen in perfect health—to keep her egg-making organs working naturally. Feeding Common Sense Scratch Feed and Egg Mash is simply following Nature's prescription for the maximum egg-yield.

Common Sense Feeds are guaranteed in writing to please, or your money back. Ask for prices and samples

THE FAMABELLA CO., Inc.

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LICECIL

The Poultry Lice Exterminator
Merely hang a bottle near the roosts. The gas kills the lice and mites—no injury to the birds. Price—delivered—One bottle, 75c.; Three bottles, \$2. Order today. Address nearest office. Circular free.
Box 35 LICECIL MFG CO. Box 35
Germantown, Phila., Penna. Quincy, Illinois

Mention the American Poultry Journal when writing to advertisers.

free catalogs means given free to exhibitors, but they are mistaken; we distribute the official and marked catalogs to all who visit the show. The cash prizes are higher than those of any show in the state, and cash specials for best displays in all varieties will again be given. Our judges are the best in the country and are not only hired to judge the different varieties, but to give all information gladly to all who ask. Catalog will be ready Dec. 1. Write to A. D. Smith, Quincy, Ill., for your copy.

Buff Minorca Club.

The International Buff Minorca Club holds its annual at the Great Fanciers' Show, Boston, Mass., Jan. 14 to 18. The following is a list of special premiums offered by the club and its members at this meet: Dr. B. J. Hovestadt and Cort Hincken, Boston, offer a magnificent silver cup for best display, also a grand trophy shield for second best display. The Walhalla Farm, Oscoda, Mich., offers a grand silver cup for the best three hens and three cockerels. Also a setting of eggs from its best matings for best male and best female. E. J. Campbell, Cedarhurst, N. Y., offers \$5 in gold for the exhibitor coming the longest distance. Charles W. Deeds, Dayton, Ohio, offers \$5 in gold for best shaped Minorca in the show. Walter C. Young, Dayton, Ohio, offers \$5 in gold for best colored Minorca in the show. The International Buff Minorca Club offers handsome silk ribbons for best cock, cockerel, hen, pullet, pen and grand sweepstakes for best Buff Minorca in the show. The above specials are open to club members only. Every breeder of Buff Minorcas is requested to enter a few birds, if possible, at this meet, in order to make this the greatest show of Buff Minorcas ever penned in America. If you are not a member of the club send \$1 to the secretary in order to compete for the above specials. Walter C. Young, secretary, R. R. 16, Dayton, Ohio.

We greatly regret to announce that the officers of the Fair of the Carolinas have decided not to hold a fair this fall. This has made it necessary for the Mecklenburg Poultry Club to change the dates of its show again, as the club had arranged to hold its show with this fair. At a meeting of the club held October 29 it was decided to hold the show January 6 to 9. The annual show of the North Carolina Poultry Association will be held in connection with the Mecklenburg Poultry Club show on above dates, and with the two associations pulling together we are assured of the largest exhibition of poultry and pet stock ever seen in this state. New premium lists and all information necessary will be mailed you at an early date. In the meantime, get ready to show at Charlotte, N. C., January 6 to 9. They'll all be here and one good old-fashioned chicken show time is promised everybody. R. L. Simmons, president; S. W. Asbury, secretary.

The American Buff Wyandotte Club offers to its members four handsome ribbons, one for best shaped male, one for best shaped female, one for best colored male, one for best colored female. Club cups will be offered at the national, sectional and state meets. These specials are offered without strings, all that is necessary is to be a member in good standing. It is very essential to state on your entry blank that you are a member. All breeders not members should join the club and compete for these handsome specials. Send \$1 to Andrew C. De Hass, secretary-treasurer, Albany, N. Y., or to your state secretary.

Kansas City Poultry Show, Kansas City, Mo., January 13 to 18. The show has deposited with the National City Bank of

Kansas City \$750 in Liberty bonds to guarantee the prompt payment of all its premiums. For premium list write E. L. Noyes, secretary, Manhattan building, Kansas City, Mo.

The Assiniboia Poultry Association, Winnipeg, Canada, held its first annual show October 3 to 5, and reports a most successful show in every particular. One of the features that proved most popular was the boys' and girls' classes, also the selling class. C. O. Merredew, the secretary, is to be congratulated upon the most efficient manner in which this show was conducted, and all the officers deserve praise for their untiring efforts toward making the show the success it proved to be.

A. H. Studebaker, South Bend, Ind., secretary of the South Bend Poultry and Pet Stock Association, was stricken with influenza the latter part of October, and after an illness of only ten days died Nov. 4. Mr. Studebaker was a son of the late Henry Studebaker, founder of the great Studebaker wagon works at South Bend, Ind. He was a lover of thoroughbred poultry and took great interest in the local poultry association.

Due to the embargo on all shipments of fancy poultry from Dec. 10 to 31, inclusive, the Jefferson County (Wis.) Poultry Association has changed its dates to Jan. 3 to 6. For full particulars write the secretary, Alfred Cory, Fort Atkinson, Wis.

The Waterloo Poultry Association of Waterloo, Iowa, has changed its dates to Dec. 31 to Jan. 5; James A. Tucker, judge. For further information write the secretary, J. S. Leeper, Waterloo, Iowa.

Meeker County Poultry Association will hold its annual show Jan. 13 to 16, at Litchfield, Minn. Most liberal premiums will be offered. Send for premium list to E. J. Sleeter, Litchfield, Minn.

The Williamson County Poultry and Pet Stock Association has changed its dates to December 4 to 8, at Johnston City, Ill.



1st Cock Madison Square Garden

Black Langshans

I am not expecting to show this season. Will offer all my choice show birds for sale.

Better engage them now. New catalog

M. S. BARKER Thorntown, Ind.

FAIR OAKS BARRED ROCKS

We have the birds and want the breeders to realize it. We never had as good a bunch headed for the show room

—and that means a good deal when you consider that last year we had more winners at the National Barred Rock Club and Illinois Centennial Shows than all breeders in the United States combined.

1000—Head of Superior Young Stock for Sale—1000

bred from the above winners and others like them. They will give ground to no competitors this winter, no matter where they come from.

GREAT BARGAINS IN BREEDERS

300 head fine yearling old stock, including our winners, with 40 cock birds in the list. Now is the time to secure your breeders! They are lower in price now than they will be in the spring, and it is much better to put them into their new quarters in the fall, so that they will become acclimated and satisfied by breeding time. The results are much more satisfactory.

Fair Oaks Farm

P. J. Sexton, Prop.
B. E. Rogers, Gen. Mgr.

Waukegan, Illinois

Poultry House Ventilation; Or, Where Experts Differ.

S. K. Burdin, Toronto, Canada.

HOW is the layman to know whom to follow? One man says, this is the way; another says, no, it is not. Let us study some of the principles involved and how to apply them.

The question of poultry house design, arrangement and ventilation is one of more than ordinary interest to the general public, and especially now when so many are being urged to help in the increased production campaign. It has long been recognized that if this question had been solved beyond the shadow of a doubt, and definite rules and methods of construction and ventilation could be provided for guidance in building our houses, large or small, a great stride would be made toward ultimate success in poultry raising, but unfortunately it has not and this information is yet to be supplied.

It is a common practice for most persons, as soon as they become interested in poultry raising, either from the fancier's or utility standpoint, to subscribe for one or more poultry papers, while some will buy every paper they learn of or see mentioned in the exchanges.

At first the way seems clear to them; the various phases of poultry raising simple, and their course easily discernible. When they finish reading the first few articles on this or that method of housing they know, or think they do, just how to proceed; but soon they observe that the authorities are frequently contradicting each other. Then they begin to realize that their own houses, built as directed in the most childish faith and simplicity, fail to come up to promise. They begin to analyze their own troubles. Have they not read in their favorite paper, by their favorite expert, about this or that style of house and also that no matter what is wrong with a bird, whether it be a case of crop-bound, egg-bound or "hide-bound," if she is placed in one of these sanitariums she will recover promptly and all will be O. K. in a few days. Then conditions change; the weather moderates, the house works better, and everything is again serene.

No sooner does our friend begin to see the rift in the clouds and again get out his slate and pencil and begin to figure up and prepare his "balance sheet" for some few years hence, when his wealth will require a very respectable row of duck eggs preceded by a figure one, three or five, to write down his wealth on the income tax collector's books, when lo! he suddenly comes across something like the following in an equally reliable paper by a renowned expert.

"One would think that after this rigorous winter (1917-18) the advocates of open front poultry houses would be less enthusiastic and flamboyant (some word, that) than they have been in the past. Open front houses are all right in mild climates, but in latitudes where the mercury drops to zero and below, they are out of place."

Then he begins to wonder who is who. He reads again and yet again. No, there can be no mistake about it. These experts are facing each other with swords drawn, each claiming the floor and persisting they

"Golden Rod" Buff Orpingtons

are bred for heavy egg production and exhibition qualities, and their 20 years of winning at the NATIONAL SHOWS and EGG-LAYING CONTEST proves that they are BRED RIGHT. If you have never raised poultry you owe it to yourself, and country, to do so now. If you are just beginning, you naturally want the best; if you are an old breeder, these old linebred trap-nested "GOLDEN RODS" will improve your flock. Remember, we are the oldest, biggest and BEST breeders in the U. S.

At the Illinois State Fair, 1918, we won 1st old pen; 1st young pn; 2nd hen; 2nd pullet; 3rd cock, and the medal for best display. Write your wants.

R. M. SEWARD R. 1 LEWISTOWN, ILL.

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LEG BANDS

Simple, scientific and absolutely satisfactory. Used by the U. S. Government, by practically every Agricultural College, and by leading Poultry Raisers everywhere.

Made in 10 Colors — 6 Sizes

Black, White, Dark Blue, Pink, Light Blue, Red, Yellow, Green, Purple and Garnet.

	12	25	50	100	250
No. 3—Baby Chick	.....10c	20c	35c	50c	\$1.15
No. 1—Pigeon	.....10c	20c	35c	55c	1.25
No. 5—Bantam	.....15c	25c	45c	75c	1.75
No. 2—Mediterranean	.....15c	25c	45c	80c	1.85
No. 4—American	.....15c	30c	50c	85c	2.00
No. 6—Asiatic	.....15c	30c	50c	90c	2.15
No. 7—Turkey	.....15c	30c	50c	90c	2.15

Special price on larger quantity. Send 14c and we will immediately mail you 15 Bands. State size and color wanted.

C. H. GORDINIER Dept. J. TROY, NEW YORK

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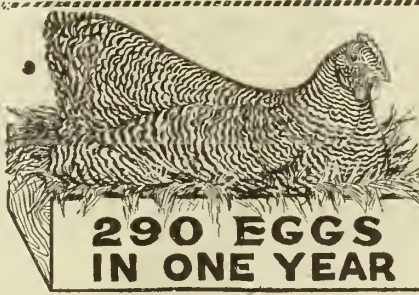
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Barred P. Rocks

I have a grand lot of Cockerels to offer of best laying blood at \$3.00 each; also pedigreed stock from high record hens at \$5.00, \$7.50 and \$10.00 each. Circular of facts free.

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290 EGGS IN ONE YEAR

What's a CAPON and Why?

A BOOK that explains everything you will ever want to know about CAPONS, 50 pictures from life that show each step in the operation. List of Capon Dealers' addresses. Tells how to prevent "slips," where to get the best and cheapest capon toops. Capons are immense eating. Big profits realized. Get wise. This book tells how. Regular 50c copy, prepaid to your address (a short time only), for 10c in coin or stamps.

GEORGE BEUOY R Route No. 7 CEDAR VALE, KANSAS

Light Brahmas and Dark Cornish

Both old and young stock in each of these breeds. These are all first-class birds. Satisfaction guaranteed or money refunded.

JOHN BLANCHARD Columbus, Wisconsin



U. R. FISHEL—HOPE, IND.

Buy Your Breeding Males Now

Never has there been the shortage of selected breeding male birds as exists at this season. Buy NOW and secure the best

U. R. Fishel's White Plymouth Rocks

carry blood lines no other fowls carry. They are noted for their vigor and vitality, and as egg-producers they have no superior, as prize-winners they have no equal. Winners at Six World's Fair Expositions, Twelve State Fairs, Chicago, etc. Write me your wants.

EXHIBITION BIRDS : SELECTED BREEDERS : UTILITY FLOCKS

U. R. FISHEL Box A HOPE, INDIANA

Majestic Buff Orpingtons

are now ready for you for show and breeding purposes. The most consistently shown strain in the middle west. Have reared over twice our usual season's quota in anticipation of a heavy demand due to drop in feed cost, which had already dropped 70c a bag and is still dropping. Can supply your wants for breeding purposes or for any show in America, at the right prices. Allow me to quote you on birds that will win for you. Remember, I won best display at the last Chicago Show. Cockerels, \$5 up, pullets, \$3 up. Special: Our regular \$10 pullets, only \$4 each while 100 last. Order at once and save \$6 on each bird. Satisfaction guaranteed absolutely.

OUR CATALOG FREE

F. A. KAUP BUFF ORPINGTON FARM

Est. 11 years. The farm with no dissatisfied customers

Box 1101 GLEN ELLYN, ILLINOIS

YOUR POOREST LAYER WILL BE A BIG PAYER



if you feed her plenty of protein in her feed. Protein makes eggs. Protein makes meat and bone—and the highest form of digestible protein food you can give your poultry is

DARLINGS MEAT CRISPS

A clean, dry, concentrate of fresh meat, 75% PROTEIN GUARANTEED. Thoroughly cooked, pressed and dried to remove the grease and moisture. This wonderful protein food will make all your hens lay more eggs and make your chicks grow bigger—faster.

Write for this Big Free Book Today

It tells you how you can adopt the feeding secrets of famous poultrymen and get more eggs and make bigger profits from your own poultry. Your copy of this valuable book is ready. Better send for it today. It's FREE and POSTPAID.

Darling & Co.
Dept. 10
U. S. Yards
Chicago



are right. Now he begins to examine his poultry papers and to look upon the editors and advertisements from a new angle.

As he turns the pages over he stumbles on an advertisement of the very house. What does this mean? Has not one of the editors on another page just been denouncing this very type of house? Another glance and the plot thickens—the paradox is getting tragic. The plans for the house denounced on one page are advertised for sale, and as a premium by the paper, on the next. What do they mean by such contradictory methods? What shall he do? Where shall he go? How shall he build or remodel? Are the blind trying to lead the blind?

Ah, A bright idea strikes him. He will send for bulletins. He does, and alas his last estate is worse than the first. He is told that with a few old boards, a roll of building paper, and a piano box or two and his troubles will be over. Nothing positive, nothing decisive. He is told what is needed in the way of ventilation but left without adequate assistance as to how to secure it.

The Hen.

The hen is a very unusual creature. She has no parallel proportionately among all our domestic pets. When she is in full health and working condition she is a high speed, heavy duty machine. She has the largest and most powerful heart, the largest capacity for storing and assimilating food, and the highest average daily or yearly production.

The normal temperature of our domestic animals, as well as mankind, is about 98 degrees, while that of poultry is from 103 to 107 or higher than any fever patient. Again, when our domestic animals are in normal health they urinate regularly, while poultry, the drinking more in comparison to size, does not. Its high temperature, heavy consumption of food and water, require special provision for exercise and ventilation to promote health and aid digestion. These points are generally overlooked, and they upset all rules and regulations for warmth and ventilation as applied to our homes, barns and stables.

Fresh Air and Oxygen.

Nature's method of keeping the blood pure, vigorous and dancing is simple and effective, if not interfered with.

The function of the heart is to pump the blood through the system, of which the lungs form a part of the circuit. The blood goes out thru arteries and returns by another route—thru the veins. Its function is to build up new tissues and tear down old. Every pulsation of the heart sends a portion of the blood thru the lung cavities where it is brought into contact with the oxygen inhaled with each breath.

The walls of the lungs are so constructed they retain the blood yet allow the oxygen to come into direct contact with it. By this exposure to the oxygen the impurities are consumed or burned up and the blood sent out purified for its next voyage thru the system, when it will again be returned and the process repeated over and over, day after day. The impurities thus removed are thrown off by the lungs in the form of gas or carbon dioxide.

If the air has been used or breathed over it becomes vitiated or devitalized, will not do its work thoroughly, and health suffers accordingly. Fresh pure air in abundance is necessary, therefore, to enable the lungs to do their work efficiently and also to carry away the dampness and impurities (carbon dioxide) thus produced. In this way the system is torn down and rebuilt every seven years.

Open and Cotton Fronts.

During the past decade there has been a constant wrangle between various authorities regarding ventilating methods. These authorities have been divided into two schools—the open front and the cotton front schools. Arguments pro and con are

unimportant. It will serve no good purpose to present them here. It will be necessary, however, to refer to some of their shortcomings as the two methods and ventilation are discussed.

There are three methods of ventilation: Forced ventilation, direct ventilation, and indirect ventilation. As the first is used and applies to public buildings exclusively it will not be discussed.

Direct ventilation is secured by opening a door or window. By this means its efficiency is influenced by size of opening, direction and velocity of wind, and temperature and humidity of the atmosphere.

In the various forms and shapes of open front houses direct ventilation is the means employed. In practice it has been found impossible to use this type without dangers from drafts and storms. To overcome these

PILLING CAPON TOOLS



Double the Weight From the Same Feed

Double the weight and double the price per lb.

So great has been the demand for those practical, ready-to-use caponizing tools that most dealers exhausted their stocks. The fact that the Pilling factory was working 100% on Government orders for surgical instruments prevented us from refilling their shelves.

But next Spring we shall be able to supply dealers who order early. Get your order in now—any poultryman with Pilling caponizing tools and our complete illustrated instructions can make each dollar's worth of feed produce four times as many dollars as with roosters. *Capon Book FREE.*

G. P. PILLING & SON CO., Phila, Pa.
Est. 1814 America's Pioneer Maker of Caponizing Tools

R. C. REDS

220 AVERAGE

OFFICIAL RECORD

Meyer's Famous R. C. Reds

Our Pen No. 59 holds the Highest Official Red Record

ever made in any laying contest.

Our pen No. 22 was first prize pen 1916-17 American Laying Contest. Our hen No. 6 in the Missouri National Egg-Laying Contest laid 114 eggs in 120 days. This shows that Meyer's Reds are leading all others. They are the world's supreme. They win first, year after year, in competition with the best blood in the world. We have the finest lot of young stock we ever raised. If you wish the best, write us your wants.

RIVERVIEW POULTRY FARM
KLONDIKE, MISSOURI

The Extra Eggs

will soon pay for one of these

Automatic Self-Heating Poultry Fountains and Heaters

Keeps water at the right temperature day and night in the coldest weather and requires less than a quart of oil a week. Made of Galvanized Steel. A long felt want supplied. Every Hen-House needs one. Price of 1 Heater and 2 gallon Automatic Fountain complete \$1.75. Order NOW or write for Circular and testimonials. Agents Can Make Big Money. Write for Offer.

C. A. S. FORGE WORKS, SARANAC, MICHIGAN

Orpingtons BUFF WHITE BLACK

Still richer quality to offer now, including some of the finest specimens in all America. Their distinct superiority is demanded for success nowadays. Standard weight Cockerels and Pullets; the big, massive kind; not the narrow, stilty kind.

Over 200 First Prize Winners furnished customers past year

The best of them closely approach perfection in color. They are bred, grown, conditioned and trained to win. Also a complete line of egg-bred breeders properly mated for results. Your satisfaction guaranteed always. Will accept Liberty Bonds in payment.

C. S. BYERS

(Active Orpington Specialist 18 Years)

Hazelrigg, Indiana

faults various different sizes and shapes have been employed. Styles of houses that are habitable at all in winter are hot and stuffy in summer, and so low they are difficult and unhandy to work in. On the whole, however, a majority of poultrymen do not like them; they seem brutal and improvident.

The aversion for the open house led to experimenting with various means to overcome the dangers from storms and drafts, and also provide a more convenient house to build and work in. The result of these efforts is the cotton front house, or semi-direct ventilation.

This style of house overcomes to a degree the errors of the open front, but others equally grave have developed.

It has been found impossible to determine the correct amount of cotton to use under various conditions. What is adequate one day is too much or not enough the next. Heat from sun, or cold at night, necessitate constant watching and frequent adjustments. Sudden changes in direction and velocity of wind and storms baffle the wisdom and watchfulness of the attendant. A house that becomes too warm in winter under certain conditions is more dangerous than the one that is too cold. Colds are inevitable.

The solution of ventilating difficulties will never be found in either the open front or cotton front houses. There is absolutely no question, however, but what they are a great improvement over "closed" or "heat-ed" types, and by careful manipulation and tireless vigilance birds can be kept during winter in fairly good shape; but in spring and fall colds are well nigh universal, due to overheating or drafts or both. We must look, therefore, elsewhere or employ some other principle if we would secure better conditions, successfully cope with the sudden changes of 40 to 60 degrees in less than 15 hours, and meet the unexpected shifts in direction and velocity of our storms.

The Problem Solved.

After trying every conceivable combination of ventilation, curtains and openings, without satisfactory results, it was discovered that indirect ventilation secured the desired end. It is not a new principle, but simply a new use and application of an old one.

Let us pause a moment and mention the laws bearing directly upon this new means of purifying the air for our flocks—indirect ventilation.

First: The amount or volume of air passing through a given opening depends upon its velocity.

Second: Heated air expands; becomes lighter and rises.

Third: Cold air contracts; becomes heavier and settles.

Fourth: The normal atmospheric pressure is about 14 lbs. per square inch, at sea level.

Indirect and semi-indirect ventilation makes use of these principles in a simple and efficient way for the elimination of dampness, carbon dioxide, and other impurities from our poultry houses, without any dangers whatever from drafts and sudden changes; securing all the good points of the old houses without any of their dangers and drawbacks. Drafts, dampness and frost-bites are practically unknown.

During the past winter (1917-18) (most severe and trying in 50 years) houses constructed along these lines have given phenomenal results. It places the novice on an equal footing with an expert in house management, and will revolutionize poultry raising and housing.

Mention the American Poultry Journal when writing to advertisers.



Pagel's Sanitary Non-Freezing Fountain

No Lamps—Keeps water warm in winter and cool in summer. If not at your dealer, send for circular and testimonials from pleased customers.

Manufactured by the Originator
FRED PAGEL Box 22 Rockford, Ill.

INDERKILL FARMS

White Leghorns bred from Lord Farms trap-nested stock. Cockerels \$2 to \$5; Pullets \$1.50 to \$3. Eggs for hatching \$2 a setting, \$10 per 100.
White Rock Cockerels \$7 to \$10 each, weighing eight to ten pounds. Eggs \$3 a setting.
75% of our cockerels are killed for table use, and only the choicest kept for our own breeding and for sale. Stock shipped on approval.
L. D. STEVENSON, Supt. STAATSBURG, N. Y.

We Imported This Fall Some More of Tom Barron's Best Layers

In this shipment are hens with records of 258, 260, 286 eggs; pullets from hen with 660 egg record for 3 years; pullets from hen with 283 egg record in one year; cockerels from hens with 283, 285, 287, 288 egg records. These birds will be among our breeders this coming spring. Hatching eggs at any time. Chicks after February 22.

Coleman Miles Egg Farm Mt. Carroll, Illinois

1896 WILLIAMS WHITE WYANDOTTES 1918

CHAMPIONS OF 1916-17-18

At Hagerstown 1916 and the last two shows at Madison Square Garden. I won first prize on 26, and 2nd on 3, out of a possible 32 first prize birds. I bred and raised every bird I exhibited. If you want quality, who can furnish better? Send for catalog and prices to the White Wyandotte specialist.

F. B. WILLIAMS Box H Naugatuck, Conn.

S. C. Brown Leghorn Cockerels and Pullets

Bred from my Chicago, Indianapolis, Columbus and Milwaukee winners, at prices ranging from \$5 for choice breeders to \$35 for birds fit to win at any show, no matter how hot the competition may be. Also a large flock of pullets bred from heavy layers at \$2 each or \$175 per 100. Write for mating list.

H. F. MOELLER -- Box 137 -- La Porte, Indiana

WHITE QUILL WHITE ROCKS

Win at the Wisconsin State Fair, September 9 to 14, 1918

In an outstanding class of high-class White Rocks, my birds won 5 firsts, 1 second, 3 thirds and 1 fifth on 12 entries, which again proves that White Quill White Rocks are right among the leaders.

Cock 3-5; Hen 1-3; Cockerel, 1-3; Pullet, 1-2-3; Pen old, 1st; Pen, young, 1st.

I am ready to furnish you with anything in the line of show birds as well as high-class utility birds and high record layers. Write your wants, please.

A. F. POLTL, Hartford, Wis.

Exhibition Cockerels for America's Largest Shows

Guaranteed plan **MIDDLEMARCH CHAMPIONS**—Buff and Black Orpingtons, Linebred 13 years. Winners at Chicago Coliseum, Milwaukee, Memphis, New Orleans, American Royal, Terre Haute, Minneapolis. **JESSIE F. GORDON, Box 535, Spring Valley, Minn.**

BUFF ORPINGTONS—Golden Nugget Strain

A GRAND LOT OF BIRDS FOR SALE in either sex. I guarantee satisfaction or refund your money. Write me your wants in BUFF ORPINGTONS before placing your order ANYWHERE.

LOGAN BAIRD Box A LA MOILLE, ILL.

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ALMY'S REDS

Single Comb

COCKERELS and PULLETS, Cocks and Hens

Single Birds, Pairs or Pens—The Kind That Win

RED FEATHER FARM F. W. C. ALMY, Prop. Box 100 TIVERTON-4-CORNERS, RHODE ISLAND

STARKS WHITE ROCKS Winners at Madison Square Garden Wonderful layers. Write for catalog **STARKS FARM, Box 100, STARKS, WIS.**

WITH THE EGG LAYING CONTESTS

Final Report of American Egg-Laying Contest.

The hens in the American Egg-Laying Contest at Leavenworth, Kansas, made an average of 13 1/2 dozen eggs per bird, or a total of 162 eggs each during the past year. Some of these birds scored as high as 95 1/2 points. All were Standard bred. The first prize pen in the breeders' contest was a pen of exhibition Light Sussex from Ohio, No. 48, with a record of 1,039 eggs. The highest pen in the Leghorn contest was pen No. 67 from Washington, with a record of 1,145 eggs. The best individual record ever made in the American contest was made by White Leghorn No. 1101 from Pennsylvania, with a record of 304 eggs. The leading pen of yearling hens, R. I. Whites, No. 35, from Illinois, laid 1,002 eggs.

The best individual record in the yearling hen contest was made by White Rock hen No. 28 from Illinois. She laid 265 eggs, which is quite good for a hen that is now two years old. The highest individual record in the breeders' contest was made by R. I. White hen No. 351 from Illinois, which laid 258 eggs.

The fact that these birds were all Standard bred and averaged 162 eggs per bird, speaks well for American breeders and the progress which they are making along the line of combining Standard qualities with egg production. The eggs laid by these hens sold for approximately \$6 per bird. The feed cost was in the neighborhood of \$2.50 per bird, which left about \$3.20 to cover cost of labor, interest on equipment and profit. If records are kept on your flock you can make more per bird at present prices of feed, eggs and poultry than at any time in the past if the right methods are used. Of this there is no doubt.

Breeders' Contest.

The five leading hens for the year were as follows:

- No. 351—R. I. White, Illinois.....258 eggs
- No. 102—S. C. W. Leghorn, Illinois, 248 eggs
- No. 273—White Orpington, Illinois, 245 eggs
- No. 131—Ancona, Ohio.....236 eggs
- No. 306—S. C. Red, New York.....233 eggs

The five leading pens for the year were as follows:

- No. 48—Light Sussex, Ohio.....1039 eggs
- No. 7—Buff Leghorns, Michigan..1033 eggs

- No. 43—Wh. Wyandottes, Illinois..1005 eggs
- No. 35—R. I. Whites, Illinois.....1002 eggs
- No. 9—Buff Leghorns, Ohio..... 992 eggs

Leghorn Contest.

The five highest hens for the year were as follows:

- No. 1101—White Leghorn, Penn....304 eggs
- No. 674—White Leghorn, Wash....274 eggs
- No. 626—White Leghorn, Illinois...258 eggs
- No. 1015—White Leghorn, Ohio.....251 eggs
- No. 1105—White Leghorn, Penn....248 eggs

The five highest pens for the year were as follows:

- No. 67—White Leghorns, Wash...1145 eggs
- No. 70—White Leghorns, Wash...1137 eggs
- No. 110—White Leghorns, Penn....1133 eggs
- No. 132—White Leghorns, Kansas..1056 eggs
- No. 99—White Leghorns, Ohio.....1030 eggs

Yearling Hen Contest.

The five highest yearling hens for the year were as follows:

- No. 28—White Rock, Illinois.....265 eggs
- No. 351—R. I. White, Illinois.....258 eggs
- No. 341—R. I. White, N. J.....231 eggs
- No. 354—R. I. White, Illinois.....222 eggs
- No. 379—White Wyandotte, Ark....219 eggs

The five highest pens of yearling hens for the year were as follows:

- No. 35—R. I. Whites, Illinois.....1002 eggs
- No. 34—R. I. White, New Jersey... 954 eggs
- No. 69—White Leghorns, Illinois... 905 eggs
- No. 1—White Rocks, Illinois..... 900 eggs
- No. 59—White Leghorns, Missouri.. 884 eggs
- No. 67—White Leghorns, Canada.. 884 eggs

The averages made by the different varieties in the breeders' contest were as follows:

Variety	October Leader	Best Pen for October	Av. Pul. 12 Months	High Layer 12 Mth., Pul.	High Pen 12 Mth., Pen
Black Leghorns	15 eggs	32 eggs	172.1 eggs	212 eggs	960 eggs
Anconas	19 eggs	43 eggs	184.4 eggs	236 eggs	922 eggs
White Rocks	18 eggs	42 eggs	151.6 eggs	207 eggs	833 eggs
Buff Rocks	22 eggs	53 eggs	131.5 eggs	214 eggs	713 eggs
Brown Rocks	24 eggs	67 eggs	167.3 eggs	218 eggs	913 eggs
White Orpingtons	22 eggs	64 eggs	163.1 eggs	245 eggs	975 eggs
S. C. Reds	21 eggs	66 eggs	177.7 eggs	205 eggs	926 eggs
R. C. Reds	19 eggs	51 eggs	173.4 eggs	258 eggs	1002 eggs
R. I. Whites	20 eggs	66 eggs	150.0 eggs	210 eggs	795 eggs
Silver Wyandottes	19 eggs	44 eggs	137.0 eggs	210 eggs	685 eggs
Columbian Wyandottes	20 eggs	52 eggs	186.3 eggs	216 eggs	1005 eggs
White Wyandottes	22 eggs	75 eggs	166.0 eggs	223 eggs	1039 eggs
R. L. Sussex	24 eggs	53 eggs	134.1 eggs	211 eggs	671 eggs
Spangled Sussex	16 eggs	34 eggs	151.0 eggs	230 eggs	833 eggs
Brown Leghorns	16 eggs	39 eggs	192.0 eggs	227 eggs	1033 eggs
Buff Leghorns	22 eggs	46 eggs	178.7 eggs	248 eggs	959 eggs
White Leghorns	21 eggs	41 eggs			

Fourth Arkansas State Egg-Laying Contest.

The following table shows the average production of the different breeds:

Breed	No. of Birds	Av. Produc. Per Bird
Barred Rocks	10	131.4 eggs
White Rocks	15	126.3 eggs
Columbian Rocks	10	145.8 eggs
Partridge Rocks	5	90.0 eggs
Rhode Island Reds	20	134.3 eggs
White Wyandottes	5	144.2 eggs
White Leghorns	25	155.4 eggs
Brown Leghorns	10	135.7 eggs

The following table shows the production of the leading breeds by months and the number of eggs laid by each.

Month	Pen No.	Breed	Eggs
Nov.	12	Barred Rocks	33 eggs
Dec.	6	S. C. White Leghorns	57 eggs
Jan.	1	Barred Rocks	56 eggs
Feb.	10	S. C. R. I. Reds	79 eggs
March	20	Columbian Rocks	120 eggs
April	10	S. C. R. I. Reds	115 eggs
May	20	Columbian Rocks	115 eggs
June	20	Columbian Rocks	99 eggs
July	14	S. C. White Leghorns	109 eggs
Aug.	18	S. C. White Leghorns	105 eggs
Sept.	7	R. C. R. I. Reds	91 eggs
Oct.	20	Columbian Rocks	74 eggs

The following table shows the average production per bird by months:

Month	Average	Month	Average
November	2.63 eggs	May	18.95 eggs
December	4.69 eggs	June	15.23 eggs
January	5.12 eggs	July	15.82 eggs
February	11.13 eggs	August	12.59 eggs
March	19.17 eggs	September	10.48 eggs
April	15.01 eggs	October	6.11 eggs

Breaks Egg Record—Saves Feed

With eggs at 80c to \$1 per dozen, how would you like to have a flock of hens that would equal the record of this great hen, 304 eggs in twelve months? Or, if they would average even 150 to 190 eggs, you could make big money. This wonderful hen just made a record of 304 eggs during the past year in the American Egg-Laying Contest. The balancing of the feed so that the daily ration could be turned into practically the same number of yolks and whites made is possible for her to make one of the world's greatest records in an official egg laying contest.

It is possible for you to turn every yolk into an egg and get a 100 percent egg yield. Every hen must have the proper feed to make as many whites as yolks or it is impossible for her to lay her full number of eggs. Poultry raisers lose millions of dollars each year by feeding grains which produce more yolks than whites, the hens therefore become overfat and egg production is reduced.

This hen was handled according to the methods of Prof. T. E. Quisenberry, Box 206, Leavenworth, Kansas, president of the American Poultry School. His new 16-page bulletin tells how to balance your feed so the hen does not waste a lot of energy and food. He tells you how to feed so as to double your egg yield; how to save on feed; how to grow winter green feed; how to cheapen your feed, and how this 304-



Hen No. 1101, Which Broke the American Laying Contest Record With 304 Eggs in Twelve Months

egg hen was fed so as to manufacture nearly her own weight in eggs every month in the year and still stay in good health. Some suggestions are also given for culling out the drones. Thousands pronounce this the best 16-page bulletin or book ever written on the poultry feeding problem. Many poultrymen can double their winter egg yield by following these directions and on less dollars spent for feed.

If you really need information of this kind you can get a copy of this bulletin absolutely free by writing to Prof. Quisenberry at the above address. Write today while they last.—Adv.

The following table gives the amount of feed, grain and dry mash required by the different breeds to produce one dozen eggs:

Breed	No. of Birds	Feed to Prod. 1 Doz. Eggs
Barred Rocks	10	9.93 lbs.
White Rocks	15	11.25 lbs.
Columbian Rocks	10	8.21 lbs.
Partridge Rocks	5	11.12 lbs.
Rhode Island Reds	20	9.10 lbs.
White Wyandottes	5	8.68 lbs.
White Leghorns	25	7.71 lbs.
Brown Leghorns	10	8.08 lbs.

The number of pounds of grain required to produce one dozen eggs was 5.62 and the number of pounds of dry mash was 3.91, making the total of 9.53 pounds of grain to produce one dozen eggs.

S. P. Stout, Assistant in Poultry Husbandry.

150 S. C. BUFF 150

ORPINGTONS

COCKERELS

PULLETS

To PLEASE

Also nicely moulted out hens and cocks for

EXHIBITION

A. T. MENDENHALL, Greensburg, Ind.
S. C. Buff Orpington Specialty Breeder

Final Report of the Seventh National Egg Laying Contest.

Pen 36, S. C. White Leghorns, owned by C. J. Labahn, formerly of Lincoln, Missouri, but now located at Benld, Illinois, won the honors for the year with a record of 1,171 eggs to their credit, averaging 234.2 eggs per hen, beating their nearest competitor 46 eggs.

Ninety-three hens, or 31 percent, laid 200 eggs or more during the year. The 300 hens averaged 171.86 eggs each during the year. The high hen, a White Wyandotte, laid 286 eggs, tying the previous high individual record of the 1913-14, or Third Contest. The 300 hens in the sixth or previous year contest, averaged 175.2 eggs per hen per year fed on a perfect egg ration.

The results of this, the seventh contest, prove that hens bred to lay will produce a high average altho fed what necessity compels—the most available ration at hand.

During the life of the contest the hens were fed a war ration consisting principally of corn chops as a grain feed. Each bird consumed 4 1/2 lbs. of corn chops, 5 lbs. of wheat and 42 lbs. of mash, making a total of 87 1/2 lbs. consumed by each bird for the year.

The mash ration used in the contest was as follows:

Shorts	20 lbs.
Bran	20 lbs.
Ground oats	20 lbs.
Corn meal	20 lbs.
Beef scraps	26 lbs.

The birds were fed this mash moistened in the mornings, what they would clean up by noon, and the same mash was kept dry in the hoppers before the birds at all times. The grain was fed principally at night—all that they would clean up.

The wheat used in this contest was of a low grade and could not be used for bread purposes.

The cost of keep per hen was \$2.64 for the year. The gross receipts per hen was \$5.75 per year, leaving a profit over the cost of feed of \$3.11 per hen per year.

The Contest.

Pen 36, S. C. White Leghorns, Missouri, won the \$50 cash and silver cup by laying 1,171 eggs for the year, an average of 234.2 eggs each. Hen 1, Pen 47, White Wyandotte, won the individual prize by laying 286 eggs.

The winning pen in each variety is as follows:

Pen	Eggs
36 S. C. White Leghorns.....	1,171
49 R. I. Whites	1,125
14 White Wyandottes	1,120
34 Anconas	(tie) 1,099
4 Barred Rocks	(tie) 1,099
7 S. C. Reds	1,089
13 Silver Wyandottes	1,009
15 Buff Wyandottes	1,002
59 White Rocks	986
24 Buff Orpingtons	954
53 R. C. Reds	922
19 Black Orpingtons	890
55 Buff Rocks	826
35 S. C. Brown Leghorns	809
41 White Orpingtons	748

The highest pens for each variety for October:

Pen	Eggs
13 Silver Wyandottes, Iowa.....	83
46 Buff Wyandottes, Missouri	86
44 White Wyandottes, Missouri	79
27 Anconas, Missouri	72
7 S. C. Reds, Missouri	70
58 Buff Rocks, Missouri	65
1 Barred Rocks, Missouri.....(tie)	62
5 White Rocks, Idaho	(tie) 62
9 R. I. Whites, Illinois	(tie) 62
11 R. C. Reds, Missouri	(tie) 58
21 Buff Orpingtons, Missouri.....(tie)	58
36 S. C. White Leghorns, Missouri.....	48
38 White Orpingtons, Missouri.....	46
19 Black Orpingtons, Indiana.....	41
35 S. C. Brown Leghorns, Missouri.....	36

The ten highest pens for the year are as follows:

Pen	Eggs
36 S. C. White Leghorns, Missouri.....	1,171
49 R. I. Whites, New Jersey.....	1,125
14 White Wyandottes, Missouri	1,120
34 Anconas, Missouri	(tie) 1,099
4 Barred Rocks, Michigan	(tie) 1,099
7 S. C. Reds, Missouri	1,089
27 Anconas, Missouri	1,082
47 White Wyandottes, Missouri.....	1,074
57 Barred Rocks, Missouri	1,072
30 Anconas, Missouri	1,013



ANOTHER SMASHING VICTORY!!

"Hillview" White Leghorns

in the Missouri Egg-Laying Contest ending Oct. 31, '18, won FIRST HONORS!
in competition with 60 pens, consisting of 20 breeds and varieties

1,171 EGGS in one year is the official record of these wonderful five hens, an average production of 234.2 eggs each. They finished the contest 46 eggs ahead of their nearest competitors and 218 eggs ahead of all other Leghorns entered in the contest. In addition to this, a Hillview hen was crowned Queen of all Leghorns by laying 248 eggs for the year.

To celebrate our big victory we are now starting a special \$5.00-COCKEREL SALE-\$5.00

We are offering 1,000 big sturdy cockerels, bred in pedigree line and rich in the same blood-lines as our laying contest winners, at HALF PRICE, \$5 each. This is a bargain you cannot afford to miss—an opportunity to secure breeding cockerels that will improve the egg-laying qualities and will stamp this character permanently and profitably in your flock. Our repeated winnings at the National Laying competitions (see catalog) back up our claims. Get one or more of these cockerels; write today and order right from this advertisement. One cockerel for \$5, two cockerels \$9.50, three cockerels \$14, four cockerels \$18.50, five cockerels \$22.50. Watch the improvement in the egg yield of your next season's pullets. Sale expires January 15, 1919.

The Best by Actual Test

"Hillview" Leghorns have stood the test of public competition for many years. They come back year after year. In the show-room we have never lost best display. At the National All Leghorn Show, Columbus, Ohio, last year, we won best display and all shape, color and head specials. At Kansas City we have won every ribbon. At St. Louis we have won every ribbon, excepting on cock birds—we did not show any cock birds. We have furnished more of the winning cockerels for Chicago than any other farm in the West during the past six years. We have hundreds of youngsters now ready to win any show, no matter how large or small—great big fellows, with long concave broad backs and saddles, neat head points, pure white and profusely plumaged, and well up on deep-yellow legs. **BIRDS THAT WILL WIN THE BLUE! REAL BREEDERS OF QUALITY.**

Write for our 24-page catalog, including price list. It's free.

HILLVIEW FARM Box 1091 **C. J. LABAHN**
Benld, Illinois **Sec'y and Gen. Mgr.**



Tom Barron Strain S. C. W. Leghorns

My pens have been averaging 60 percent for the past year, and many of my breeders are from 252-egg record hens. Get my catalog and place your order for chicks early this year, as the supply will not satisfy the demand and late comers will be disappointed. My last year's customers report that their pullets are producing exceptionally well. Send for catalog and read of my stock and methods.

WHITE FEATHER EGG FARM A. H. Grewe, Prop. **DES PLAINES, ILL.**

STOCK EGGS AND BABY CHICKS

Now is the time to order baby chicks for spring delivery to be sure of early chicks. We breed for heavy egg production. Won over 2,500 1st, 2d and sweepstake prizes, 1917-18, in Illinois, Iowa and Kentucky. Sold United States Government 500 hens for Government farms in Panama. Can furnish Barred, Buff, White, Part. Rocks; Single and Rose Comb Reds; Buff, Black, White Orpingtons; White, Columbian, Silver-Laced, Part. Wyandottes; Light Brahmas, Black Langshans, Anconas, Black Minorcas, White and Brown Leghorns. Catalog, show record and price list free.

STERLING POULTRY FARMS Box A **STERLING, ILLINOIS**

CARBO STEEL POSTS UNIT cheapest, most durable, SYSTEM sanitary poultry fences.



Bolt together for rigid corner, gate or end posts. Use units singly for line posts or Carbo Drive Posts. First cost of post less than wood. Made any height. Write for Booklet Today.

STRONG LIGHT, SPRINGY STEEL

CARBO STEEL POST CO. Department C **CHICAGO HEIGHTS, ILL.**

BUFF ROCKS **WON EVERY FIRST PRIZE OFFERED**

at Kansas City Show. Pronounced by Judge Drevenstedt best class he ever saw. First prize winners at Madison Square Garden, N.Y.; Palace, Chicago; Kansas City; World's Fair. Two pullets at Mountain Grove laid 220 and 201 eggs each. Get my catalog.

C. R. BAKER Box A **ABILENE, KANSAS**

Single Tompkins' Rhode Island Reds Rose

Grand flock of well developed youngsters for the winter shows and breeding pens. This grand old line of Rhode Island Reds has stood the test for many years and is the foundation of most real lines in existence today. A fine assortment of breeding pens now ready for the coming season and of the richest Madison Square and Boston winning blood. Write your wants fully to

HAROLD TOMPKINS Box A **CONCORD, MASS.**



S. C. W. Leghorns

We have 200 extra choice Cockerels and Cock Birds for sale, bred from Bertley farms heavy layers. Selected from over 4,000. They are priced to sell. Write us your wants.

Bertley Farms, Glenwood, Ill.

RO-SAN Indoor Closet

The original chemical closet. More comfortable, healthful, convenient. Takes the place of all outdoor toilets, where germs breed. Be ready for the long, cold winter. Have a warm, sanitary, comfortable, odorless toilet right in the house anywhere you want it. Don't go out in the cold. A boon to invalids.

GUARANTEED OODRESS
The germs are killed by a chemical in water in the container. Empty once a month as easy as ashes. Closet guaranteed. Thirty days' trial. Ask for catalog and price.

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Ask about Ro-San Washstand, Hot and Cold Running Water Without Plumbing.

Increase the Egg Yield

Because the Ideal Sanitary Fountain keeps water at the right temperature in zero or the hottest weather, it conserves the health of the hens and greatly increases the egg yield.

The Ideal is made of galvanized iron and built to last a lifetime. See your dealer. Write us for complete information.

Rockford Poultry Supply Co.
Lock Box 3, L. 201
Rockford, Illinois

Shoemaker's Poultry Almanac and Incubator Book for 1918

200 pages, with many colored plates of fowl true to life. Tells about chickens, cost, care, diseases and remedies. All about **INCUBATORS** their prices and operation. How to get good hatches, etc. All about poultry houses. Only 15 cents. Money back if not satisfied.

C. C. SHOEMAKER, Box 605, FREEPORT, ILL.

Mention the American Poultry Journal when writing to advertisers.

Report of the Fifty-second Week of the Seventh Annual International Egg-Laying Contest.

Storrs, Conn., October 31, 1918.

The seventh international egg-laying contest at Storrs ended late Wednesday afternoon when hen No. 982, a White Leghorn from Lakewood, N. J., laid the last egg. The two outstanding features of the competition just ended are the remarkable performance of a pen of birds from Corvallis, Ore., and the individual work done by White Wyandotte hen No. 195 from Bridgeton, R. I. At this point it may be said that during the past five years the poultry department at Storrs has trap-nested over 5,000 hens representing thirty different breeds and varieties from twenty states and including birds from Canada and England. The pen of "Oregons" entered by the Oregon Agricultural College has beaten them all. These ten birds laid 2,352 eggs as compared with the best previous record of 2,265 made two years ago by a pen of White Wyandottes. Connecticut's best birds were Buff Wyandottes entered by H. P. Cloyes of Hartford.

The best individual record has also been broken. During ten years of trap-nesting, 236 eggs has been the best that any one hen could do until this White Wyandotte owned by Obed G. Knight finished up the year with 308 eggs. Besides winning first at Storrs this bird is second best in a class of only four American hens with official records of more than 300 eggs each. The following table shows these four leading layers with their records and where they were made.

White Leghorn, Delaware Contest...314 eggs
White Wyandotte, Storrs Contest...308 eggs
"Oregon," Ore. Agricultural Col....303 eggs
White Rock, Vineland Contest.....301 eggs

In the Barred Rock class hen No. 112 from Palenville, N. Y., was first with a score of 264 eggs. Hen No. 673 from Hollywood, Wash., with a record of 233 eggs was the best White Leghorn for the year. In the Rhode Island Red class hen No. 423 from Southboro, Mass., was first with a yield of 240 eggs.

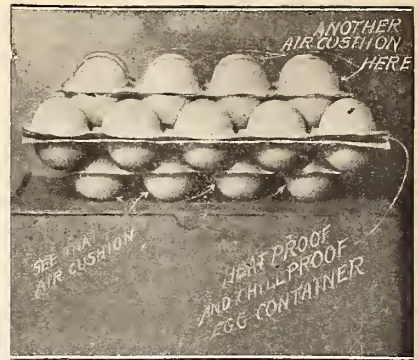
The grand total for all pens was 158,920 or an average of about 4 1/4 eggs less per hen than was laid in the contest last year. The subjoined table shows the number of birds in each breed, the average annual individual egg yield, and the general average for all varieties engaged in the contest.

130	Barred Rocks	.....	169.0
100	White Wyandottes	.....	168.3
170	R. I. Reds	.....	148.0
430	White Leghorns	.....	162.4
170	Miscellaneous	.....	147.7
1000	Average for all breeds	.....	158.9

The following list shows the twenty best pens in the order of their production and gives their total egg records for the year.

53	Agricultural College, Corvallis, Ore. "Oregons"	2352
20	Obed G. Knight, Bridgeton, R. I. White Wyandottes	2179
68	Hollywood Farm, Hollywood, Wash. White Leghorns	2043
3	Richard Allen, Pittsfield, Mass. Barred Rocks	2037
59	Exmoor Farms, Lebanon, Pa. White Leghorns	2030
60	J. O. LeReve, New Paltz, N. Y. White Leghorns	2014
87	Oak Hill Estate, Uniontown, Pa. White Leghorns	2000
44	Richard Allen, Pittsfield, Mass. Rhode Island Reds	1962
73	A. P. Robinson, Calverton, N. Y. White Leghorns	1933
5	Tom J. Adamson, Laurel P. O., Quebec Barred Rocks	1920
21	Brayman Farm, Westville, N. H. White Wyandottes	1902
81	J. Frank Dubois, East Lynn, Mass. White Leghorns	1885
4	Jules F. Francais, Westhampton Beach Barred Rocks	1881
12	Ingleside Farm, Palenville, N. Y. Barred Rocks	1881
78	E. A. Ballard, Chestnut Hill, Pa. White Leghorns	1848
27	Laurel Hill Farm, Bridgeton, R. I. White Wyandottes	1831
70	Tom Barron, Catforth nr. Preston, Eng. White Leghorns	1827
26	F. W. Harris, Melrose, N. Y. White Wyandottes	1825
33	H. P. Cloyes, E. Hartford, Conn. Buff Wyandottes	1823
71	Miss N. H. Bell, Ightham, Kent, Eng. White Leghorns	1813

Robadel Poultry Farm, Cos Cob, Conn., reports the following good list of winnings at the New York State Fair, September 9-14, 1918: 1-2-3-4-5 cock, 1-2-3-4-5 hen, 1-2-4-5 chl, 1-2-3-4 pl, 1st old pen, 1st young pen, and all special prizes.



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Views on the White Wyandotte Farm of Chas. V. Keeler, R. F. D. 11, Winamac, Ind.

Re-chickening France.

There are few breeders of Standardbred poultry in the United States who have not given some thought to the part that American poultrymen must play in the work of rebuilding the poultry industry in France and Belgium. The work in northern France is now under way.

In June, 1917, a group of ten American women were taken by General Petain into the devastated region of northern France and placed at Blerancourt in the Aisne for the purpose of reinstating the moral as well as the physical welfare of the civilian population, which, since 1914, had suffered under the Germans. These women, under the leadership of Mrs. A. M. Dike and Miss Anne Morgan, were requested to wear the French uniform and were made a part of the 3d Army Corps, later the sixth army. This was the beginning of the work of the American Committee for Devastated France.

More than two hundred villages and several thousand acres of farm land were turned over to the committee. They were asked by the French government to assume responsibility for all relief work among the civilian population in these territories. With the driving back of the Hun, there came an ever increasing stream of French refugees anxious to get back to what little of their homes had been left by the retreating Germans. They were discouraged, helpless people, without food, clothing or tools or materials with which to work. To feed and clothe these people and help them to become self-supporting upon their own farms has been the work of the American Committee for Devastated France.

The leaders of this work early turned to poultry raising as the quickest and best means of aiding the French refugees to become self-supporting and also to contribute to the support of others. Incubators were provided and placed on farms under the control of the committee. Eggs were purchased in southern France and furnished to these farms in the devastated areas. For many months this work of "re-chickening" France has been going on. The success which has attended the work reflects great credit upon the leaders, not only for their foresight in choosing poultry raising as the quickest and best method of meat production but also for their skill in handling the work.

The need for this work is rapidly increas-

ing. In the valley of the Aisne as well as in other large areas of devastated France not a chicken or an egg can be purchased at any price. The native chickens have been entirely destroyed by the retreating Huns. The whole poultry industry must be entirely rebuilt.

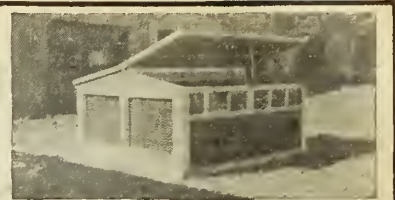
The opportunity for the introduction of American varieties of poultry, American incubators and equipment and American methods into this vast area of devastated France is now open to the poultrymen of America.

The greatest need before the committee just now is for the establishment of a central breeding station, stocked with the best breeding stock obtainable, the installation of a mammoth hatchery where chicks in large number may be produced for distribution among the people as they are re-established upon their own farms, and for instruction in American methods. This great need must be met immediately by voluntary contributions from the poultrymen of America. A campaign is now under way to raise a fund of at least \$5,000 for this work.

The American Committee for Devastated France is the logical agency thru which the poultry men of America should work in doing this part in the rebuilding of the poultry industry in devastated France. They are already in the field. They have the recognition and support of the French government, and it is depending upon them for this work. The machinery for carrying on the work both here and in France is established. Every dollar contributed to this fund is effective. Not a penny of it is used for salaries. All overhead expenses are eliminated.

Prof. Milligan C. Kilpatrick, instructor in poultry husbandry at the Ohio State University, has been chosen by the committee to direct this work. He expects to sail donating his services. He expects to sail for France about January 1. It is hoped that sufficient money, breeding stock and equipment will be contributed before that time so that he can proceed at once with the establishment of a central breeding station and hatchery. The greatest need just now is the money. What will you do to help? Has your state poultry association made a contribution.

Herbert H. Knapp, president of the International Baby Chick Association, Shelby, Ohio, is treasurer of this special poultry fund. Send him your contribution today.



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PERSONAL MENTION

E. M. Whitney, manager of Sears-Roebuck's poultry feed department, paid us a visit the other day, and he does not "view with alarm" by any means. Whit is very enthusiastic over the poultry outlook for the coming season, and his many friends will be glad to learn that he is enjoying unqualified success in his present position.

M. S. Barker, the Black Langshan breeder, of Thorntown, Ind., is in line for congratulations, as he was elected state representative at the November 5 contest. We shall expect M. S. to keep his eye peeled for anti-cock-crowing statutes, fat hen embargoes, etc.

Harry Lamson, senior poultryman of United States department of agriculture, passed thru Chicago early in the month in connection with his duties. Mr. Lamson is very much interested in the reports of the effect the government campaign has had on in-

creased production. Poultrymen report sales of from two to four times as much stock this year as compared with the corresponding months last year. Keep up the good work, Harry.

A. A. Berry, of Clarinda, Iowa, was in town renewing old acquaintances this month. Besides operating the largest farm seed concern in the world, Mr. Berry finds time to do an extensive poultry business. For October he reports sales about 100 percent larger than last October.

Way down in San Antonio, New Mexico, C. B. Allaire is doing his best to improve the laying ability of the stock in that vicinity. The demand for pure bred birds is increasing by leaps and bounds in the South, as is proved by the great increase in orders for show birds and utility stock, and Mr. Allaire has a good field for his efforts.

A true fancier is I. H. Murray, 11337 Longwood Drive, Chicago. It does our heart

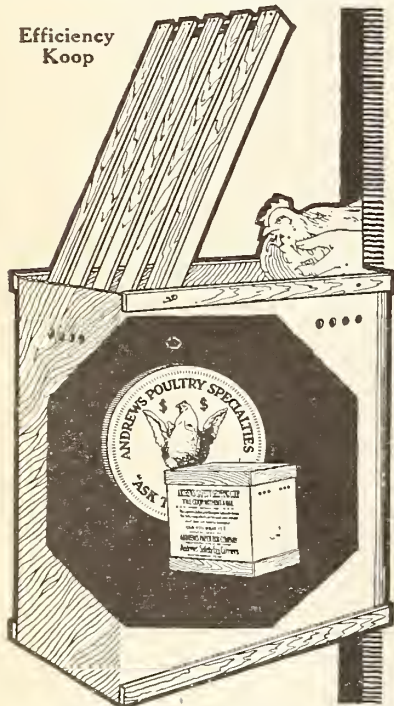
good to hear him talk about his chickens. Mr. Murray is connected with a large concern at the stock yards and raises thoroughbred poultry as a hobby. He is the originator of Brown Anconas, and no mother's description of her first born has anything on Mr. Murray when he gets to talking about his pets.

The national meet of the American Cornish Club will be held with the Kansas City show, January 13-18, 1919. Premium list now ready.



One of the Ancestors of the Rhode Island Reds.

The above illustration is reproduced from a photo by Dr. P. T. Woods, taken at the museum of the Peabody Academy of Science, East India Marine Hall, Salem, Mass., of a well preserved, mounted specimen of Red Game fowl. This Red Game cock was brought from Malay about the year 1846 by Captain Richard Wheatland and was bred in Salem, Mass., about three years, by George Wheatland, Jr. This cock has a pea comb, yellow legs, plumage which is a rich nearly uniform red throat, with the exception of one wing, which shows white in the primaries. The tail is solid red. Under-color ranges from light to dark slate. This specimen is evidently typical of the Red Malay Game or red Wild Indian Fowl, once so popular with New England seafaring men and which is credited with being one of the progenitors of the red farm fowl of Rhode Island, which later became the Rhode Island Reds.



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The old-fashioned wooden coops are a source of much loss to poultrymen. They are expensive, and can only be used once or twice. Being heavy they bruise the birds and shoot shipping charges way up. All this despite the trouble taken to nail them up.

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TRAPNESTED BLACK Langshans—200 to 275-egg strain. Settings, \$2 up. Catalog. Lorenz Co., Perryville, Mo. 10-12

THRASH'S BLACK LANGSHANS—Big husky cockerels, hens, pullets. Write Thrash's Langshans, Fort Wayne, Ind., Route No. 9. 11-12

GOOD SCORING BIG Black Langshans, guaranteed to suit. H. Osterfors, Hedrick, Iowa. 11-1

WHITE LANGSHAN of quality stock for sale. Alonzo Tyner, Greenfield, Ind. 12-2

I HAVE SOME choice Black Langshan cocks and cockerels for sale from \$5 up. Now is your time to order. A Stransky, Chilton, Wis. 12-2

BLACK LANGSHANS—Cockerels and pullets for sale. Satisfaction guaranteed. F. D. Gadsby, Shelby, O. 12

BLACK LANGSHAN COCKERELS—Big, heavy boned, pure bred stock. Miss Eva M. Jones, La Salle, Ill., Route 2. 12

BLACK LANGSHAN cockerels for sale. Charlie Jessen, Lakefield, Minn. 12

S. C. WHITE LEGHORNS

TOM BARRON SINGLE COMB White Leghorn pullets and hens from imported foundation stock, \$3.50; cocks and cockerels, \$10. Prolific winter layers of the big combed, long bodied type. Catalog free. Northland Leghorn Yards, Grand Rapids, Mich. 12

S. C. W. LEGHORN cockerels, pullets; hens, 282 eggs. L. Barker, Marysville, O. 12

FOR SALE—SINGLE COMB White Leghorn cockerels. "Hillview" bred, six months. White Rock cock birds, "Fishes" strain, one year. Cheap, quick sale. E. Lee, Route 1, Box 45, La Grange, Ill. 12

S. C. WHITE LEGHORN hens and pullets from \$1.50 to \$2.50 each. John Hass, Bettendorf, Iowa. 12

S. C. WHITE LEGHORN cockerels—Fertis best strain, \$3, \$4 and \$5 each. Geo. Hartman, Rose Creek, Minn. 12-2

FOR BARGAINS IN LEGHORNS and reliable information on all varieties consult The Leghorn World, Box 12, Waverly, Ia. Six months trial subscription, 10c. 12-5

CHOICE SINGLE COMB White Leghorn cockerels, \$1.50 to \$5 each. Smith strain. Edgar Lebkuucher, Greenfield, Ill. 12

SINGLE COMB WHITE Leghorn cockerels, Tom Barron strain, \$2 each. Oliver Shane, Iowa Falls, Iowa. 12-2

SELECT COCKERELS—Chicago winners. Two hundred-egg stock. Reasonable. A. W. Raabe, Hillsboro, Ill. 12

MY SINGLE COMB WHITE Leghorns are bred by "Hogan System." Ten years' selection combines utility and beauty. 100 breeding and exhibition cockerels, hens, pullets, \$3 up. (Reference: this Journal.) Alba Farm, Jamestown, Pa., Route 40. 10-12

COCKERELS FROM prize winners. \$2.25. James Ward, 924 Fayard St., Biloxi, Miss. 12

SINGLE COMB WHITE Leghorn cockerels—Parent stock comes direct from birds that won blue ribbons at all the best shows in the Middle West. Have won firsts at the Missouri Egg Laying Contest. \$2 each. A. L. Ackerman, Rich Hill, Mo. 10-12

SINGLE COMB WHITE LEGHORNS—Several hundred yearling hens and April hatched pullets, reasonable. Satisfaction guaranteed. Miller Poultry Farm, Box T, Lancaster, Missouri. 10-12

TOM BARRON'S ENGLISH Single Comb White Leghorn cockerels, pullets and yearling hens for sale, bred from stock with high egg records for generations. We trapnest every layer every day in the year. Your money back and we pay express charges both ways if they fail to satisfy you. Write for prices and description. Bear Den Poultry Farm, Wheeler, Ill. 9-11

S. C. WHITE LEGHORNS—Large sized, 295-egg record. Eggs, \$2 per 15, \$7 per 100, \$12 per 200. Chicks, 20c each. Cockerels, \$3, \$5 and \$10 each. Prepaid. Mrs. E. R. Dees, Waltonville, Ill. 8

VINEWOOD FARM SINGLE Comb White Leghorns—Pullets, cockerels and breeders. Beautiful sturdy stock. Line up for 1919 catalogue. Rose Belle Blasier, Highland Park, Ill. 11-1

SINGLE COMB WHITE Leghorns—Barron-American bred. Fine, vigorous, farm ranged cockerels. Bred from pedigreed, trapnested, heavy egg-producing parents. Prices moderate according to number. M. M. Jacobs, Fairbury, Ill. Dept. A. 11-1

TOM BARRON S. C. White Leghorns—Breeding cockerels for sale, large, vigorous birds, satisfaction guaranteed. Seneca Fancy Table Egg Farm, Tiffin, Ohio. 11-1

PURE BARRON LEGHORN cockerels with pedigrees from 240 to 284. Large early hatched birds, full of life and vitality. We have several hundred to choose from and will guarantee to please you. Riverside Poultry Farm, Cambridge Springs, Pa. 11-1

AUSTRALIAN LEGHORNS—World's record layers for thirty years. The White Ranch, direct importers, South Haven, Mich. 11-1

SINGLE COMB WHITE LEGHORNS—Young's. Low-tailed pullets, cockerels, \$3. Meadow Farm, Coulterville, Ill. 12

BARRON'S SINGLE COMB White Leghorn cockerels, April and May hatched birds, \$3 to \$5. We know the sire and dam of every male we offer for sale. All reared from high yielding, early maturing females, trapnested from their first day of laying and sired by males from high yielding dams. F. W. James, Waukegan, Ill. 12

FOR SALE—A FEW choice Single Comb White Leghorn cockerels, \$5. Satisfaction guaranteed. Chas. Koller, Bryan, Ohio. 12

CHOICE S. C. WHITE Leghorn cockerels, Young's strain. Large, healthy and vigorous birds, \$3.50 each. Satisfaction guaranteed. O. P. Williams, Route 2, Sedgwick, Kas. 12-2

QUEENSBURY STRAIN (Barron foundation) S. C. White Leghorn cockerels. Early hatched. Trapnested stock. Vigorous males that will breed profitable daughters. \$5 up. Write for particulars today. Queensbury Farms, 211 N. Main St., Toms River, N. J. 12-2

WHITE LEGHORN COCKERELS—Winners at Cincinnati. Reasonable. 253-egg strain. Woodford Poultry Farm, Madisonville, Cincinnati, O. 12-2

S. C. W. LEGHORN cockerels of fine quality. Also Toulouse geese. Prices reasonable if taken soon. Florence Gunderson, Route 4, Box 39, Blanchardville, Wis. 12

"ENGLISH EGG FARM" 300-egg strain S. C. White Leghorns, early hatched pedigreed cockerels, \$3, \$4, \$5 and up. Booking orders for eggs, 15 cents each. Fred Havig, Route 2A, Osage, Iowa. 12

FOR SALE—WHITE Leghorn yearling hens, exceptional value, \$1.50 each. Cockerels, \$2.50 to \$5 each. Must satisfy or no sale. States Restaurant Poultry, 97th St. and Western Ave., Chicago, Ill. 12-2

EGGS \$1 DOZEN—Read, plan for spring now while the snow flies. I have a message for you in my advance spring Leghorn literature that will sure interest you. Do not fail to write for your copy now. Dr. Prudhomme, Box 9, Thurmont, Md. 12-2

FROM WORLD'S CHAMPION layers—Direct imported from Tom Barron of England. Pen of pullets raised by me from above laid 1,015 eggs in contest just ended at Leavenworth. One pullet laid 31 eggs in March. Full sister hens and cocks and young stock for sale at reduced prices until January 1. My records show I have the goods you want. Cherrycroft Poultry Farm, Omaha, Neb. 12

R. C. WHITE LEGHORNS

ROSE COMB WHITE Leghorns—Grand cockerels, bred from our 1st prize winners Chicago, New York, Ohio and Illinois State Fairs, \$2.50 up. Louis Perry, Clay, N. Y. 12-2

FANCY ROSE COMB White Leghorn cocks and cockerels for sale. Bred from my Chicago Coliseum winners. George Rigler, Bentonsport, Iowa. 11-1

R. C. BROWN LEGHORNS

KULP'S 242 STRAIN Rose Comb Brown Leghorns—March and April cockerels, \$2, \$3 and \$5 each. Mrs. M. N. Smith, Packwood, Iowa. 10-1

80 ROSE COMB BROWN Leghorn cockerels for sale. Also year-old hens and pullets. J. W. Cook, Bluffton, Ind., R. 7. 12-2

COCKERELS—MOTHER'S RECORD 254. Eight and ten dollars each. Catalog. W. W. Kulp, Box 70, Pottstown, Pa. 12

S. C. BROWN LEGHORNS

WERNER'S QUALITY S. C. Brown Leghorns—200 April chicks for sale. Write for prices. Wm. B. Werner, Box K, Winamac, Ind. 11-1

S. C. BROWN LEGHORNS—Choice breeding and exhibition stock for sale. Winners and layers; both lines. Geo. L. Hornbrook, Upland Poultry Farm, Decatur, Ill. 11-2

FIRST SINGLE COMB Brown Leghorn cockerel, Illinois State Fair, 1913. 200 hens, \$16 dozen. Cocks, cockerels, \$1.50; red color, \$3; 4-5 point comb, \$5. Murl Edwards, Rockbridge, Ill. 10-12

LARGE 266-EGG line cockerel and females. Catalog. W. W. Kulp, Box 70, Pottstown, Pa. 12-2

BUFF LEGHORNS

S. C. BUFF LEGHORNS—Business breed, 20 years. Prolific layers. Hens, pullets, cocks, cockerels. Elmwood Poultry Yards, Mayville, N. Y. 12-1

EGG-BRED BUFF LEGHORNS—Single comb. Winners best shows. Leaders laying contest. 200 grand birds. Lea Munger, De Kalb, Ill. 12-1

BABY CHICKS from direct Heasley strain, heavy winter layers, 50c each; \$7 per 15. Hatching eggs, \$3 per 15. Booking orders now. Neva Smith, Fisher, Ill. 12-2

S. C. BUFF LEGHORNS for sale—Guaranteed to please. Prices reasonable. P. M. Chapman, Alma Center, Wis. 12

PITT'S SINGLE COMB Buff Leghorns—Won in six big shows this fall. Stock from Madison Square Garden winners. W. W. Pitts, Lewisburg, Tenn. 11-1

S. C. BUFF LEGHORNS—27 years. 25 choice cockerels for sale, also trios, pairs, pens. Quality and price right. Jno. Quincy Dawson, Coshocton, Ohio. 9-3

BUSINESS BEAUTY STRAIN—Genuine business beauties. Hen-hatched from large white eggs from mature, hardy, well marked, prolific layers. Outbred, pedigreed, farm raised. Both combs. Catalog. Joseph Benedict, Chevy Chase, Maryland. 10-181f

SINGLE COMB BUFF LEGHORNS—Pullets, year-old hens, cockerels. Write for circular of prices. Eli Risenberger, Box 26, Tiffin, Ohio. 10-12

ROSE COMB BUFF LEGHORNS—Stock and eggs. Catalog. Howard J. Fisk, Falconer, N. Y. 3-18-1yr

BLACK LEGHORNS

BLACK LEGHORNS of quality winners at leading shows, stock for sale. Scott Long, Carey, Ohio. 12-1

BLACK LEGHORN COCKERELS for sale—Backed up by seventeen years of careful breeding. Milo L. Myers, Marysville, Ohio. 11-1

S. C. BLACK LEGHORN cockerels—Fancy stock, \$2 to \$5. Perry Vail, Garden Grove, Iowa. 11

BLACK MINORCAS

S. C. BLACK MINORCAS—Pullets \$2.50; cockerels \$3. John Hass, Bettendorf, Iowa. 12

WRITE EDWIN F. SMITH, Stockton, O., for high class Single Comb Black Minorca cocks, cockerels and hens. 12

SINGLE-COMB Black Minorcas, producers of large white eggs. Few nice pullets for sale, \$2 each, good size. W. W. Gardner, Scottsville, Ky. 12

ROSE COMB BLACK Minorca cockerels from hens with high egg records. Geo. Konrad, Waukesha, Wis. 11-1

ROSE COMB BLACK Minorcas. Exhibition and utility stock, and eggs for hatching at all times. Send for our large catalog. G. A. Clark, Seymour, Ind. 6-17-lyr

WINNERS AT PANAMA and official 200-egg strain, National egg-laying contest, Missouri, up to 272. H. A. Kuhtz, Burlington, Wis. 2-18-lyr

BUFF MINORCAS

BUFF MINORCA COCKERELS—\$2.50 apiece. Do not wait until spring and be disappointed on account of being sold out, as you were this spring. Fred P. Dietz, Grocer, Mt. Vernon, Ind. 10-12

BUFF MINORCAS—See display ad page 975. Walhalla Poultry Farm. 3-18-1f

196-238-EGG EXHIBITION Buff Minorcas. Cockerels. Book spring orders now. W. R. Mortimer, Los Gatos, Cal. 12

WHITE MINORCAS

SINGLE COMB WHITE Minorca cockerels—19 years a White Minorca breeder. State what you want. Harry Leibold, Delaware, Ohio. 10-12

ROSE AND SINGLE COMB White Minorcas—America's best. A few choice cockerels and pullets. Thos. Brogden, Rush Lake, Wis. 11-1

SINGLE COMB WHITE Minorca cockerels—Extra quality, \$3 each. Fred C. Hacke, Lone Tree, Iowa. 11-1

MINORCAS—SEVERAL VARIETIES

S. C. BUFF and White Minorcas—The largest of the Mediterranean or egg breeds. Eggs \$3 and \$5 per 15. L. E. Hodges, Kingsville, Texas. 12-2

RHODE ISLAND REDS

R. C. RED COCKERELS ready to ship from first prize stock at leading shows and fairs. Large, vigorous birds weighing 8 lbs. From selected winter layers. At low prices considering their quality, \$5 and \$10 each. Roman Muskat, R. 1, Black Earth, Wis. 12

SINGLE COMB REDS—Big, dark red cockerels, \$3, \$5. Yearling cocks, fine breeder, \$10. Heavy laying strain, show and utility. Prize winners where shown. Eggs for hatching. Scarborough, Hillsboro, Ohio. 12

DARK RED R. C. COCKERELS—\$3 and \$5. Good stock. Cora Bendler, Findlay, Ill. 12-2

S. C. RED COCKERELS—(Vibert 200 egg strain). Bred for egg-laying contests. Even colored, Red, stocky built, weighing 6½ to 9 lbs., at \$3 and \$10. Kiel Bros., Station L, Cincinnati, O. 12

S. C. REDS—25 big husky cockerels, dark rich red, red undercolor without smut or white, \$5 each while they last. See ad page 990. Sunnyfields Farm, Wallingford, Conn. 10-12

HEAVY BONED DARK RED rose comb cockerels. Farm raised. Fine laying strain. Satisfaction guaranteed. Mrs. C. E. Schlots, Elmwood, Ill. 12

ROSE COMB RHODE ISLAND REDS—1919 mating list now ready. Pens headed by sons of Madison Square, Boston and Chicago winners. Eggs \$3 and \$5 for 15. These matings will produce prize winners. Geo. Clausing, Delaware, Ohio. 12-2

SINGLE COMB RED COCKERELS. C. P. Gundlack, Lincoln, Ill. 12-2

SINGLE COMB RHODE ISLAND Reds from prize winners, heavy layers. Pens, cockerels and pullets. Eggs in season. Prices right. Gordon Nichols, 215 7th St., S. W., Mason City, Iowa. 12

SINGLE COMB RED pullets and cockerels at \$2.50 each. Hazel Eaton, Ottawa, Ill. 12

SPECIAL NOVEMBER SALE of Perry's Single Comb Red cockerels—200 quality Reds at \$3 each. Order from this ad. Write for prices on real high-class breeding stock. Freed Perry, Ottawa, Ill. 12-1

SINGLE COMB RHODE ISLAND Red cockerels for sale. Scranton strain, \$2.50 to \$5 each. Mrs. F. M. Robinson, Metamora, Ill. 11-1

ONE HUNDRED MARCH and April hatched S. C. Red cockerels, weighing 5 to 7 pounds, \$3 and \$4. Satisfaction guaranteed. Mrs. J. S. Mitchell, Mason City, Ill. Box 152. 11-12

DARK RED SINGLE Comb Reds, heavy boned, good scoring. Guaranteed satisfactory. Lela Osterfors, Hedrick, Iowa. 11-1

SINGLE COMB REDS—Large, dark red cockerels and pullets of high quality. Henry R. Snapp, Greeneville, Tenn. 10-12

DO YOU WANT a Single Comb Red Cockerel, bred from hens with trapnest records of over 200 eggs, and father from a 221 official record hen? Have large bone and good color. Parents came direct from Pennsylvania Poultry Farm. Prices \$3, \$4 and \$5 each, according to size. Order early and get a choice selection. Federal Poultry Farm, Federalsburg, Md. 12

200-EGG LINE big dark cockerels and females. Eggs. Catalog. /W. W. Kulp, Box 70, Pottstown, Pa. 12-2

RHODE ISLAND WHITES

"WHITE QUEEN" Rhode Island Whites—Rose and Single Combs, heavy layers, utility, breeding, exhibition; cockerels, pullets, hens; \$3, \$5, \$7.50 and up; cocks \$7.50 and \$10. Fred Havig, Route 22A, Osage, Iowa. 12

THE GREAT RHODE ISLAND White farm—Rose and Single Comb. Stock \$2.50 each; \$7.50 per trio; \$12.50 per pen. Henry Eichelman, Waterloo, Ill. 12-2

BLACK ORPINGTONS

BLACK ORPINGTONS—Old and young stock. Males and females. Fred Seas, Orrville, Ohio. 12

BLACK ORPINGTONS for sale—Show birds. Utility, excellent layers. Satisfaction guaranteed. Write P. M. Chapman, Alma Center, Wis. 12

BLUE ORPINGTONS

BLUE ORPINGTON STOCK for sale—Pullets \$5 and cockerels \$10. Jess Jessen, Strawberry Point, Iowa. 11-1

BUFF ORPINGTONS

BUFF ORPINGTONS—Martz strain, young and old. \$2 to \$4 each. G. A. Birdsley, St. Johns, Mich. 12

BUFF ORPINGTONS—Fine cockerels \$1.50 if taken soon. Laura Killebrew, Durham, Mo. 12-2

S. C. BUFF ORPINGTONS—Cook strain direct; cockerels \$3 and \$5. Mrs. J. R. Cummings, Springfield, Ill., R. R. 1. 12

BUFF ORPINGTON early hatched pullets, \$3 each. Majestic strain. F. A. Kaup, Glen Ellyn, Ill. 11-1

WHITE ORPINGTONS

WHITE ORPINGTONS—Cocks, hens, cockerels, pullets. Show and utility. See ad, page 990. Sunnyfields Farm, Wallingford, Conn. 10-12

SINGLE COMB WHITE Orpington cockerels, \$2.50 each. A. H. Seyer, Manson, Iowa. 12

WHITE ORPINGTONS—Aldrich and "S. B." strains. Show and utility stock. Males from 224-egg strain. Eggs in season. S. B. Brennan, 3140 Irving Ave., Berwyn, Ill. 12-2

FIRST PRIZE HEN at Janesville for sale. Roy Bowman, Albany, Wis. 12-1

S. C. WHITE ORPINGTONS—Winners Tri-cities and Iowa State shows. Can spare a few cockerels, pullets and hens; satisfaction guaranteed. L. H. De Frates, Fancier and Breeder, R. R. 1, Davenport, Iowa. 12-2

LANG'S WHITE ORPINGTONS—Cockerels to improve blood lines or win for you. Kind of birds everyone is looking for. Also one good yearling cock. Special prices. Write Fred C. Lang, 1006 Nuttman Ave., Fort Wayne, Ind. 12

ROSE COMB WHITE ORPINGTON cockerels—\$2 and \$3 each. Mrs. Henry Peterson, Wallingford, Iowa. 12-2

IF YOU WANT a big bargain in Standard, bred-to-lay White Orpingtons—cocks, cockerels, hens and pullets—you will write me before ordering. State what you want and I will save you money. Supply limited, so quick action necessary. E. F. Alden, Linden and Willow Sts., Winnetka, Ill. 12

PARKER'S TRAPNESTED Pedigreed 200-egg White Orpingtons. 300 hens, pullets and cockerels; also 319-egg cock. Catalog. J. S. Parker, Route 4-J, Plain City, Ohio. 10-12

ORPINGTONS—SEVERAL VARIETIES

LONG'S ORPINGTONS—Buff Black White. Males and females that will win and breed true. Eggs in season. Prices reasonable. Fifteen years successful breeding. Satisfaction guaranteed. Edw. M. Long, Osceola, Indiana. 12-2

ORPINGTONS BUFF, WHITE and Black—Cheap. Bare Poultry Co., Box 909, Hampton, Iowa. 11-1

BARRED PLYMOUTH ROCKS

BARRED PLYMOUTH ROCK cockerels sired by the best son of the 2d prize cock at the 1918 Indianapolis show; \$5, \$7.50 and \$10 each. Thompson strain. B. L. Evans, Spencer, Ind. 12-2

FOR SALE—THOROBRED RINGLET Barred Plymouth Rock cockerels, \$4. April pullets \$2.50. Our home just destroyed by fire, have no place to keep them the reason for these prices. Send money order for first choice. Henry A. Munson, R. 4, Minooka, Ill. 12

RINGLET BARRED ROCK cockerels—6 to 8½ lbs. each, from direct stock. Both matings, farm raised, \$2.75 to \$5 each. V. I. Hostetler, Nappaehe, Ind. 12-2

BARRED ROCKS—RINGLET strain. Choice cockerels and exhibition stock for sale. 1st and 2d at Oconomowoc and Milwaukee auditorium poultry show in 1918. All stock guaranteed, if not satisfactory can be returned at our expense. Ed. Martin, Oconomowoc, Wis. 12-1

RINGLET BARRED ROCKS—Cocks, cockerels, hens and pullets. Large, vigorous birds with great size and quality at prices any one can afford to pay for birds of this noted strain. Mrs. J. M. Kemp, Kenney, Ill. 12-2

500 BARRED ROCKS—Cockerels at bargain prices to make room, \$2.50 to \$3.50 each. This stock is from the best egg-laying strains, produced by years of careful matings. He-No-Ge Farms, Minooka, Ill., R. D. 4. 12

WEBBS BLUE WAVE BARRED ROCKS win first prize cock at Chicago, first prize at St. Louis, Kansas City, Illinois State and Memphis. I am the breeder that actually sells winners that win. 50 show birds now ready. 300 fine breeders at \$3 to \$5. (Eggs \$5.) E. A. Webb, Benton, Ill. 12-2

I HAVE A PEN of high class Ringlet Barred Rocks that I will exchange for Regal White Wyandotte pullets. Write me. J. J. Schweska, Canton, Minn. 12

E. B. THOMPSON'S "RINGLETS" direct. Extra choice cockerels, females; big, vigorous stock, bred from winners; best New York winning blood from proven breeders. Have spared neither pains nor money. William Huckle, Waverly, N. Y. 11-1

BRED-TO-LAY BARRED ROCKS—Parks noted strain. Fine, big cockerels, \$5 each, 3 for \$12. Hens and pullets, same price. Satisfaction guaranteed or money back. Mallard ducks, \$4 per pair. Mrs. E. Glabe, Chatsworth, Ill. 11-1

BRED-TO-LAY BARRED ROCKS exclusively—Parks' strain direct. Heavy winter laying stock. Beautiful, large boned, vigorous cockerels bred from best egg-producing blood lines, which will impress the lay on their offspring, \$5, \$6 and \$7 each. W. G. Meredith, Danvers, Ill. 10-12

BUFF PLYMOUTH ROCKS

BUFF ROCKS EXCLUSIVELY—Early hatched, even colored cockerels from select prize winning stock, \$3. Mrs. H. T. Price, Elkhorn, Wis., Route 5. 12-1

BUFF PLYMOUTH ROCK cockerels—\$3 to \$7 each. Mrs. Lucy B. Eminger, Gibson City, Ill. 12-2

WELL-BRED BUFF Rock cockerels, \$3. A. D. Egl, Kouts, Ind. 12

BUFF ROCK COCKERELS \$4 up. 1 cock \$5. W. E. Russell, Wautoma, Wis. 12

COLUMBIAN PLYMOUTH ROCKS

COLUMBIAN ROCKS—Large, good color, excellent layers. Cockerels and hens for sale. Oren Anthony, Louisville, Ohio. 12-5

PARTRIDGE PLYMOUTH ROCKS

PARTRIDGE ROCKS—Cockerels for sale at \$3 each. Cock bird \$8. Rose Comb Rhode Island Red cockerels at \$3 each. Melvin Gilbertson, Albany, Wis. 12-2

CHOICE PARTRIDGE ROCK cockerels and pullets for sale. Pullets \$2.50 up; cockerels \$3 up. Ray Flinders, Ferguson, Ia. 12-1

IF YOU ARE LOOKING for Partridge Rocks write Frank Neudecker, Sleepy Eye, Minn. 12-2

"RIVERDALE"—PARTRIDGE Plymouth Rocks. Stock for sale, old and young. R. F. Schuler, Roann, Ind. 12-2

AMERICA'S PROVEN CHAMPION Partridge Rocks and Bronze Turkeys. See our adv. on page 999. 5-15-1f

OWN-LAND FARM'S Partridge Rocks—Boston and New York State Fair winners 1918. Circulars. South Hammond, N. Y. 11-1

WHITE PLYMOUTH ROCKS

WHITE ROCKS—Twenty May pullets, \$2 each; 4 April cockerels \$4 each. Poorman's 200-egg strain, cockerels direct. Farm raised. Gladys Caps, Bluffton, Ind. Route 6. 12

WHITE ROCK COCKERELS, Fishel strain, April hatched. Large boned. Mrs. Peter Johnson, Franklin St., Decora, Ia. 12

WHITE ROCKS—Cockerels and pullets. H. J. Collman, Milan, Ohio. 12-1

WHITE ROCK COCKERELS—From trapped, 200-egg strain. Prices right. Hillview Poultry Yards, Box A, Batesville, Ind. 12-2

WHITE PLYMOUTH ROCK COCKERELS—\$2, \$3 and \$5 each. F. L. Hooper, Kendallville, Ind. 12

WHITE ROCKS—Owen Farms strain, few pullets, cockerels, trios; highest quality, few show prospects. Frank E. Palmer, Sparta, Ill. 12

BRED-TO-LAY WHITE ROCK pullets, hens, large boned, vigorous cocks and cockerels. Heavy winter laying stock. \$3, \$4, \$5. Hatching eggs \$2.50. J. Earl Hoover, Staunton, Va. 12-2

WHITE ROCKS—Farm raised exhibition and utility stock. Southern winners. A. H. Davidson, Route 7, Ft. Worth, Texas. 10-13

NUZUM'S WHITE PLYMOUTH Rocks are good winter layers. Cockerels for sale. Monte Nuzum, Anderson, Ind. 10-12

WHITE ROCKS—Hens and cockerels, \$2; pullets, \$1.50; until January 1. Stamps for inquiry. Mrs. L. L. Hunter, Blakesburg, Iowa. 12

BUFF WYANDOTTES

BUFF WYANDOTTES—Iowa's oldest breeder. Better birds for less money. Coffin & Sons, Waverly, Iowa. 12

EGG-BRED EXHIBITION Buff Wyandottes. National Club show winners. 200 grand birds. Lea Munger, DeKalb, Ill. 12-1

BUFF WYANDOTTES—Sandborn strain, wonderful winter layers, winners. Cockerels \$3, \$5; pens \$10, \$15. Ben Threlkeld, Ewing, Ill. 11-2

COLUMBIAN WYANDOTTES

VICTORY SALE—Cocks, hens, cockerels, pullets. Pedigreed stock, winners. Write wants. Ralph Woodward, Box J, Grafton, Mass. 12-2

COLUMBIAN WYANDOTTES—Winning strain, thoroughbred. Cockerels \$5 up. Limited matings of trios and pens. No eggs or chicks. C. A. Mock, LeMars, Ia. 12-2

COLUMBIAN WYANDOTTES—Superior strain. Madison Square Garden, Boston winners. Choice breeding cockerels, from our heavy laying strain. One of my pullets laid 194 eggs in ten months, at American egg-laying contest. Gilbert Poultry Farm, Whittier Road, Haverhill, Mass. 12

GOLDEN WYANDOTTES

QUALITY GOLDEN WYANDOTTES—Cockerels. Line bred for years, from stock scoring up to 94 points, and egg records to 231. Stock and eggs in season. John W. Faber, Okawville, Ill. 12-2

HUNTER'S GOLDEN Wyandottes are winners at Madison Square Garden and Pittsburgh. Stock reasonable. S. J. Hunter, Washington, R. 9, Pa. 12-1

TWO GOLDEN WYANDOTTE cocks and two cockerels for sale. W. F. Burkitt, Benton, Ill. 12

GOLDEN WYANDOTTES—Bred from state show winners. Cockerels \$3 and \$5. Pullets \$2.50. Nick Till, Independence, Iowa. 11-1

PARTRIDGE WYANDOTTES

PARTRIDGE WYANDOTTES—\$2.50 up. Coffin & Sons, Waverly, Iowa. 12

PARTRIDGE WYANDOTTES—A few fine cockerels for sale. Bred from heavy layers. B. F. Russell, Elkhart, Ind. 12

PARTRIDGE WYANDOTTES—Premier and mahogany strains. Cockerels \$5 and \$10; pens \$15. Eggs in season. Fred Page, Benton, Ill. 12-2

PARTRIDGE WYANDOTTES—Fine cockerels, \$2.50; trio, \$7; pen, \$10. E. H. Casey, Ewing, Ill. 10-12

SILVER WYANDOTTES

CHOICE SILVER WYANDOTTE hens for sale \$1.50. George Veitengruber, Millington, Mich. 12

FOR SILVER LACED Wyandottes, the kind that win and lay—address Helfrich Bros., Hammond, Ill., Piatt Co. 12-2

SILVER WYANDOTTE COCKERELS—From heavy laying trapnested hens, \$3 and \$5 each. Theodore Sonnemann, Watertown, Wis. 12

SILVER LACED WYANDOTTES—Limited number, fine cockerels from show winning stock. Tarbox and Breigel strain, \$3 and up. Guy Payne, R. 5, Benton, Ill. 11-1

WHITE WYANDOTTES

IF YOU WANT a big bargain in Standard White Wyandotte cockerels—from hens with egg records up to 293—you will write me at once. Satisfaction guaranteed. Edgar F. Alden, 352 Linden St., Winnetka, Ill. 12

WHITE WYANDOTTES—Beautiful birds at \$2.50 and \$4 apiece, old and young stock, fully matured layers and show birds. Satisfaction guaranteed. Fred Le Veque, Antigo, Wis. 12-2

REGALS DIRECT—A few White Wyandotte pullets for sale at \$2 each. One choice pen of eight pullets and a cockerel at \$30. Ivor Jones, Bourbon, Ill. 12

REGAL WHITE WYANDOTTE cockerels cheap. W. P. Hanley, Trenton, Mo. 12

WHITE WYANDOTTES—Fishel and Rudy strain. Cockerels \$2, pullets \$1.50. E. Hatton, Cooksville, Ill. 12

WHITE WYANDOTTES—Winners and layers. Choice utility hens and pullets \$2. Cocks and cockerels \$5. Satisfaction guaranteed. M. G. Wells, Sellersburg, Ind. 12

WHITE WYANDOTTE cockerels from Wisconsin State Fair winners, \$3 and up. Laurel Killips, R. 6, Waukesha, Wis. 12-2

WHITE WYANDOTTES—Poorman strain. Cockerels \$5; trios \$10. Merit makes them your safest investment. E. Sweet, Pierre, South Dakota. 12

WHITE WYANDOTTE HENS and cockerels that win, weigh and lay. Marion Curtis, Albion, Ill. 12-2

WHITE WYANDOTTE cockerels—Big, husky fellows at \$3 each. Frank Umstatt, LeRoy, Ill. 12-1

JOHN A. BRUHN, Homer, Ill., breeder of Ideal White Wyandottes. Nice cockerels \$5 and \$2.50 each; females \$2 each. Satisfaction guaranteed. 12-2

WHITE WYANDOTTES—Cockerels, hens, pullets, at \$2, \$3 and \$4 each. Show birds, \$5 each. Satisfaction guaranteed. A. J. Shannon, Route 6, Appleton, Wis. 10-12

PEARL WHITE—Stay White—White Wyandottes. Bred to lay and pay. Cockerels, pullets and hens. Single birds, pairs and pens. February hatched Barred Rocks—very fine. May hatched Reds. "Ye Quill and Appie Yards," F. Sanders, Ottawa, Ill. 11

IMPERIAL WHITE WYANDOTTES—Lay, win, weigh. Bred primarily for high production. Also Standardbred to win and produce quality. Five choice pedigreed cockerels, \$8 to \$15. Eggs in season. Dr. H. H. Clayton, Bluffton, Ind. 10-12

WHITE WYANDOTTES—Early cockerels and pullets. Beautiful form and finish. Guaranteed. Crest View Farm, Grand Chain, Ill. 10-12

WHITE WYANDOTTES—Vigorous, stay white, utility cockerels, extra large. \$3 and \$5 each. Exhibition quality for strong competition, \$10 and \$15. Purchase price and return express charges refunded if dissatisfied. J. F. Garrison, Mt. Vernon, Ill. 11

OWN-LAND FARM'S White Wyandottes (Regal-Dorcas). Hundreds satisfied customers. Circulars. South Hammond, New York. 11-1

IMPORTED, TOM BARRON White Wyandotte—Cockerels, hens, day-old chicks. Trap nested. Geo. Hynick, 322 East Grant Ave., Altoona, Pa. 11-1

WHITE WYANDOTTE STOCK—Good egg laying strain, stay white. Exhibition stock at right price. Satisfaction or money back. Write for prices. W. A. Ziegler, Mt. Victory, O. 11-1

SPECIAL OFFER OF Regal strain White Wyandottes, young and old. Lloyd Caldwell, Neoga, Ill. 11-1

WHITE WYANDOTTES—Chicago, St. Louis, Kansas City and Des Moines winners. Stock for sale. Earnest Massey, Mystic, Ia. 4-13-17.

MY WHITE WYANDOTTES and R. C. Reds win Omaha, Denver. \$3 up cockerels and pullets. Catalog. Baby Chix. Tempiedotte Farm, Lexington, Neb. 12-2

WYANDOTTES—SEVERAL VARIETIES

PARTRIDGE WYANDOTTES and Silver Penciled Wyandottes that are bred for shape and color. Sold on approval, Byron Schrubb, Urbana, Ohio. 12-2

WYANDOTTES—WHITE and Columbian. Hens, pullets, one cock bird. Fine breeding stock. A. O. Murray, Mazon, Ill. 12

WHITE AND PARTRIDGE Wyandottes—Cockerels, early hatched; eggs in season. Send for prices. L. C. Baese, Elsie, Mich. 12-2

ALL VARIETIES OF WYANDOTTES—Males and females, cheap. Bare Poultry Co., Box 909, Hampton, Iowa. 11-1

RED SUSSEX

RED SUSSEX for sale. Guaranteed to please. Sussex Yards, Alma Center, Wis. 12

SPANISH

WHITE FACED BLACK SPANISH—Winners at some of the largest shows in the country. J. R. Galloway, Elwood, Ind. 10-1

SEVERAL BREEDS

TOULOUSE EMBDEN AFRICAN geese, Golden Wyandotte cocks, S. C. Black Minorca cocks, hens; Black Leghorn cockerels; Black Sumatra cocks, cockerels; bronze turkeys. Lake Shore Poultry Farm, Oshkosh, Wis. 12

SACRIFICE SALE—S. C. Rich Red Rhode Island cockerels. 266-egg strain Brown Leghorn stock. Successful grain sprouter. Loretto Head, Elizabethtown, Ky., Rt. 3. 12

YOST FARM, Greenetown, Tenn., offers White Leghorns, White Rocks, Rhode Island Red cockerels and pullets, all select stock, with prices as low as high quality permits. 12

PARTRIDGE AND WHITE Wyandottes—Emden geese, Pekin ducks, bronze turkeys. Wm. H. Milward, Carrier 16, Madison, Wis. 12

BUY NOW—FULL blooded cockerels—Barred Rocks, Single Comb, Rhode Island Reds, Silver Campines. Eggs in season from above, also White Rocks and Hamburgs. Robert Devenoges, Manteno, Ill. 12

S. C. B. MINORCA cockerels—White runner ducks, Toulouse geese, priced right for quick sale. J. C. Loughton, Platteville, Wis. 12-2

FOR SALE—WHITE Langshan chickens and large Toulouse geese. Farm raised, reasonable. Eggs for hatching after March 15. John R. Shimm, Monmouth, Ill., R. 5. 12-2

FOR SALE—A few good White Plymouth Rock pullets, Poorman strain; also a few good S. C. White Leghorn pullets, Funk strain. All of these from trapnested stock with high egg records. To close them out quick will price them at \$3 each. Wm. H. Barnsfield, Lieutenant, 316 Main St., Evans-ton, Ill. 12

IF YOU WANT GOOD S. C. Anconas and Black Minorcas, I have them. Both birds and prices are right. Clarence W. Garnhart, Stillman Valley, Ill. 11-1

DUCKS

ROUEN DUCKS—Good size and color. Drakes \$2 and \$3 each. Ducks \$2. Mrs. Henry Peterson, Wallingford, Iowa. 12-2

PEKINS, ROUENS, CAYUGAS, Swedish Ayresburys. Willow Creek Duck Farm, Warsaw, Ind. 12

PEKIN DUCKS for sale. First prize winners Boston, Mass.; Waterville, Me.; Bangor, Me. C. E. Gray, Cedar Grove, Me. 12

FOR QUICK SALE—Mammoth Pekin ducks \$2.25; drakes \$2.50. Prize winners. A. H. Sever, Manson, Iowa. 12

MUSCOVY AND INDIAN Runners ducks—Send for price list. John Hass, Bettendorf, Iowa. 12

WILD MALLARD DUCKS—20 pairs of beautiful, strong, healthy birds for sale. Fine decoys. Send postcard for photo, etc. Wm. Stangle, Box 93, Camden, Ind. 11-1

DUCKS—ALL VARIETIES. Males and females, cheap. Bare Poultry Co., Box 909, Hampton, Iowa. 11-1

GEESE

FOR SALE—MAMMOTH Toulouse geese, the big kind; also one trio of good Brown China geese and a few large Embden ganders for sale. Geo. Relling, Burnt Prairie, Ill. 12

PRIZE WINNING WHITE Embden and large Toulouse geese. Prices reasonable. Marion Curtis, Albion, Ill. 12-2

PURE-BRED EMBDEN ganders \$4 each; Mammoth Buff ganders \$5 each. Mrs. Henry Peterson, Wallingford, Iowa. 12-2

MAMMOTH TOULOUSE and White Embden geese, weighing up to 25 pounds, \$5 and \$7 each. Alfred Hoffman, St. Charles, Ill. 12

IMPORTED TOULOUSE, Embden, African and Brown China geese. Maple Grove Farm, North Clymer, N. Y. 12-1

GEESE—MAMMOTH TOULOUSE, African, White China, Embden, Buffs, Ducks—Imperial Pekins, Rouens, Indian Runners, Muscovys, Buffs. Turkeys—Mammoth Bronze, White Holland, Bourbon Reds. Price reasonable. A. A. Ziemer, Austin, Minn. 11-2

WHITE CHINA GEESSE—\$8 per pair; \$12 per trio. Alma Eichelmann, Waterloo, Ill. 11-1

GEESE—AFRICAN, CHINA, Embden and Toulouse, cheap. Bare Poultry Co., Box 909, Hampton, Iowa. 11-1

NEW SEVILIAN 100 egg geese. Pure white stock. Welday, Seville, Ohio. 11-1

WHITE EMBDEN GANDERS—\$4 each. Sparling Sisters, Garden Grove, Iowa. 10-12

ALL VARIETIES OF GEESSE, bred from winners at Panama-Pacific and Madison Square Garden. All varieties of dux. Dawson Bros., Franksville, Wis. 9-1

DUCKS AND GEESSE

ALL VARIETIES DUCKS and geese. First prize winners, Wisconsin State Fair 1918. Lee Kyburz, Lake Beulah, Wis. 12-2

TWO OLD TOULOUSE geese, one gander, \$25. Mammoth trio Pekin ducks \$15; pens \$25. A. Moritz, Rahway, N. J. 11-1

TURKEYS

AMERICA'S LEADING WINNERS in Giant Bronze Turkeys and Partridge Plymouth Rocks. See our ad on page 999. 2-ft

LARGE JUNE HATCHED White Holland Toms. Price \$10, \$12.50 and \$15. L. L. Smith, Northboro, Iowa. 12-1

BREEDERS—PURE BRED Bourbon Red turkeys, Embden geese. Satisfaction guaranteed. O. J. Carbaugh, Beverly, Ill. 12

WHITE HOLLAND TURKEYS—1 year Toms \$10; hens \$5 each. Also 1 O. K. hatcher. Matt. Kock, Golconda, Ill. 12

BRONZE TURKEYS—Flock built up from best strains in America. Young stock sired by champion cockerel at Heart of America Show 1917. W. W. Day, Janesville, Wis. 12-1

GIANT BRONZE TURKEYS—San Francisco World's Fair stock, also other leading shows, \$7.50 to \$25. Scored stock. Ollie Shelton, Polo, Mo. 12-2

STANDARD BRED MAMMOTH Bronze turkeys sold on approval. Selected toms \$15; hens \$10. Money returned and express charges paid if not satisfactory. J. H. Steele, Manassas, Va. 12

MAMMOTH BRONZE TURKEYS—Bird Bros. "Goldbank" prize winning strain. Exceptionally fine stock. Toms \$10, \$15 and \$25. Pullets \$7 and \$10. Susie Oliver, Hickman Mills, Mo. 12

WHITE HOLLAND TURKEYS—Old and young stock for sale, large flock to select from. White African Guineas. Mrs. Millard Coffin, Farmington, Iowa. 12-2

GOLDBANK STRAIN—BEAUTIFULLY bronzed. Sired by second Boston tom 1918 and first tom Kansas City 1918. Furnish unrelated trios. Mrs. Hall Williams, Nelson, Mo. 12-2

CHOICE BOURBON RED turkeys—Red jacket strain. Madison Square quality. Fishel White Rock cockerels. G. W. Wilson, Trimble, Ill. 12-2

LARGE WHITE HOLLAND toms, \$7, \$10. Bur+ Funkhouser, Ridgeville Corners, O. 12

BOURBON RED TURKEYS—Good size and color. Hens \$5 and toms \$7 each. Mrs. Henry Peterson, Wallingford, Iowa. 12-2

MAMMOTH BRONZE TURKEYS—Toms \$6. Don Marshall, Route 8, Defiance, O. 11-12

BOURBON RED TURKEYS—Dark red, large bone, \$8, \$10 and \$12; trios unrelated \$25. Single Comb Reds \$5 and \$10; trios \$10 and \$20. Mrs. Frank Spurling, Forest Park, Ill. 12-2

BLACK TURKEY TOMS—\$8 each. H. C. Heyse, Whitewater, Wis. 12

MAMMOTH BRONZE UNRELATED trios—Pullets, year-old hens, toms, young and year-old, utility and show. Write for circular. Eli Rosenberger, R. 9, Tiffin, O. 12-3

WE SOLD FIVE champion bronze turkeys last March for \$150; one tom brought \$500. Have 300 grand birds same breeding, sired by sons of my 52-lb. champion tom; \$7.50 to \$25 each. Ike Hudnalls, Milan, Mo. 12-2

GIANT STRAIN BRONZE turkeys—Bred direct from World's Fair, Kansas City and Missouri State Show prize winners. Won 90 percent of all first awards. Also state special over all varieties for best display. A. D. Walker, Memphis, Mo. 12-2

BOURBON RED TURKEYS—Ours excel in size, color and markings. Tom \$7, hens \$5. Maud Coons, Queen City, Mo. 11-1

BOURBON RED TURKEYS—Winners at Detroit and Michigan State Fair. Thos. G. Callaghan, Fenton, Mich. 11-2

BAUMAN'S BEAUTIFUL BOURBONS—America's record layers, blue ribbon winners, World's largest shows. Tom (\$15-18 quality), \$10, \$12.50, if taken by Dec. 15. Exhibition pullets \$10 each, also a few high class Dark Cornish hens. Mrs. M. F. Bauman, Clayton, Ill. 11

BOURBON RED TURKEYS, poultry and pets. Literature and prices, 10 cents. Funneth Poultry Yards, Belmont, Ia. 11-1

FOR SALE—BRONZE turkey toms and hens, \$10 each. Money returned if all are sold. Don't wait till express companies are burdened with Xmas. Order now and be safe. Aaron J. Felthouse, R. D. No. 2, Goshen, Ind. 11-12

GIANT STRAIN, WHITE Holland turkeys. Gentle, roost, lay and sit in the barn, no hunting nests. Buy from prize winning stock. Forty-pound tom, \$30. Young toms, \$15, \$20 and \$25. Henry Montgomery, Troy, Kansas. 11-1

AMERICA'S BEST Breeding Giant Bronze Turkeys. See our advertisement on page 999. 2-15-ft

GUINEAS

PEARL GUINEAS—\$1 each. John Hass, Bettendorf, Iowa. 12

WHITE AFRICAN GUINEAS—\$1.50 each, \$2.75 pair, \$4.25 trios. Honey Creek Poultry Farm, Kahoka, Mo. 12-2

WHITE AFRICAN GUINEAS—\$1.75 pair. Geese also reasonable. Honest Deal Poultry, Eitzen, Minn. 12

GUINEAS—LAVENDER, \$2 each. Pearl, \$1. H. C. Heyse, Whitewater, Wis. 12-1

WHITE AFRICAN GUINEAS—\$4 pair, Pearl \$3 pair. Bare Poultry Co., Box 901, Hampton, Iowa. 11-1

WHITE AFRICAN GUINEAS, \$1.50 each; \$2.50 pair; \$4 trio. Julia Moore, Kahoka, Mo. 12-2

GUINEA PIGS

GUINEA PIGS—For pets and profit. We buy your young stock. Send stamp for particulars. Easy and profitable to raise. Cavy Sales Co., Springfield, Ohio. 12-2

GOATS

FOR SALE—MILCH goats on hand always. Joe Stewart, 3020 Ezekiel Ave., Zion City, Ill. 12

PIGEONS

ALDEN'S FAMOUS CARNEAUX are big money makers. World's best squab producers—at prices that will surprise you. Mated pairs in yellow, red and splashed. Young stock at bargain prices. Write me before ordering elsewhere—it's to your best interest. Satisfaction guaranteed. Ed. Alden, 352 Linden St., Winetka, Ill. 12

RACING PIGEONS—The American Army kind. Vigorous, healthy, young birds. Extra hens \$1.50 each. Solace Lofts, Elma, N. Y. 12

I OFFER GUARANTEED MATED Homers in any quantity at \$1 per pair. Beautiful White Homers, \$1.50 pair. Squab companies challenged to produce better stock at twice this price. Get my prices on Runts, Carneaux, Maltese hens and save dollars. Squab Manual, 25c. Charles A. Gilbert, 2210 Almond St., Philadelphia, Pa. 7

LARGE RED CARNEAUX Pigeons, \$2 pair. Mated. Woodford Poultry Farm, Madisonville, Cincinnati, Ohio. 10-12

WANTED—5,000 HOMER or common pigeons. Pay at least 25c pair. Live Rabbits wanted. Going Light, Canker Cure 25c. D. Gilbert, 1128 Palmer St., Philadelphia, Pa. 8

RABBITS AND HARES

PEDIGREE BELGIAN HARES—Quality guaranteed. Jas. W. Houck, Tiffin, O. 12-2

FOR SALE—BELGIAN and New Zealand Reds. Healthy stock. Aug. Rohde, Ann Arbor, Mich. 12

FOR SALE—NEW ZEALANDS, Checkered Giants and Flemish. A. Kuchemann, Galena, Ill. 12-2

TWENTY REFUS RED Utility Belgian Does, heavy breeding stock, 10 months old, good color, \$3 each. Dangers & Co., Sleepy Eye, Minn. 12-1

PEDIGREED BELGIAN HARES, \$2 up. 64-page book on rabbits, 25c. Woodford Poultry Farm, Madisonville, Cincinnati, 10-12

RAISE BELGIAN HARES for me—I furnish all grades of stock at from \$2.50 up, and buy all you raise at 30 to 60 cents per pound, live weight. My famous instruction booklet and full particulars, 10c. None free. Frank G. Cross, 6433 Ridge, St. Louis, Mo. 11-17-ft

PHEASANTS

BEAUTIFUL, FULL-PLUMAGE Golden Pheasants. John M. Datz, Irwin, Pa. 12

PET STOCK

BEAUTIFUL ANGORA CATS and kittens, \$5 up. Stamp for reply. Bay View Farm, North Haven, Maine. 12-2

DOGS

FOX TERRIERS—ANY AGE. Some bred females. Best rat, pet or watchdogs. T. H. Kaldenberg, Pella, Iowa. 10-12

REGISTERED SCOTCH COLLIE puppies. Leghorn pullets. Catalog, stamp. Falling Poultry Farm, La Fargeville, N. Y. 10-12

PEDIGREED COLLIE PUPS. Males, \$10; females, \$5; London Hope at stud, fee \$10. Plummer McCullough, Mercer, Pa. 9-15ft

FOX TERRIERS—Useful, handsome, males, females. Harding's Kennels, Detroit, Minnesota. 11-12

INCUBATORS—BROODERS—POULTRY SUPPLIES

FOR SALE—3,000-Egg Candee incubator. Write E. G. Carl, Shreve, Ohio. 12-1

FOR SALE—CANDEE mammoth incubator, three thousand egg size; nearly new; good hatcher. Gas. C. H. D. Summers, Gallipolis, Ohio. 12

BARGAINS—CYPHERS incubator (144); Cyphers coal-burning colony hover; cutters, trapnests. H. Thayer, 4449 Sidney Ave., Chicago, Ill. 12-2

MANN'S NO. 12 power bone cutter. New. A bargain at \$28. P. J. Wirtz, Ellinwood, Kans. 12-1

FOR SALE—A NUMBER of Cyphers, Prairie State and Robert Essex 390-egg incubators, one Cyphers 144-egg incubator and one International Sanitary hover. All machines in perfect running order. John Cassidy, Rockville Centre, New York. 12-1

FOR SALE—WE ARE dissolving partnership and are offering: Six sections Candee incubators; one Simplex brooder, 1500-chick size; five Simplex self-feeders; shipping boxes for hatching eggs, 39—100-egg size, 47—50-egg size. These articles are all in good condition and prices are right. Write Pendrey & Vance, R. 1, Wilmington, O. 11-12

FOR SALE—2 65-egg Buckeye hot water incubators, complete; never been used, as I changed my plans after purchasing. Cost \$10.50 each. Will sacrifice for \$8 each; cash, no trade; make remittance payable to American Poultry Journal. Address R., care American Poultry Journal, Chicago, Ill.

WANTED—PRAIRIE STATE, Mammoth, and Cyphers incubators; and coal burning brooders. Flora Boyer, Darlington, Ind. 11-1

FOR SALE—A CYPHERS Mammoth Incubator, ten section, 4,000-egg capacity, used four months, in excellent condition. Must sell for war reasons. Address B. A. White, Mt. Carmel, Ill., for particulars. 11-1

SAVE MONEY ON THESE—One 2½ h.p. Fairbanks gasoline engine, Mann & Humphrey hand-power bone cutters, clover cutter, 240 and 300-egg Buckeye, 400-egg Prairie State incubators. One-third off; act quick. Dr. Frudhomme, Box A, Thurmont, Md. 12

512 **EXHIBITION** coops for sale at a bargain. A. Doermann, Blue Island, Ill. 12

FOR SALE—Slightly used Candee and Hall incubators. Specify capacity wanted. One 4,000-egg new Cyphers Mammoth, never been used. A big bargain. Also a number of 390-egg Cyphers and Prairie State; good condition. Attractive prices for quick sale. Watson Mfg. Co., 2803 Ann St., Lancaster, Pa. 12

CANARIES

CANARIES—Males and females. Singers. Guaranteed. \$6 up. Eugene Cooper, Yale, Michigan. 12

IT PAYS TO RAISE Canaries—Big demand; start at home; spare time. We show you how; very little capital necessary; high grade songsters; breeders furnished. Monarch Specialty Co., Evanston, Ill. 9-12

SILVER BLACK FOXES

CHOICE UNRELATED domesticated true Northeastern Canada Silver Black breeding foxes, in pairs. Reid Bros., Bothwell, Ontario, Canada. 8-1

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VALUABLE PATENTS SECURED—Protect your ideas. Send drawings for patentability search. New booklet free. Lester L. Sargent, 524 Tenth St., Washington, D. C. 9-17-ft

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ALL THE PRINTING YOU NEED for \$1 postpaid; fine cuts, free samples. Poultry, pigeons, dogs, stock, etc. Cuts made from photographs. The Fanciers' Press, Batavia, Ohio. 12

LET US QUOTE you price on the "different" kind of printing for poultrymen. The Bradley Press, Britton, Michigan. 12-1

POULTRYMEN'S PRINTING PREPAID. Promptest service. Quality printing half what others charge. Leading poultry printing specialists. Noteheads, envelopes, cards, tags, labels; 100 either, 60c; 500, \$1.50; 1,000, \$2.50. Postcards, circulars, folders, linen letterheads, everything. Finest cuts furnished. Stamp brings elegant samples and special offers. Model Printing Company, Manchester, Iowa. 12-2

PRINTING FOR POULTRYMEN—Stockmen—Fanciers. Show catalogs, club annuals, letterheads, cards, tags, everything. Dependable service—lowest prices. Established 1900. Interesting samples FREE. Sullivan Printing Company, Drawer 10, Sullivan, Indiana. 11-1

SELL OR EXCHANGE

FORTY 300-EGG INCUBATORS for sale or exchange for poultry. All in first class condition. Installing mammoths. Miller Poultry Farm, Lancaster, Mo. 12-2

FOR EXCHANGE—New L. C. Smith double barrel hammerless shot gun. Late model, high-grade field gun, complete with new heavy sole leather gun case and all cleaning tools. A dandy outfit. A regular \$65 value. Also a fine No. 8 Remington typewriter in excellent condition mechanically and otherwise. Originally cost \$110. Complete with metallic case and all cleaning tools. Will exchange the above for thorobred poultry, any variety. Will add sufficient cash to make up any difference for quantity and quality. Address "Kingston," Lock Box 221, Burnside, Kentucky. 12

FARMS FOR SALE

65-ACRE FARM ONLY \$800—Near hustling city. With best markets; mile post office, high school, churches, stores; 10 minutes' walk to river. Machine-worked fields, spring-watered pasture, abundant wood, timber, fruit; 6-room house, good barns, carriage, poultry, ice houses. Circumstances forcing sale; \$800 takes all, part cash. See personal property included and full details, page 5, Strout's Fall Farm Catalogue, just out; copy free. E. A. Strout, Farm Agency, Dept. 4002, 150 Nassau St., New York, N. Y. 12

FOUR-ACRE POULTRY and Berry Farm in town, depot ½ mile. Level, rich soil, good buildings, fine well, one hour to large St. Paul, Minneapolis markets. Fishing, boating, bathing nearby. Price \$3,500. Easy terms. Owner Alfred H. Miller, Prescott, Wis. 12-2

PREPARE FOR FUTURE—40,000 acres clover, grain and fruit land in Michigan's garden bed. 10 acres up. \$15 to \$30 per acre. Monthly terms. A \$50 bond starts you. Free booklet. Swigart Land Co., 1-1253 First Nat'l Bank Building, Chicago, Illinois. 12

FARMS WANTED.

WANTED TO HEAR from owners of good poultry farm for sale. State cash price, description. D. F. Bush, Minneapolis, Minn. 11-12

MISCELLANEOUS

MAKE YOURSELF and family a Christmas present, swear off tobacco habit. We'll tell you how, easily, inexpensively. John Stokes, Mohawk, Florida. 12

WANTED

WANTED—PULLETS. Single Comb Anconas. Frank Buck, Metamora, Ohio. 12-2

SITUATION WANTED—Progressive man with record of ten years successful, money making management of largest commercial poultry enterprises, seeks promising connection on salary or percentage basis. Box 45, American Poultry Journal. 12

COMPETENT POULTRYMAN desires position, wide experience, commercial, exhibition; expert conditioner. "G. S." American Poultry Journal. 12

EXPERIENCED POULTRYMAN desires position; married, no children. Ernest Brown, 584 S. Oakland Ave., Decatur, Ill. 12

WANTED—SINGLE MAN on modern poultry farm located in Chicago suburb. Best of living conditions. Must have experience. A good position and opportunity to a competent and willing worker. Good wages to the right man. Answer, stating age, nationality and late experience. Address O, care American Poultry Journal. 12

LOOK! WANTED—Pound size and larger pullets in Silver and Golden Campines, Buttercups, Speckled Sussex, Anconas, Rocks, Reds, Minorcas, Orpingtons, Wyandottes, Leghorns. Yearling hens in Silver or Golden Campines, Buttercups, Speckled Sussex, White Campines, S. C. White Minorcas. Only healthy thorobred stock wanted. In writing, state lowest price. Walker Lybarger, Gambier, Ohio. 10-12

BRITISH FIRM REQUIRE American Agency for Great Britain and Colonies for Poultry Appliances, stock, etc. Apply giving particulars and best selling terms in first instance to "Allies," care American Poultry Journal, Chicago, Ill. 11-1

WANTED—WE DESIRE to buy a large number of chickens of the following standard varieties: Silver, Golden and Black Wyandottes, pullets and cockerels; Cornish Indian Games, pullets and cockerels; Dark Brahmans, pullets and cockerels; Red Caps, females and cockerels; Blue Andalusians, females and cockerels; W. F. Black Spanish, females and cockerels; S. C. White and S. C. Black Minorcas, females and cockerels; S. S. Hamburgs, females and cockerels. Stock must be large and vigorous and up to Standard requirements. If you mean business give full description and prices in your first letter. Address Midland Poultry Co., Freeport, Ill. 11-12

WANTED—PURE BRED poultry, Blue Andalusians, Games, Spanish, Houdans and other varieties; also pigeons, in Fantails, Carneaux, Homers. Describe what you have, quoting lowest prices. Z. G. McKay, Clinton, Iowa. 11-1

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FORDS START EASY in cold weather—with our new 1919 carburetors. 34 miles per gallon. Use cheapest gasoline or half kerosene. Increased power. Styles for any season. Very slow on high. Attach it yourself. Big profits to agents. Money back guarantee. 30 days' trial. Air-Friction Carburetor Co., 378 Madison, Dayton, Ohio. 10-18-ft



POULTRY BOOK Latest and best yet; 144 pages, 215 beautiful pictures and color plates. Hatching, rearing, feeding and disease information; describes the busy Poultry Farm handling 63 varieties including Indian Runners, tells how to properly choose fowls, eggs, incubator and secure cheap feed. This practical book worth dollars mailed for 10 cents. **Berry's Poultry Farm, Box 115, Clarinda, Iowa**

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By Morgan Bates. A "straight from the shoulder" talk on raising poultry from the money-making point of view. It gives the beginner sound advice about starting in. Covers all subjects. Price 50c. **AMERICAN POULTRY JOURNAL PUB. CO.** 523 Plymouth Court Chicago, Illinois

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One of our Boston Birds

FIRST PRIZE Boston Winners

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We Won 1917 at the National Banded Plymouth Rock Club Meet, Boston (did not compete 1918), all Seven Prizes on Cockerels, First Pen Chicks, First Pen Fowls, First Pen Mated for Cockerel Breeding, National Trophy Silver Cup for Best Cock, Cockerel, Hen, Pullet and Hen; also many other prizes.

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superior breeders or show specimens, \$10 to \$100 each; limited numbers of choice Hens, the kind that winners are bred from; Cockerels and Pullets, some of the finest we ever raised, part now ready, more as they develop; prices according to grade and selections made for individual requirements.

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S. C. BUFF LEGHORNS—Hundreds of show birds and best bred-to-lay stock at living prices. The man that hatches them by the thousands; largest Buff breeder in the world. F. S. Smith, Boxes C and D, Hamilton, Ohio. 12



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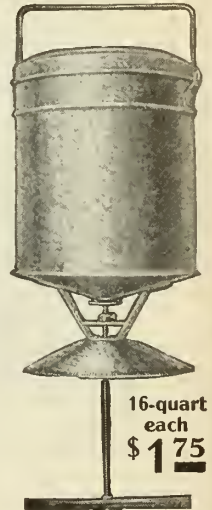
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All you have to do is to fill the can of this feeder with wheat, corn, oats or any other kind of feed, either mixed or separate. When the chickens are hungry they pick at the cross bar; this causes some feed to drop to the ground where the chickens can pick it up. No feed spoils or is eaten by rats or sparrows. You can save enough feed in one month to pay for these feeders. Besides the saving of fuel, you save work.

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For six years this Feeder has been on the market, and they have been six years of satisfaction giving.

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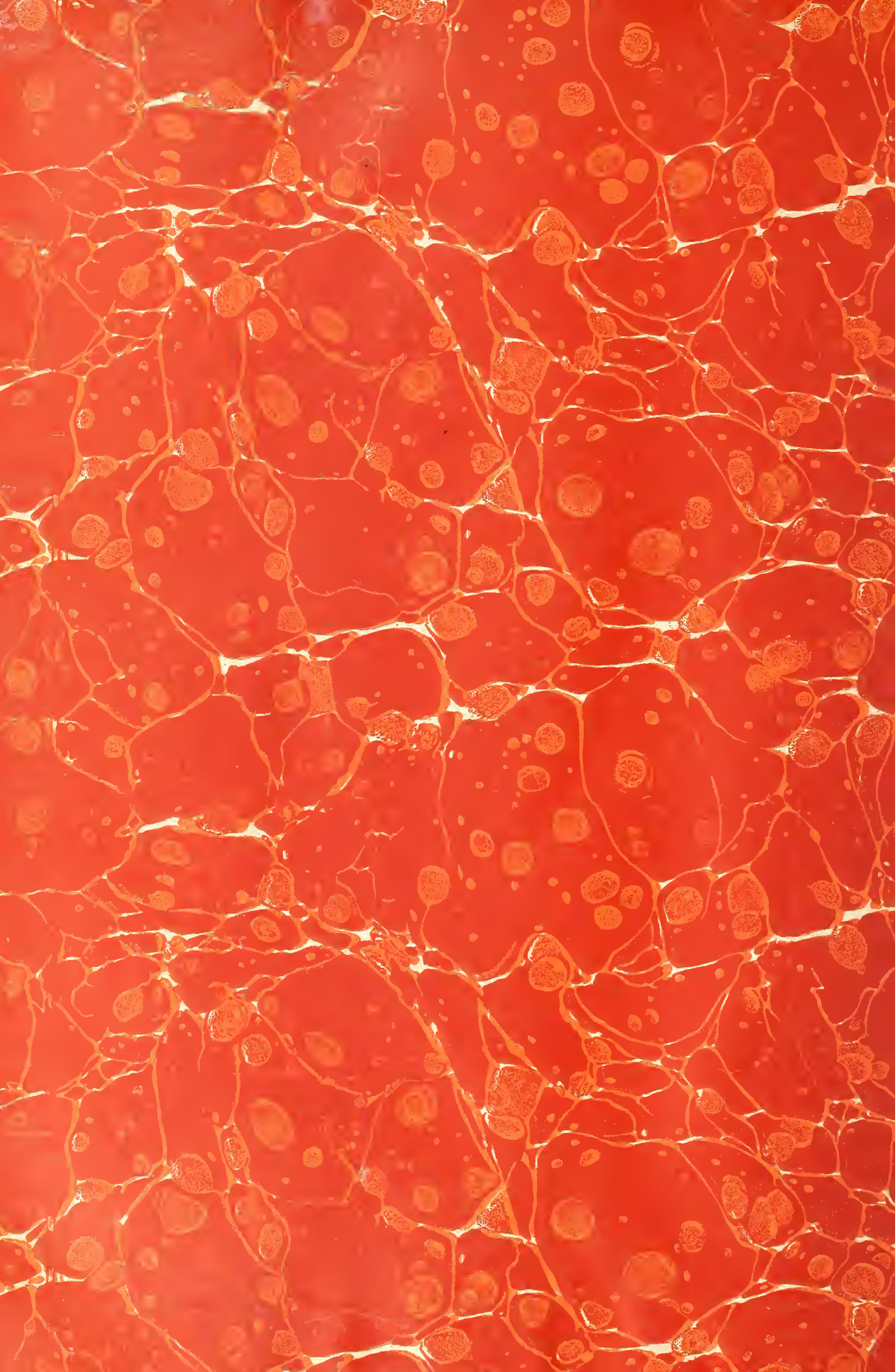
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