

AMERICAN POULTRY WORLD

FEBRUARY, 1916



First Prize S. C. Black Minorca Cockerel, Madison Square Garden, New York, 1915-16.
Bred and Exhibited by Frank McGrann, Lancaster, Penn. (See Page 275.)

V-I-C-T-O-R-Y!!

WORLD'S FAIR, SAN FRANCISCO

This is the greatest poultry show of all the World. This is the show where the best birds of the entire continent, yes, of the entire world came together in one great, gigantic, final struggle, a battle of the greatest among the great, a titanic combat for supremacy among all the leading strains. This is the entire World's Poultry Show, where

VICTORY MEANS WORLD POWER

East and west, Northland and Southland, the entire country end for end had been combed over and over again for the best birds that could be found AT ANY PRICE to compete at just this, the Greatest among all Great shows. And

THE ARISTOCRATS WON

Among a number of other prizes they won that premier prize, that most coveted prize of the entire show

FIRST EXHIBITION COCKEREL

This verdict means that the Aristocrat cockerel line now *reigns supreme*. They met in the Arena of the entire world and they came home, crowned as conquerors.

Today — Right Today

The Aristocrats are the most sensational Barred Plymouth Rocks in the World. This is a big, broad statement, but it is true. This does not mean "they will be"—but it means "they are—today".

AH! YOU OUGHT TO SEE THEM

What beautiful, beautiful specimens! What show-birds! If you possibly can, come and see them yourself. I invite inspection, for you will go away simply astonished at seeing so many, *many* show birds of the *highest* rank. If you cannot come yourself, send someone to scout around for you. If he *knows* Barred Rocks, he will buy for you of these birds. If you cannot do either one, then do the only other thing you can do—let me send you any bird or birds you may wish, for *any* show, *anywhere* in all America, with this clear, business-like understanding: That you may examine such birds in your own yards for a week, and if they are not *better* than you expect them to be for the price you paid—please return the chickens to me and I will promptly refund you the *full purchase price*. There are no other conditions, no other strings tied to this proposition. You, *you* must be satisfied. Is not this as broad, as fair, and clear as you can reasonably expect? Is not this a convincing argument, showing that the Aristocrats simply *must* have the quality I claim?

Fellow Breeders— these Aristocrat cockerels this year are simply a revelation. Not only in that sharp, dazzling, scintillating color and barring for which the Aristocrats are noted all over the World, but also in fine finish, proud, vigorous carriage, ideal Plymouth Rock type and shape, in almost perfect head-points and in deep-orange colored legs, they are looking for their equals. I am proud of these birds—proud and happy.

If you wish to win at any show, with any kind of Barred Rock, write me—for I can surely furnish such winners. You may order old birds or young, male or female, cockerel-bred or pullet-bred, singles or pens, all are guaranteed as above. If you want to be sure of winning, you simply must have Aristocrats. Order early and be on the safe side.



W. D. HOLTERMAN, Fancier, Box H, FORT WAYNE, IND.

AMERICAN POULTRY WORLD

Published the First of Each Month by the
AMERICAN POULTRY PUBLISHING COMPANY

142 Main Street, 158 Pearl St.,
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 Write your name and post office address plainly. If your Journal does not reach you promptly each month, kindly notify us.
 When you request change of address give the old as well as the new address.

EXPIRATIONS AND RENEWALS

The AMERICAN POULTRY WORLD is discontinued at the completion of the subscription term by order of the postal authorities. This notice will be marked with a blue X when your subscription has expired. We solicit a prompt renewal. Please do not delay.

45,000 COPIES PER MONTH

It is positively guaranteed that during the year ending April, 1916, the AMERICAN POULTRY WORLD will circulate an average of forty-five thousand (45,000) copies per month. All advertising contracts are based on this circulation.

ADVERTISERS GUARANTEED

We guarantee our subscribers against loss due to fraudulent misrepresentation in any display advertisement appearing in the AMERICAN POULTRY WORLD, providing the subscriber when ordering the fowls or merchandise, states that the advertisement was seen in the AMERICAN POULTRY WORLD, and places the order during the month or months in which the advertisement appears in our columns and promptly notifies us of the fraudulent misrepresentation of the advertiser, giving full particulars.

AMERICAN POULTRY PUBLISHING COMPANY

Advertising Rates Made Known on Application

Entered at postoffice. Buffalo, N.Y. as second-class mail matter

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General business improving rapidly—also the Standard-bred Poultry Business. The American Buff Plymouth Rock Club stands for square dealing. Country-wide movement for truthful advertising and honest dealing in mail order business. Quite liable to make the poultry business appear ridiculous in the public mind. Matter of interest to specialty breeders of standard-bred fowl. Deputy U. S. Marshal arrests poultry crook of Bladensburg, Ohio. Attractive new style of American Poultry World widely popular with subscribers and advertisers. Again a picture book of prize winning specimens at foremost exhibitions. Strain of Rhode Island Reds that reaches back to origin of the breed. Instructive Barred Rock exhibit made by A. C. Hawkins at Boston Show. Words of Deserved praise for A. O. Schilling's excellent work as a poultry artist. Line-Breeding article next month. An advertisement that has attracted wide-spread attention. W. B. Atherton, secretary-treasurer of the Boston Show, presented with a gold watch. Should study the poultry advertisements—they are instructive. The man who produced a Rhode Island Red that laid 309 eggs in three hundred and sixty five days. A veteran of the Poultry World endorses work being done by A. P. W. The old, old argument in favor of car-lot "String-Men" who carry away the prize money at fall fairs. Editorial Notes.	
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45,000 COPIES FOR FEBRUARY, 1916

E. D. Corson, Secretary-Treasurer of the Corson Manufacturing Co., printers and binders, being first duly sworn, states that that company has a contract for and is printing and binding forty-five thousand (45,000) copies of the February, 1916, number of the AMERICAN POULTRY WORLD.

GEO. E. FITZSIMMONS, Notary Public.

LESTER TOMPKINS' REDS



BLOOD WILL TELL

DON'T BELIEVE IT? Ask any successful exhibitor and he will advise that it is absolutely necessary to have correct blood lines in order to produce winners. Have you insured your success for next season with a well-bred male or female?

LESTER TOMPKINS' SINGLE AND ROSE COMB REDS WILL HELP YOU

improve the color and shape of your Reds as they have done for breeders throughout the world. They are the oldest line-bred Rhode Island Red strain in existence. They have the correct Rhode Island Red type. They have the rich, brilliant, lustrous color, that has made them the greatest prize winning strain in existence. At the

NEW YORK PALACE SHOW—DECEMBER, 1915

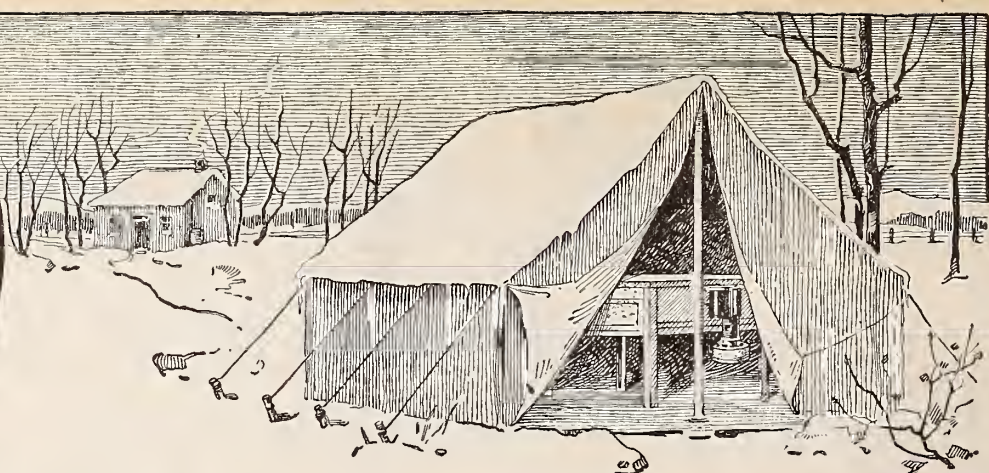
they won 1 cock, hen, cockerel, pullet and pen. My first prize winning pen was pronounced by judges to be the finest display pen of the variety ever shown.

EGGS from the finest matings ever brought together. The matings that will produce hundreds of next winter's show winners, \$5.00 and up. I shall have some choice males for sale. It will pay you to write your wants and send for my catalogue and mating list.

LESTER TOMPKINS, CONCORD, MASS.



H. H. Johnson



Hatched Out 90 Chicks in a Tent —Weather 20° Below Zero

SUCH was the record Old Trusty made for E. M. Whitcomb of Steamboat Springs, Colorado. He writes, "I had splendid success with Old Trusty last year, even if I did run the first hatch without a thermometer. Got 90 chicks in a tent, 19 below one night and 20 below the next. Have been told my hatches were better than any ever had in this part of the country."

What could better prove the weather-proof construction and sure results of

Old Trusty

Here was an extreme test. Not only cold weather but out in a cold tent. We do not recommend this way of hatching in cold weather, but it shows what Old Trusty can do when the extreme is wanted. Your hatches may be in a cellar, or in a room upstairs, or in a sheltered poultry house, but wherever they are you can be sure of top-notch results with Old Trusty. You want an incubator that can do cold-weather hatching. Winter hatches mean having laying hens the following fall and winter when egg prices soar. Mr. Whitcomb has the right idea. He proves it in his letter which further states that his 102 hens laid 1084 eggs in January with 40 below zero weather some of the time.



M. M. Johnson
Inventor of Old Trusty

Write Today for the Old Trusty Book

and Know the Money-Making Reasons Why
650,000 Customers Bought Old Trusty for Surest
Profits With Least Worry, Trouble and Expense

If championships were our point, Old Trusty would get the best a-going. Fact is, Old Trusty owners have taken more prizes than the owners of any other. But that may be because more people depend upon Old Trusty. This simply goes to show that if you want surest success with the most profits you want Old Trusty.

Big Production—Low Cost

You'd pay a top-notch price for Old Trusty if it was built by ordinary methods or in the ordinary factory. It's because we make Old Trusty in lots of tens of thousands in the largest exclusive incubator and brooder factory in the world that enables us to quote you the low price we do. Our organization is home grown and home trained—no big guns drawing fat salaries that add to the overhead cost. These are the reasons why you get the topmost in incubator value at the lowest cost in Old Trusty.

Now is the time to start your hatches. And you want Old Trusty to make them for you. Write us today for our 1916 price, freight prepaid to your station. Yours very truly,

H. H. JOHNSON

**The M. M. Johnson
Company**

Clay Center Nebraska



Old Trusty is made in several sizes. There's a size still

Less Than \$10

freight prepaid anywhere east of the Rockies—a trifle more to points farther west.

40 to 90 Days' Trial

Five Hens Fed on Red Comb Show Year's Record of 1072 Eggs



Let Charles E. Reed tell his own story. This is his letter:

"Edwards & Loomis Co., Chicago, Ill.

"Gentlemen:—My five White Plymouth Rock hens in the International Egg laying Competition was the heaviest laying pen of White Plymouth Rocks ever recorded in a laying competition. Their total yearly record was 1072 eggs and they were ahead of all varieties of Plymouth Rocks. One hen laid 247, another 244 another 228 and one 192. For the coldest four weeks of the winter they won the special prize for greatest number of eggs laid. These hens and their parents were raised and conditioned on Red Comb Feed."—C. E. Reed.

"Red Comb Means Health"

Red Comb



is a scientifically balanced ration—with the minimum of grit. Percentage guaranteed on each bag. Or without grit if preferred. Ground of the choicest of whole grains. No matter the distance, the cost or the trouble, we see to it that every ingredient is the best earth can produce.

Mail coupon for Free Book, "FEEDING POULTRY FOR PROFIT." We will send name of your Red Comb dealer.

EDWARDS & LOOMIS CO.
344-Z N. Elizabeth Street
CHICAGO, ILL.

*Also Manufacturers of the
Famous Line of Red Horn
Dairy Feeds*



Mail
This
Coupon



Edwards & Loomis Co.
344-Z N. Elizabeth St., Chicago, Ill.

Send me FREE copy of book "Feeding Poultry for Profit." Also name of Red Comb dealer near me.

Name _____

Address _____

POULTRY KEEPERS' FOUR

Four for \$1

One of the greatest clubbing combinations ever made. Four of the most popular and most widely read poultry magazines published are here offered at a saving of one hundred per cent. This is one clubbing opportunity that you cannot afford to miss.

These Four Great Poultry Papers Each One Year For One Dollar

<i>American Poultry World</i> , -	price 50c.	} All \$ 1.00 for
<i>American Poultry Advocate</i> , -	" 50c.	
<i>Reliable Poultry Journal</i> , -	" 50c.	
<i>Western Poultry Journal</i> , -	" 50c.	
Total value, \$2.00		

This group covers the poultry interests of the country like a blanket and includes the best known papers published.

AMERICAN POULTRY WORLD is progressive in its policies and is one of the most interesting and best illustrated poultry magazines published. It caters to both the amateur and professional poultry keeper, and supplies the greatest amount of valuable and educational reading matter, covering all subjects of interest to poultry keepers. Among its several departments, Government Work for Poultry each month contains the boiled down facts of what our government investigators are doing for poultry culture. Its editorials by Grant M. Curtis and Wm. C. Denny are the best in the whole field of poultry journalism. It is pre-eminently America's leading poultry magazine. Published monthly at Buffalo, N. Y. **Subscription price, 50c per year.**

AMERICAN POULTRY ADVOCATE is devoted to the interests of both the fancier and practical poultryman and is one of the best known and most widely read of all poultry magazines. It is one of the oldest poultry publications in the United States and is authoritative and helpful in all branches of poultry work, both to the expert and beginner. Its articles are reasonable and cover a wide range of subjects. Edited and published by C. C. DePuy, Syracuse, N. Y. **Subscription price 50c per year.**

RELIABLE POULTRY JOURNAL is a leader among poultry journals. Each number contains from 86 to 224 pages and is filled with practical writings of the most successful poultrymen, the ones who have been successful—the money making breeders of this and other countries. Each issue contains one or more articles that are worth the whole subscription price to each reader. The most dependable and one of the oldest publications. Edited by Grant M. Curtis, illustrated by Franklin L. Sewell. **Subscription price, 50c per year.**

WESTERN POULTRY JOURNAL is devoted to the up-building of the poultry industry and is a recognized leader in its field. Its contributors are those who have made a success of and know the "ups" and "downs" of the poultry business and they tell of their experiences in a manner that is both inspiring and educational. It enjoys a wide circulation and is published in Iowa, in the heart of the section of the middle west that is rapidly making poultry history. Edited and published by E. E. Richards. **Subscription price, 50c per year.**

This offer is made for a limited time only and is good for renewals as well as new orders. For your convenience a coupon order blank is attached. Papers may be sent all to one or to separate addresses.

Good for New or Renewals to any or all.
 Canadian subscribers\$2.00
 Foreign subscribers\$3.00

Send all orders to

AMERICAN POULTRY WORLD,
 158 Pearl Street, Buffalo, N. Y.

USE THE COUPON 

American Poultry World,
 Buffalo, N. Y.

Gentlemen:—Enclosed find one dollar for which send each of the following papers one year and have subscription begin as indicated.

American Poultry World:

Begin with

New or renewal

American Poultry Advocate:

Begin with

New or renewal

Reliable Poultry Journal:

Begin with

New or renewal

Western Poultry Journal:

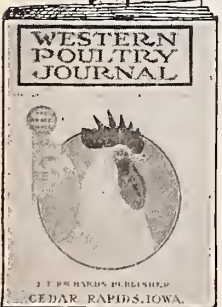
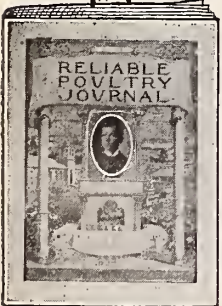
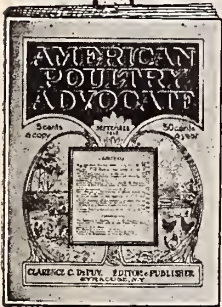
Begin with

New or renewal

Name

Street

Town..... State.....



A.P.W.

Build on this Foundation

First, build up the health of the breeding stock, the fathers and mothers of the little chicks that are going to be hatched in the spring. That is the way to make sure of fertile eggs. Don't waste time and incubator heat on eggs that cannot hatch out strong, livable chicks. Successful breeders know that in this pre-hatching season they should use

Pratts Poultry Regulator—and Remedies

Then they can figure on a healthy, husky chick for almost every egg. Chicks will grow rapidly and mature early. Your poultry will have abounding health, strength and stamina, and be kept free from vermin and disease.

Here are some Pratts Remedies you should use:

Pratts Poultry Regulator. Unequalled for putting breeding stock into condition and to produce fertile hatching eggs in large quantities. 25c; 50c; \$1.00; 25 lb. pail, \$2.50.

Pratts Baby Chick Food. Guaranteed to raise every livable chick. 25c; 50c; 14 lb. bag, \$1.00; 25 lbs., \$1.50; 100 lbs., \$5.75.

Pratts Powdered Lice Killer. Rids the sitting hen of lice and protects the chicks. Sifter top cans, 25c; 50c.

Pratts Poultry Disinfectant. A liquid lice and mite killer. Germicide, antiseptic and deodorant. One quart, 35c; one gallon, \$1.00.

Pratts Roup Remedy. Tablets or powder. The sure, safe, guaranteed remedy for colds, roup, canker and similar diseases. 25c; 50c and \$1.00.

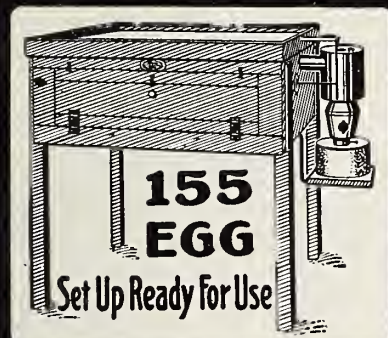
The **Pratts Label** means satisfaction guaranteed or your money back.

The better class of Feed, Seed and Poultry Supply Dealers all sell **Pratts**, so ask for them and accept no others.

PRATT FOOD COMPANY

422

Philadelphia, Chicago and Toronto



Leads Them All in Hatches

100% Hatch
"My first hatch was 125 big, strong chicks from 125 eggs. How's that?"
—Wm. A. Burkhardt, Bryan, Ohio

140 Chicks from 140 Eggs
"I have had a splendid hatch. 140 chicks from 140 eggs. Great Machines."
—A. J. Bohn, Truesdale, Mo.

No Cripples
"I have had six 93% hatches and not a cripple in the bunch. Best Machines Yet."
—Bert Covert, Lynchburg, Ohio

Three 98% Hatches
"Three 98% hatches and the healthiest chicks that I ever saw. They can't be beat."
—W. M. Allen, Mt. Calm, Texas

Hatches Like These Common With The PROGRESSIVE

This big 155 egg Progressive Incubator furnishes exactly the right conditions to hatch a strong, healthy chick from every hatchable egg. Has led the field for many years, and improved case construction this year makes Record Results still more certain. Copper hot water heater with one piece corrugated elbows, automatic double disc regulator, double doors—one of glass and one of wood—deep nursery, safety lamp, thermometer, egg tester, and all other parts time tested and perfect to make sure hatches. You can always depend on the Progressive Incubator.

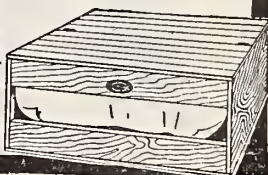
Only Incubator with Hundreds of Dead Air Cells to Protect Eggs

Sudden temperature changes won't spoil your hatch. Works right with little attention and little oil. Built of Best Clear Genuine California Redwood and lined with a three ply corrugated insulator with Hundreds of Dead Air Cells to protect the egg chamber. It's set up and ready for use when you get it.

Get Our Big Free Book

Gives full description of parts. Big new Combination Offers. Straightforward talk about the Progressive Method of doing business and valuable suggestions on making poultry pay. If you are in a hurry send order from this advertisement. 155 egg Incubator \$7.85; with Brooder \$9.85. Freight prepaid East of the Rockies. Machines fully guaranteed. Money back if not as represented.

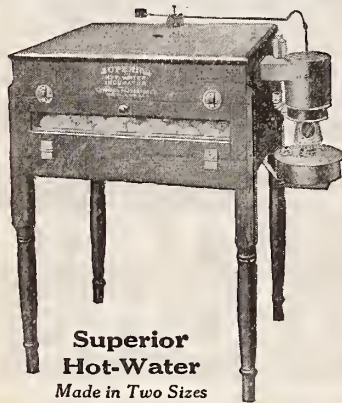
Progressive Incubator Company, Box 191 Racine, Wis.



The Cyphers Co's Way

EVERYONE who wants to raise chicks for profit or pleasure—who wants **big hatches** of strong, rapidly-growing chicks—will **insure success** by following the "Cyphers Way." Tens of thousands of successful poultry growers in all sections of this country, in Canada, and in foreign lands, use Cyphers Company's equipment, and **follow our methods**.

On large practical poultry farms, where thousands of chicks are hatched each season; on small poultry plants, where one or two poor hatches may mean a serious set-back—in fact, wherever chicks are hatched in large or small numbers, Cyphers-built Incubators have been for the past **twenty years**



Superior Hot-Water

Made in Two Sizes

Prices: 65 Eggs, \$12.00. 130 Eggs, \$16.00

the acknowledged leaders—they **hatch better, last longer**, require **less attention** and produce **larger and stronger chicks**—"the kind with the kick in them."

What other successful poultry growers have done with their Cyphers machines, YOU, Reader, can do to-day.

Why take chances—why waste time and money with **inferior** equipment?

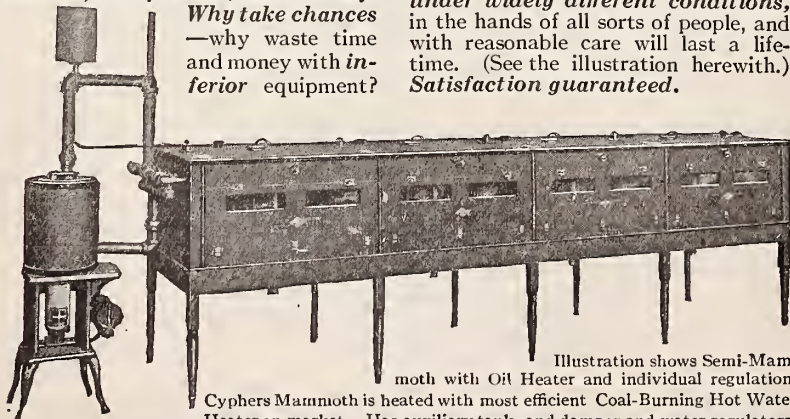


Illustration shows Semi-Mammoth with Oil Heater and individual regulation. Cyphers Mammoth is heated with most efficient Coal-Burning Hot Water Heater on market. Has auxiliary tank, and damper and water regulators.

Cyphers-Built Incubators

\$12 to \$40

Three Styles—Eight Sizes

In these machines you get the benefit of the twenty years experience of the **most expert incubator makers**. They are the logical incubators for poultrymen who have reached success, and are **especially valuable for beginners**, who thus can depend upon getting **big, successful hatches right from the start**. Whether you prefer a hot-air or hot-water incubator, there is a Cyphers-built machine in a size to suit your needs.

The Superior Hot Water Hatcher

Has all the time-tried features of Cyphers Standard of design, construction and finish. The water boiler and tubular tank heating system are of heavy-weight copper. Lamp has seamless bowl; burner is best on market; case is **wood**, attractively finished in golden brown, with brass trimmings; has **double walls**, well insulated; equipped with Standard Cyphers Complete Regulator. Has **forced water circulation**; is automatic in ventilation. (See illustration.) **Fully guaranteed.**

The Standard Cyphers Incubator

The machine that for **twenty years** has been recognized as the "**standard hatcher of the world**." Tens of thousands of them are in successful use in every civilized country on the globe. They are the last word to date in incubator building. Are built to hatch successfully in **all climates, under widely different conditions**, in the hands of all sorts of people, and with reasonable care will last a lifetime. (See the illustration herewith.) **Satisfaction guaranteed.**



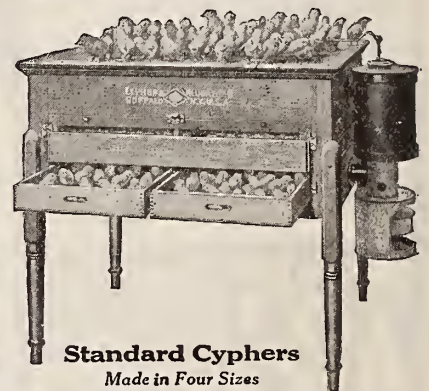
Columbia Hot-Air

Made in Two Sizes

Prices: 140 Eggs, \$16.00. 250 Eggs, \$22.00

The Columbia Hot-Air Incubator

The best incubator on the market at the price. Has **wooden** case, attractively finished in dark green, with brass trimmings and **double, well-insulated walls**. Seamless-bottom lamp bowl, best quality brass burner, **Cyphers complete regulator**. Fume-proof, forced-draft heater. Automatic in ventilation and embodies **diffusive** principle. **Fully Guaranteed.**



Standard Cyphers

Made in Four Sizes

Prices: 70 Eggs, \$15.00. 144 Eggs, \$23.00. 244 Eggs, 34.00. 390 Eggs, 40.00

Cyphers Mammoths and Semi-Mammoths

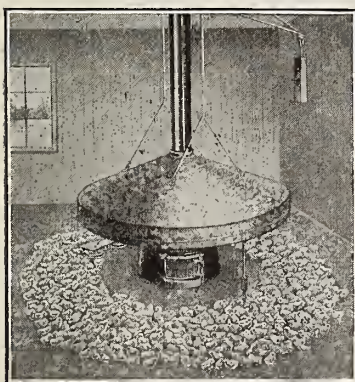
The latest-pattern Cyphers Semi-Mammoth Incubators, for 1,200 and 1,600 eggs, and the Cyphers Mammoths for 4,000 eggs and up, are **built in sections**, on the same principle and with the same high-grade materials that have made the Standard Cyphers famous. **Most efficient and economical** large hatchers on the market. Sections are crated separately for safe shipment; are easy to set up; fully guaranteed. Write for Special Circular.

Hatching and Brooding Chicks

YOUR season's profits will depend largely upon the number of *strong, rapid-growing chicks* you are *able to raise*. Every requirement for successfully raising chicks is provided in the "Cyphers Way." It is necessary to have a Brooder or a Brooding Hover that can furnish all the heat needed for the chicks in the *coldest and most changeable weather*. A *dependable regulator* is essential, and to be strong and vigorous the chicks must be provided automatically with a *constant supply of pure, fresh warmed air*. All these *highly important essentials* are embodied in Cyphers Brooders and Hovers described herewith.

The Cyphers Coal-Burning Colony Hover

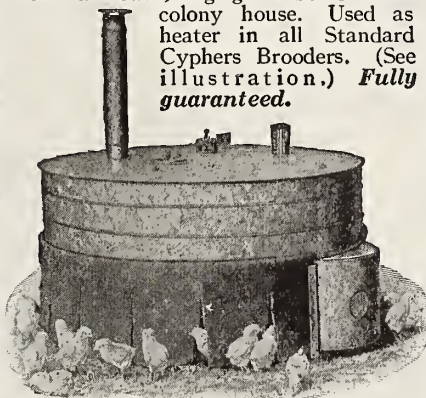
With this Hover you can brood chicks in flocks of 300 to 1,500 each, and do it *more cheaply* than ever before. In health of chicks, in low cost of labor and fuel, in simplicity and ease of operation, Cyphers Coal-Burning Colony Hover *has no equal* where chicks are to be brooded in large numbers. Its ample fuel capacity and automatic regulator will keep the chicks warm throughout the *coldest night*, maintaining a regular temperature of from 90 to 95 degrees under the hover and keeping the entire room comfortably warm. Made in *five sizes*. Write our nearest office for Special Circular.



Cyphers Colony Hover. Price, \$15.00 Up.

The Cyphers Adaptable Brooding Hover

For outdoor and indoor brooding. A popular and efficient Brooder at a *low price*. Tens of thousands of these standard Hovers are in successful use in all parts of the world. Is *self-regulating, self-ventilating, fume and gas-proof*, all-metal, and fire-proof. Lamp positively cannot blow out. Easily attached to *home-made brooder case*, large goods box or small colony house. Used as heater in all Standard Cyphers Brooders. (See illustration.) *Fully guaranteed*.



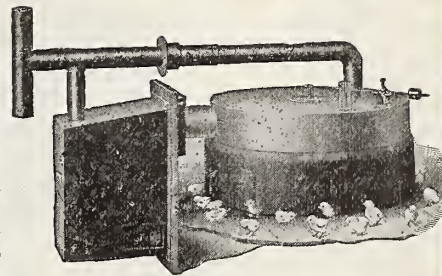
Cyphers Portable Hover. Price, \$9.00.

The Cyphers Portable Brooding Hover

Provides a *low-cost*, convenient, practical way to brood little chicks indoors. Set it down anywhere indoors and you will have a safe and comfortable home for the little chicks. "Movable" at a moment's notice without even turning down the lamp flame. It is an all-metal, *self-regulating, self-ventilating, complete brooding device*, automatic and economical. Does not need a brooder case or box enclosure. Chicks are on the level of room floor all the time. (See illustration.) *Fully guaranteed*.

Cyphers Poultry Foods

Equally important with proper brooding is *correct* feeding. The "Cyphers Way" provides a *complete* line of balanced-ration, special-purpose poultry foods. Look up our "Poultry Food" Advertisement on another page.



Cyphers Adaptable Hover. Price, \$9.00.

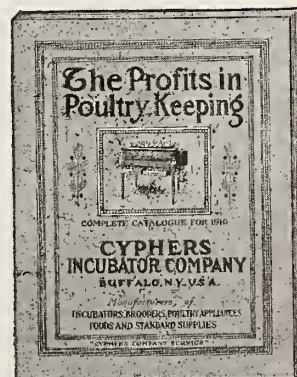
Cyphers "Free Service"

Whether you are a customer or not, you can *write* our "Service Department" for any information you may require in your poultry work or to *solve your poultry problems*. You will receive a prompt and helpful reply.

We want you to have our *free books and bulletins*—all well illustrated, practical and instructive—a *complete course in poultry raising*. Read our 1916 Year-Book for full information.

Send For Our 1916 Big Free Year-Book

We urge every reader to *write today* to our nearest office for a *free, post-paid copy* of this 172 page *Complete Illustrated Guide for Poultry Raisers*. A postal card will do. Read all about the "Cyphers Way" of making *big profits* with poultry—of building up an *independent, money-making poultry business*. Tells how you can pay for



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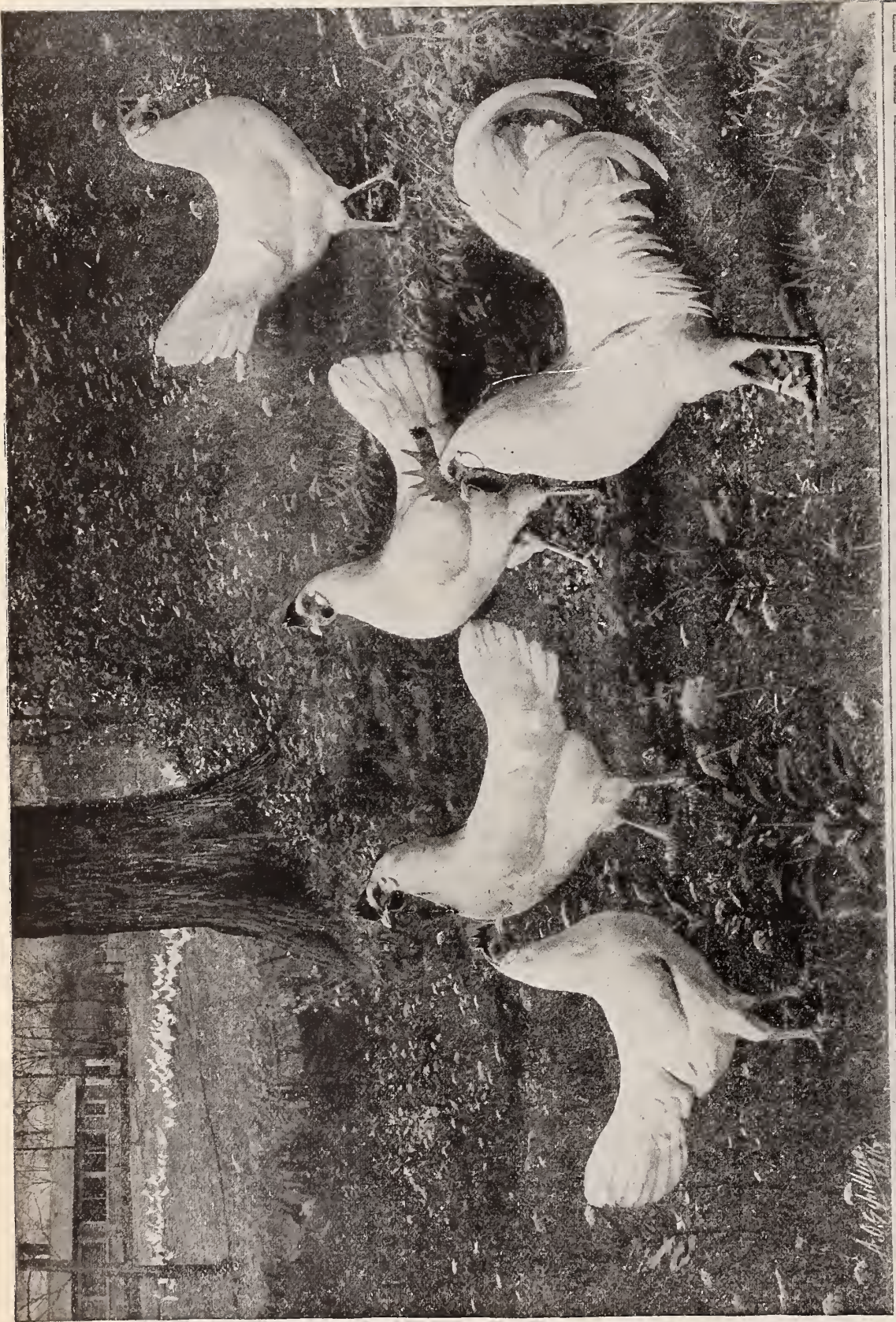
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FIRST PRIZE OLD PEN 3, C. WHITE LEGHORNS CHICAGO COLISEUM SHOW DEC. 1915
BRED AND OWNED BY RANCOCAS POULTRY FARMS BROWNS MILLS, N. J.

In the above group Rancoocas Poultry Farms, Brown's Mills, N. J., present to our readers a very choice pen of high class exhibition S. C. White Leghorns which carried off first honors at the recent Chicago Coliseum Show. Rancoocas White Leghorns always seem to get in the winnings regardless of the competition and we have never failed to find them holding their own against all comers. At Madison Square Garden Poultry Show last season they were successful to the extent of carrying off first prize exhibition pen and first prize hen. This season they have not exhibited as much as in former years on account of the heavy demand for exhibition stock from customers who wished to exhibit at some of the leading shows. To our knowledge they have supplied strings of White Plymouth Rocks as well as White Leghorns which have been very successful, and on account of the vast numbers of these two popular varieties produced at Rancoocas Poultry Farm, they are in a position to supply high class quality in numbers from one to one hundred if necessary. Messrs. Reese V. Hicks and M. L. Chapman, the two men who are responsible for the success of this large establishment, are known to the poultry fraternity as two of the best informed and successful breeders in the business. They know their birds and know how to produce them, consequently Rancoocas customers have an advantage in their dealings with them.—A. O. Schilling.

SELECTING SPECIMENS FOR THE BREEDING PEN

What are the Three Most Important Characteristics in Both Male and Females That Are to be Used as Breeders is the Question that Several Well Known and Successful Breeders Answer For the Help and Guidance of A. P. W. Readers

THERE are many problems to bother and perplex the beginner, and even the more experienced, in poultry raising. The degree of success attained will depend upon how well these problems are solved. All will not meet the same degree of success, as some will approach the correct solution much closer than others, while some will plod along in the same old way with little or no attempt toward improvement.

From time to time American Poultry World has asked prominent and successful breeders for replies to questions that were puzzling the less experienced, and in a majority of cases they have come forward and frankly replied. These replies covering a variety of subjects have appeared in past issues. Probably none of these have been more interesting than the Letter-Interviews appearing in recent numbers. The show season, just past, however claimed too much of the breeders attention and it was found necessary to discontinue this series of questions, or shall we call them lessons, for a few issues.

With the shows a thing of the past and everybody settled down to work of the breeding season, we will endeavor to have well known and successful breeders, several of them, each month answer the questions that we believe will be the most helpful to the beginner and novice. As interest now centers around the breeding pen the following question was selected as being helpful at this time:

What do you consider the three most important characteristics in both male and females that are to be used for breeding purposes? Why?

Several breeders whose success gives assurance of their ability have replied and it is



Probably no individual specimen attracted more attention at the recent Chicago Coliseum Show, than the cockerel shown in the above picture. He won first prize and Championship as a cockerel at the London Dairy Show, also first prize and special at the Sussex Club Show held during the month of December, at Chicago. The firm of Rawnsley-Shields are breeding Speckled Sussex and in our opinion, based on the specimens shown and the prizes won, they are in possession of one of the finest flocks of this breed in the country. The above cockerel had marvelous development, he was broad in breast, deep in body and had a fine neat well formed shank. In color of breast he was exceptionally even in markings and showed considerable red ground color. In this section of most males, the black spangles are too large and this results in an apparently black breast. For this particular reason the breast color of this bird was considered one of his strongest points. He was evenly and distinctly tipped with white in saddle and hackle and had a tail that was practically three-fourths black, while the tailcoverts were black, neatly tipped with white. We hope that Rawnsley & Shields will reproduce his like many times during the coming season.—A. O. Schilling.

gratifying indeed to note the willingness they have shown by replying to the question fully, and in a detailed manner. The reader is requested to study the question carefully and then read and re-read the replies. We believe that they will receive much information that will be of assistance in mating their breeding pens, and if the teachings of these experienced breeders are carefully followed success is bound to be the reward.

B. H. Scranton, Rising Sun, Ind., well known S. C. Rhode Island Red specialist gives blood lines as the first and most important characteristic.

In selecting birds for our matings from which we anticipate the best results (and this should apply to all for in breeding fancy birds every mating should be made with quality in view) there are many points to be taken into consideration.

There are a few points of more fundamental importance than others. First of all to consider is the bird of the right breeding. Has it behind it the blood lines which are necessary for it to reproduce or improve upon the quality of the specimen itself? Never would I consider the use of a bird produced by chance and not by systematic and careful breeding, no matter how choice the bird, for with such a mating you may wreck years of hard work. The bird may produce good quality in the first cross and afterward the weakness will crop out in a later generation. This applies to both male and female though of course many more chances are taken with the male.

Second in importance would I consider constitutional vigor. Under this I would place good strong bone, breadth of back and breast as well as good depth through the entire body. A bird of activity and keen in eye.



Such a bird if a male is always on the alert giving all attention to females and if properly cared for is sure to reproduce his strong qualities to a more marked degree than the sluggish listless bird.

In case of the female she is taking more exercise, always with good appetite, better circulation and in condition to produce stronger fertility, and stronger chicks follow in the way they were bred.

Third in the list I place type and color. I mention both for I am an advocate of both in my breeding pens. They should go hand in hand. You may produce some good quality birds from a bird of poor type or of poor color but can you reasonably expect the birds from such matings to be as uniform in quality as where both sex carry something near the ideal for which we are striving in our particular breed.—B. H. Scranton.

Vitality, Fecundity and Utility are the Value that C. R. Baker, Buff Rock Specialist, Abilene, Kansas Demands of His Breeders

What do I consider the three most important characteristics in both male and females that are to be used for breeding purposes? Why?

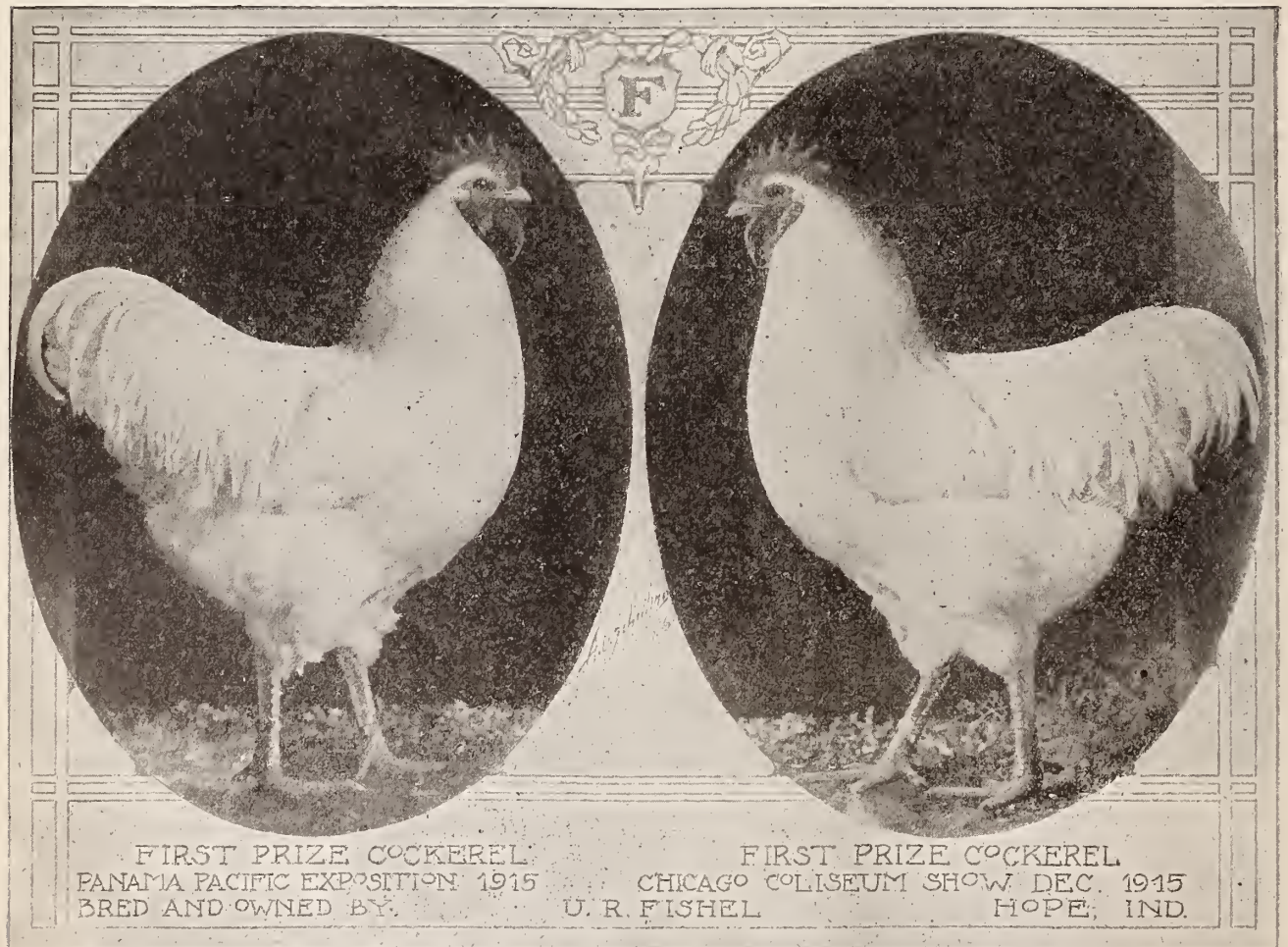
The first requirement of any fowl must of necessity be vitality, a characteristic demanded by any one who desires to "build his house upon a rock". In my opinion it would be superfluous to go into detail as to this most important requirement as it is fully understood and appreciated by all who have made a success of breeding poultry whether for fancy or utility and

the beginner is being constantly warned and if he does not heed, he will pay a high price for not doing so, sooner or later.

Second characteristic desired is fecundity. Selection for this very important quality in both male and female is an art in itself and I will venture that precious few breeders have availed themselves of the same. This must be taken into consideration if one is to make real progress along the desired lines. One often wonders why from one particular male that so many of the offspring follow the traits of said male while in the next yard the offspring will "take after" the females. It merely goes to demonstrate that in the first case the male excelled in the development of this characteristic while in the latter case the females excelled. The necessity of this point is absolutely essential.

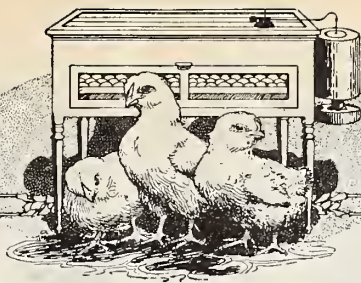
My third demand is for both male and female to stand and pass a high utility test for without the value of the ability to give forth a handsome yield, of what value to the commercial world would a fowl be? And it is upon this value that all values must finally be reckoned, let the fowl be what it will. Let the fancier build his flock upon a foundation with these three pillars therein and he has a thing of value. Then let him put on the frills of his favorite breed in the way of exhibition requirements and he has accomplished truly a work of art with an intrinsic value that the public will not only demand but will insist on having, and will have, let the price be what it will.

The above three characteristics combined may seem out of the reach of some but they are obtain- (Continued on page 303)



U. R. Fishel's White Plymouth Rocks are known the world over and are being exhibited by hundreds of Mr. Fishel's customers and are winning their share of prizes. They have been doing this for many years and no doubt will continue to do so as long as the breeding of this line of stock is conducted by the careful mind and hand of U. R. Fishel. In past years they have proven their worth as high class exhibition stock and during the past season their winnings seem to have upheld their past record. At the recent Panama-Pacific Exposition one of the above cockerels won first honors in a strong class. He was a bird of good proportions, nice neat comb, and wonderful white plumage, with a well balanced body carried on a pair of legs that were rich corn color. The other cockerel shown in accompanying illustration represents the first prize winner at the recent Chicago Coliseum Show. At this exhibition he was admired by many for his beautiful form and finish. He was large and shapely having a good head, neat comb and good colored legs and toes. The fact is, these two cockerels represent the product of years of careful study and breeding in White Plymouth Rocks which Mr. Fishel has been carrying on during the past decade.—A. O. Schilling.

Artificial Incubation



Herewith is a Most Interesting Article on the Care and Management of the Incubator also Simple and Easily Followed Instructions for Properly Handling Eggs During Incubation

BY F. T. FINCH*

THE operation of the incubator is but one of the several factors determining the success of a hatch, yet it is possible through carelessness or neglect in such operation or through ignorance of the principles of incubation, to destroy completely the hatching power of strong and fertile eggs. On the other hand, careful and intelligent operation may secure excellent results from strong eggs and really satisfactory results from weaker eggs. By slightly changing his methods the experienced operator is able to counteract to some extent, the effect of certain mistakes in operation. Success in artificial incubation comes only through a thorough understanding of the factors discussed in this lesson.

The Lamp

The results of incubation will depend largely on the care given to the lamp, for which one person should be responsible. No one else should raise or lower the flame, or interfere with the lamp in any way except to prevent an accident. The lamp should be filled, the wick trimmed and the burner cleaned once daily.

A regular hour should be assigned for filling the lamp, preferably in the morning and never at night, and all other work should be arranged to conform to this time, otherwise the lamp may be neglected and serious results may follow. The best time in the morning for this work is immediately after the eggs have been cared for. If the lamp is handled before the eggs are turned, the hands may become oily and thus soil the eggs. Incubator lamps should be filled to within one half inch of the top, and never completely full. Only the best grade of oil should be used. Before replacing the lamp, the oil should be carefully wiped off with a cloth for the purpose.

A square clean cut flame is preferable. The proper method of trimming the wick is to throw back the burner top, turn the wick down slightly, and cut away the burned part. If scissors are used, they should be placed flat on the wick tube and the wick cut straight across, the burned part being severed at a stroke. Practically the same result may be obtained by drawing a burned match across the wick tube.

Before cleaning the wick tube, the wick should be turned down in order that it may not be disturbed and the flame thus be made irregular. All the black material should be removed by sandpaper, a knife, or some other sharp instrument, and the tube should be wiped with a cloth. Care should be taken not to bend the wick tube as such bending will prevent the wick from working freely. The other parts of the burner should be well cleaned. The screen around the wick tube should be cleaned once a week and the burner should be boiled at least once a season in hot water contain washing powder.

Regulating the Flame

A new wick or one that is newly trimmed should be watch-

ed at first to prevent the flame from running up and smoking. The flame should be maintained sufficiently high to keep the temperature at the proper degree and the disc raised slightly during the day. In case the room temperature drops at night, the surplus heat will be used to prevent a drop in temperature in the egg chamber. If the flame flickers the operator should look for a broken isinglass in the heater and should see that the burner is in place and is working properly.

The heat is regulated by turning the adjustment nut above the regulator bar on the connecting rod. By screwing up on the adjustment nut until the disc over the heater drops flat on the heater exhaust all the heat will pass into the machine and the temperature may be increased. By screwing down on the adjustment nut and thus raising the disc, the heat will be allowed to escape. When the proper temperature has been reached, the thumscrew should be turned until the disc is about one eighth of an inch above the heater. When once correctly regulated, the temperature will vary only slightly if proper care is given to the lamp flame. Outside temperature changes should be met by altering the lamp flame and not the regulator, as the chick-

ens develop, however, more heat will be given off from the eggs, and the resulting increase in temperature will necessitate changing the regulator. The eggs should never be placed in the incubator until the temperature is properly regulated.

Temperature, Moisture and Ventilation

After the eggs have been placed in the machine, the temperature will drop and remain low for some time, it will then gradually rise, taking perhaps twelve to fourteen hours to reach the desired degree. The operator should not attempt to run the heat up too rapidly, but should allow this gradual increase. When the correct degree is reached, the incubator should be run with only slight variations. Although it is best to maintain an even temperature, it is not always possible to do so and an oc-

casional variation of one half degree or slightly more, will not result seriously if the average temperature is correct. A high temperature should be avoided, especially at the beginning of incubation. The temperature should be read through the glass door, which should be opened as little as possible.

The position of the thermometer should always be considered in determining the proper temperature to maintain. If the thermometer hangs above the trays, as it does in some incubators, thereby registering the temperature of the air and not that of the eggs, the actual temperature of the eggs is one to one half degrees lower the first week than the registered temperature. Therefore, in order to give the eggs the proper amount of heat the first week, when hanging thermometers are used, it is necessary to keep the temperature at 102.5 degrees or 103 degrees. With contact thermometers the temperature should be 102 degrees. Contact thermometers should always be placed between two fertile eggs.

The temperature within the incubator is less influenced by the outside after the first week, (Continued on page 289)

NOTE.—Just what percentage of chicks are now hatched in incubators we are unable to say. No doubt if such data were available we would be greatly surprised at the comparatively small part that the broody hen plays. The economic value of the incubator as a time and labor saver has made it one of your opportunities? Better give the in- in the poultry industry. Where any number of chickens are to be raised it is indispensable, and on large successful poultry farms it is the pivot around which all other operations, revolve, during the breeding season. There are a score or more of large manufacturers that turn out thousands each season and still there are thousands of poultry raisers who could double their profits by the use of the incubator. Reader, are you one of those who have failed to make the most of your opportunities? Better give the incubator a trial this season.—Wm. C. Denny, Associate Editor.

*The Cornell Reading-Courses Vol. 1, No. 6, Poultry Series.



FIRST PRIZE COCK



FIRST PRIZE COCKEREL

"SENSATION STRAIN"
ROSE COMB RHODE ISLAND REDS



SECOND PRIZE COCK



THIRD PRIZE COCK



FIFTH PRIZE COCK

ROSE COMB RHODE ISLAND RED WINNERS MADISON SQ GARDEN NEW YORK 1915-16
BRED AND OWNED BY
I. W. BEAN
SO. BRAINTREE, MASS.

The Rhode Island Red alley at the recent Garden Show was the center of attraction not only for Rhode Island Red breeders, but others who were present. We have found this to be so at nearly every show we have attended in recent years and it seems that no other breed is attracting so much attention and causing so much favorable comment. They are a worthy breed and the public is taking a great deal of interest in them. Mr. I. W. Bean, South Braintree, Mass., as the originator of the renowned "Sensation" Strain of R. C. Reds, has helped materially in making the Reds and also deserves credit for the wonderful strain he has established. The blood lines of this family of Reds is no doubt infused to varying degrees in many of the winning R. C. Reds of the present day. At the recent Garden Show Bean's R. C. Reds again made a wonderful record by the following winnings: 1-2-3-5 cock, 3rd hen, 1st cockerel, 2nd pullet and 1st pen. Five of the winning males including 1st prize cockerel are shown and in next month's issue we will show a picture of Mr. Bean's first prize winning pen, which were the center of much favorable comment on account of their excellent uniformity of color and beautiful pen type and size. Mr. Bean seems to be a past master in producing high class exhibition Reds and we hope that he will continue to breed more of them, thereby benefiting the breed in general by continuing the advancement and improvement of type and color—A. O. Schilling.

Mating Utility Poultry

The Improper Mating of Breeders Responsible for the High Mortality of Baby Chicks so Believes an Experienced Breeder. Comb and Indication of Health, Vigor and Laying Ability

BY DEXTER P. UPHAM

A SHORT time ago while talking to an enthusiastic poultryman I was asked the following question: "What do you consider the most important asset (if there is such a thing) to assure the financial success of a poultry raising proposition either large or small" and my reply was, "To take dollars out of the poultry business, sense must first be put in, if no sense then no dollars."

Many Contributing Causes

And this lack of sense (of chicken sense) is due to ignorance of one or more of the many details of the business. Often the house construction or the interior arrangements are at fault, or it may be faulty local soil and air conditions, namely poor surface and air drainage in the immediate neighborhood of the plant. But more often it is the feed and feeding methods and to be able to feed properly one must first of all be able to judge of the birds condition by their appearance and feed accordingly. Moreover to feed economically one should thoroughly understand the nutritive ratio and food value of all feeds and the good and bad effect of food on the birds.

But still more important than all of these and in my opinion the main cause of most of the trouble that we experience in the poultry business is the breeding or, to be more explicit, the mating up of inferior birds from which our young stock come each year. From years of experience in the breeding of "Useful Utility" poultry I am firmly convinced that the great majority of the tremendous losses every spring in the hatching and brooding of baby chicks, called by poultrymen the "annual slaughter" can be traced to the inferior quality of the parent stock itself.

What Constitutes a Good Breeder

Just what is good breeding stock and how is it possible to tell good breeders both male and female by their appearance? In the female the good breeding type is the good egg type in every particular and this is very simple to understand when we realize that the hens reproductive organs and egg making machinery (or at least the most important part of it) are one and the same thing, the ovary, and also that egg laying is simply the exaggeration of the birds natural inclination to reproduce itself.

In breeders, both male and female, we judge of the birds

health and strength by its physical appearance, actions, carriage, the lustre or lack of it of the feathers, the brightness of the eye, color of the comb, etc. But the comb shows much more than simply the birds physical condition it reflects absolutely the health, and much more important the strength of the birds reproductive organs.

The Comb

In a capon, for instance, there is about three weeks in the life of the bird to be operated on, when it is just right for the operation, and that time is judged not by its, age, size or a certain time of the year, but by the physical condition of the bird absolutely as reflected by the development of the comb, or just before the comb starts to develop and turn red, and

when the organs to be removed are about the size of a bean or slightly larger than a good sized grain of wheat. The absence of the reproducing organs of the full grown capon are shown by the failure of the comb to develop and color up. On the other hand the first class breeding male has a large, but not beefy, well developed bright red comb, the body of which follows the curve of the head. If this is so in the male, and it is, why not the female? The hen's reproductive organ is the ovary and the health and strength of the ovary and its contents are reflected by the health and strength of her comb. I do not mean to say the larger and beefier the comb the healthier the ovary. No one would breed a Minorca comb on a Plymouth Rock for instance. The comb should be normal not abnormal in any way. It should follow the curve of the head and not be sunken in or "diched out" and look as if a piece had been bitten out of the top of it. This is the point—a weak, shallow comb proves a weak ovary and the inability of the bird to lay a large number of eggs even under the best condition and treatment. On the other hand the normal healthy comb proves the normal healthy ovary and the birds ability to lay. Not that the hen with the strong healthy ovary as reflected by the condition of the comb will surely lay lots of large eggs. Not at all, simply she has the ability to lay if handled correctly and it is up to the poultrymen to give her the food value to make eggs of. In this connection remember one thing that egg laying is a question of food value over and above what it takes to maintain bodily energy in the (Continued on page 313)



It was our privilege to pass upon the Buttercup classes at the last Chicago Coliseum Show and we were pleased to note among the exhibits several exceptionally fine specimens notably first prize cockerel, subject of the above illustration. This male also won shape and color special and judging from the many exhibits we have seen at a number of the largest shows, we consider him one of the best Buttercup males shown during the past season. He was one even shade of a particularly bright rich red throughout, in type as the illustration shows him to be, he is almost faultless. He also had an uncommonly good crown shaped comb set well on center of head. Mr. W. C. Brunig, Elkhart, Ind., is the fortunate owner of this specimen and in addition to the above honor he also won 1st prize pen, which contained another good male of the same stamp as the above specimen, and four excellent females with nice markings. Mr. Brunig seems to be on the right track in producing high class Buttercups and we hope that in the future he will produce many more of them.—A. O. Schilling.



Madison Square Garden

Poultry Show

New York City

DECEMBER 31, 1915
JANUARY 5, 1916



Like Past Exhibitions Held in the Famous Old Madison Square Garden the 27th Annual Exhibition of the New York Poultry and Pigeon Association Brought Together a Wonderful Collection of Poultry and Attracted Prominent Breeders to an Extent Not Approached By Any Other Poultry Exhibition

By WM. C. DENNY, Associate Editor

THE 27th Annual Exhibition of the New York Poultry and Pigeon Association, like its many predecessors, was held in America's most famous exhibition building, Madison Square Garden. It upheld traditions of the past by bringing together a wonderful collection of poultry and pigeons, and an attendance of prominent poultrymen that is unequalled at any other similar event held during the year. The fame of the "Garden" show extends throughout the world, and it is the ambition of exhibitors to win here, and of judges to be included in the list of those that place the awards. In the past it has been nothing uncommon for hundreds of dollars in entries to be returned to exhibitors for lack of floor space to accommodate exhibits for even the wonderful area of the main floor and the galleries at Madison Square Garden have not been sufficient floor space for past demands and the number of entries has been accordingly limited. This year Secretary Cleveland confined the entries to poultry and pigeons and eliminated the pet stock classes which gave considerable floor space.

There were numerous display cages in the aisles, in fact, we believe, more than ever before. These displays included both high class exhibition stock shown by prominent breeders, as well as a number of utility yards of a male and a number of females, or as in a number of cases, a collection of males. Some of the utility breeding pens contained females that were large in size and that appeared to be good, vigorous stock that should lay well, but, nevertheless, they were sadly lacking in Standard quality, both shape and color. They could not be expected to produce exhibition stock, nor stock that would produce exhibition birds. The males at the head of these utility breeding yards or pens as well as those containing all males were also very deficient in Standard qualities. In fact, they were a rather motley lot and looked as though they were fowls that had just been brought in off the range. The "utility White Leghorns", in particular, showed beefy combs that were twice too large, straight backs, high carried tails and some of them did not even stand well on their legs. If "Dan" Young, Rancoas Poultry Farm, Wilburtha Poultry Farm, Eugene Smith or any prominent breeder of White Leghorns, had specimens like these and would send them out for a two dollar bill, it is a ten to one shot that they would be promptly returned and a glorious kick put up by the purchaser for having had to pay express charges.

Government Displays

One of the features of the show was the extensive representation made by the U. S. Government and the New York, New Jersey, and Connecticut Agricultural Colleges. The National Government display was in charge of Harry M. Lamon, who was ably assisted by Robert Slocum; Prof. James E. Rice and W. G. Krum represented New York State, while Prof. Harry Lewis, V. G. Aubrey and Willard B. Thompson were looking after the interests of New Jersey; W. F. Kirkpatrick and Roy E. Jones represented Connecticut. Visitors displayed a keen interest in the U. S. Government display which included models of poultry buildings, poultry appliances, and selected specimens of the varieties of poultry kept on the Gov-

ernment Poultry Farm at Beltsville, Md. It was a surprise to many of the visitors to learn that Uncle Sam was a producer of poultry. The exhibits of the agricultural colleges was in the hall where the cat show has been benched in former years. This room was also arranged as a lecture hall to seat an audience of six to seven hundred people and here lectures were given by various Government experts. These lectures started at 10:30 in the morning and continued without interruption, excepting the necessary time for meals until 9:30 P. M. The public took an active part in these lectures. Practically every seat in the hall was filled while they were in progress. Motion pictures, taken at the United States Government Poultry Farm and at Dictograph Poultry Farm, West Nyack, N. Y., were a part of each day's program. No longer is there any doubt about the desire on the part of those who visit poultry shows to see something more than the poultry exhibits and the displays of appliances manufactured for poultrymen. They are hungry for information and the poultry associations that provide it are certain to make their exhibitions more helpful and consequently, more successful.

Another feature was a judging contest between teams representing the New York, New Jersey, Connecticut and Massachusetts Agricultural Colleges. Each team was made up of three young men who were taking a poultry course at these places. To test their knowledge and ability to decide on the value of Standard qualities in the popular breeds, five males and five females entered for competition, but not included among the winners, were selected by the judge of the class for the judging contest. The judge then decided the order in which these specimens ranked and gave the information to Harry Lamon of the Government Poultry Farm, who was referee of the contest. The New York State team won the contest, followed by New Jersey, Connecticut and Massachusetts in the order named. A New York student, Mr. A. L. Cox, won the individual contest with a score of 95.

Western Exhibitors Successful

More and more it is becoming the custom for central and far western breeders to compete for the honor and glory that goes with a winning at Madison Square Garden. For a number of years Williams Bros., Fullerton, Calif., breeders of S. C. Brown Leghorns, and R. A. Rowan, specialty breeder of White Faced Black Spanish, have sent representative exhibits to eastern shows. This year the California exhibits were added to by a Buff Orpington entry by J. J. Graves. From the central west came a host of exhibitors. B. H. Scranton of Rising Sun, and M. L. Barker of Thornton, came from Indiana, and Jas. H. Taylor from Woodstock, Ill. A. A. Carver of Seville; Rawnsley-Shields of Columbus; Aldrich Poultry Farm, Columbus; Houston & Hofius, So. Charleston; H. C. Sheppard, Berea, representing Ohio, while C. R. Baker sent on an exhibit from Abilene, Kansas. All of these breeders were successful and carried home with them a good share of the laurels awarded in the classes in which they were exhibitors.

The quality of the exhibits was remarkable. To say that it was better than ever before might provoke a challenge, but it is a fact that as each Madison Square Garden poultry show



One of the best classes of Golden Campines we have seen for a number of years was shown at the Annual Campine Club meet in conjunction with the recent Chicago Coliseum Show. Among this display was some of the very choicest to be found anywhere. First prize cockerel shown by Mr. E. T. Hatheway was one of the stars of this collection. This individual was one of the good type sort having an exceptionally well spread tail and unusually long sickles. His tail furnishings were beautifully barred to the end while his body and wings were marked regularly with clear distinct Golden bay marking. This male when mated to some of Mr. Matheways' choice females including his second prize pullet and a number of other equally promising pullets will, we feel confident produce chicks of the very highest quality. Golden Campines seem to be gaining in popularity and justly so for they are very vigorous and possess stamina and vitality and are known to be good layers. Here is hoping Mr. Hatheway produces many more like the beautiful cockerel, shown above, and his second prize pullet at the recent Campine Club meet.—A. O. Schilling.

is held, it seems as though the notch had been moved one peg higher, so far as the general average quality, is concerned, and this is as it should be. The production of each extraordinary specimen, even if only a mite better than the best bird shown before, if properly mated, should help in improving the quality of every variety. We do not wish to be included in the list of those who claim that the poultry shown twenty years ago was the equal of that that is being displayed today. That poultry breeders have not been marking time, just ask E. B. Thompson, D. W. Young, Maurice Delano, H. C. Sheppard, Frank McGrann, Lester Tompkins, and others who have been in the "thick of the fray" for the last quarter of a century. Without exception these men will tell you that each year it requires better quality, individually and collectively, to insure success for themselves and their customers. This is not only true about the Garden Show, but other leading poultry exhibitions as well.

According to the official catalogue, there were 649 exhibitors of poultry and pigeons.

Total number of chickens, including Bantams....	3764
Total number of Turkeys, Ducks and Geese....	222
Total number of Pigeons	983
Grand total entered for competition	4969

Entries of the More Popular Varieties

The classes in which there were fifteen or more fowls, including those in pens, were as follows:

Barred Plymouth Rocks	111
White Plymouth Rocks	144
Partridge Plymouth Rocks	73



Buff Plymouth Rocks	53
Columbian Plymouth Rocks	38
Silver Laced Wyandottes	126
Golden Wyandottes	30
White Wyandottes	122
Black Wyandottes	16
Buff Wyandottes	50
Partridge Wyandottes	29
Columbian Wyandottes	48
Silver Penciled Wyandottes	24
Dominiques	21
S. C. Rhode Island Reds	186
R. C. Rhode Island Reds	108
Light Brahmas	100
Dark Brahmas	30
Buff Cochins	20
Partridge Cochins	24
Black Langshans	46
S. S. Brown Leghorns	67
S. C. White Leghorns	156
S. C. Buff Leghorns	96
S. C. Black Leghorns	19
R. C. Brown Leghorns	16
R. C. White Leghorns	16
S. C. Black Minorcas	131
White Faced Black Sanish	15
Blue Andalusians	47
S. C. Anconas	100
R. C. Anconas	41
Silver Campines	64
Golden Campines	19
S. C. Buff Orpingtons	134
S. C. Black Orpingtons	32
S. C. White Orpingtons	106

(Continued on page 318)



Longfield Poultry Farms, D. K. Williamson, Prop. Bluffton, Ind., seems to have gained a stronger hold than ever on the Rose Comb Red fancy by their wonderful winnings at the recent Chicago Coliseum Show, where they were awarded 1st old pen and 1st and 5th young pens in strong classes of the choicest quality, shown by some of the best specialists in this country. In addition they also won 1st prize cock in the single class, 2nd and 4th hen, 2nd pullet. The male shown in the above illustration headed the first prize old pen and in many ways he resembled Mr. Williamson's old favorite, the Sweepstakes Champion at Chicago, one year ago and also the winner of first prize, shape and color special this season. The above male the son of this sweepstakes champion and no doubt there are many others in Mr. Williamson's display which trace their blood lines back to this grand specimen. Longfield Rose Comb Reds have made a wonderful reputation and judging from the quality shown and their past records they are in the arena for some time to come and no doubt will win many prizes for Mr. Williamson as well as his customers.—A. O. Schilling.




FIRST PRIZE PEN COLUMBIAN WYANDOTTES
MADISON SQUARE GARDEN NEW YORK 1915-16
BRED AND OWNED BY
TRENTON JUNCTION, N. J.
WILBURTHA POULTRY FARMS


Wilburtha Poultry Farms, Trenton Junction, N. J., have been one of the most consistent winners in Columbian Wyandottes at the largest eastern and middle west shows, in this country. Their show records prove this statement. We have seen their exhibits at such shows as Chicago Coliseum, Buffalo, Palace New York, Madison Square Garden and Boston and in each instance we have found them remarkable in many ways. Columbian Wyandottes have improved a great deal during the past three or four years and we are pleased to see breeders producing color and marking in this unique color type that is approaching and in many cases equal to the old Light Brahma. We recall several specimens shown by Wilburtha Poultry Farms that were simply wonderful in neck and saddle lacing, and wings that may be considered almost perfect in color. Not only have they produced this beautiful striping and wing color, but the white surface color of the males is being purified until now we find them almost as white as can be expected in any breed. The above pen was awarded first prize at the recent Garden Show and in this group we found specimens that are in a class with the choice quality previously mentioned. Mr. C. J. Fisk, Proprietor of Wilburtha Poultry Farms, is an ardent admirer of the Columbian Wyandottes as well as Columbian Rocks. He also specializes in Buff and White Leghorns and in these four varieties it has made a wonderful reputation in the leading shows. Mr. Fisk is the kind of man the poultry business needs to put it on a firm and reliable basis. This is evident by the fact that he has made Wilburtha Poultry Farms one of the best known of its kind in this country.—A. O. Schilling.

Poultry Work at the Missouri Agricultural College

University of Missouri One of the Country's Greatest Educational Institutions. Poultry Department of Recent Organization is Under the Direction of Professor H. L. Kempster and Capable Assistants. Highly Creditable Work Being Done

BY HOMER W. JACKSON

TO no educational institution that I have visited has the term "pursuit of knowledge" appeared to be so applicable as to the University of Missouri, at Columbia. While many of the buildings are most effectively grouped about a small quadrangle, others are scattered about the city so that the visitor has no means of knowing when he has seen them all and needs a guide to find any in which he is especially interested.

The University of Missouri is one of the great educational institutions of the United States, with an annual enrollment of 4200 students, but the Poultry Department is of comparatively recent organization.

Department Well Housed

I found the department comfortably, though not spaciouly, housed as to offices and classrooms in what was formerly the Dairy Building. The poultry plant is located perhaps half a mile from this building and consists of five acres, not too well adapted to the purpose and hemmed in by city lots to an extent which would appear to make it necessary to regard the present location as only temporary.

The poultry plant consists of a fifteen-pen open-front laying house with feed house attached. This house is shown herewith. In addition, several smaller houses are used, including two or three of the Tolman type, which are considered especially satisfactory under Missouri conditions; also, a new style of open-front house which is creating a good deal of interest.

Professor H. L. Kempster, who is head of the department, is a graduate of Michigan Agricultural College where he studied poultry husbandry under Professor Halpin and afterward had charge of the Department. He is regarded as one of the strongest young men in college poultry work and evidently is highly thought of by his faculty colleagues and by the students. I believe that he will build up the poultry department into one of national importance as soon as he is given adequate funds. Certainly the work that he has done up to the present time in the face of insufficient appropriations has been highly creditable. He is fortunate in having for assistant Mr. Rucker, an enthusiastic investigator and earnest student.

An Unusual Distinction

Missouri has the unusual distinction of being the only state to have an independent Poultry Experiment Station, in no manner connected with the State University or Agricultural

College. This is known the country over as "The Mountain Grove Station." Concerning the organization of this unique institution and the work done there, I shall have more to say at another time. I refer to it now simply to record my conviction that the State of Missouri might, without doing less for Mountain Grove, do a good deal more for the poultry department at the University and would make no mistake in so doing. The State that makes a biennial appropriation of \$82,000 to Mountain Grove is not awake to its opportunities when it grants a beggarly \$1000 to the Poultry Department at Columbia.

I do not mean to convey the impression that the Department has nothing but this meager appropriation from the state with which to work. In addition, it receives a small government fund, a small appropriation from the University (which represents sacrifices on the part of other departments) and has the money realized from sales from the poultry plant. However, all these funds together amount to but a very small sum and are entirely inadequate to the maintenance of such a department as ought to be established there.

The work that is being done at Mountain Grove station is producing important results for the poultry interests of Missouri and for the nation as well, but the department at Columbia also has opportunities—opportunities that Mountain Grove does not have and cannot have except at great cost.

Whether the responsibility for this condition is up to the Legislature or to the trustees or directing officers of the university, I do not know, but I believe that Missouri poultrymen can well afford to give some earnest attention to the situation and try to ascertain the responsibility for it and provide suitable correctives.

What the Poultry Department is Doing

The annual enrollment in the poultry courses at Columbia is about 300, but with this department properly equipped, much larger numbers could be given instruction, to the permanent benefit of the industry. Courses in marketing of poultry products, farm poultry management, poultry judging, incubating and brooding practice, are now given regularly, in addition to various short courses.

Another line of work which should prove of general value is what is known as the Farm Demonstration Project. This consists in interesting poultrymen in (Continued on Page 328)



FIFTEEN PEN LAYING HOUSE ON POULTRY PLANT OF UNIVERSITY OF MISSOURI

This house is provided with a concrete walk in front, so that visitors may view the pens, mainly used in experiments, without disturbing the birds. The hens have access to yards in front through tunnels under the walk. Photo was taken before yard fences were built, also before feed house was constructed. An interior view showing arrangements of pens is shown on page 307.



Twentieth Annual Exhibition of the Great Boston Poultry Association Witnessed the Assembling of one of the Largest Entries Ever Brought Together in the Famous Mechanics Building. Many Classes Larger Than Last Year. Special Interest in the Hamburg and Waterfowl Exhibits. Plenty of Good Fellowship in Evidence As Usual

By WM. O. JENNINGS, Special Representative

FOR twenty consecutive years there has been held annually in Boston, Mass., one of America's leading Poultry Shows. Yes, way back in the olden days when Messrs. Sharpe and Roberts were the respective secretaries, Boston held each year, one of the leading poultry events of this continent. Twenty years has past swiftly until now the competitive interest once displayed by such men as I. K. Felch and Philander Williams with their old time exhibits of Light Brahmas is spoken of by the coming generation who are to fill the historical old Mechanics Building with the finest of featherdom for the twenty years to come, only as history.

To the credit of such sterling pioneers as Messrs. Sharpe, Felch, Williams, Hale, Seeley and Mitchell we owe much of our present day success, the foundations laid by such men as these combined with the efforts of the present capable hustling secretary W. B. Ather-ton has developed an annual poultry show in Boston that acknowledges no superior. The catalogue showed all told 6,521 entries as against 5,853 of last year and 6,774 in 1914, the 1915 entry being somewhat reduced on account of the hoof and mouth disease quarantines. The 6,521 entries this year represented over 7,000 specimens of poultry, pigeons, waterfowl and pet stock. It would seem almost impossible to figure out how any larger show could be cooped and handled in the Mechanics Building than the one just held. The main hall which contains the bulk of poultry entries except Hamburgs and Polish was crowded to its capacity.

The spacious stage where the Bantams were shown was also completely taken up while the Pigeon department extended and narrowed its aisles to accommodate the increased numbers and upstairs in the balcony where the waterfowl club held its annual meet the Ducks and Geese were counted in increasing numbers taking the entire space in the balcony with the exception of

the part used for pet stock, which also made a good showing. The size and convenience of the Mechanics Building as a show hall can be easily appreciated when we stop to consider that the enormous exhibit of this year was handled almost entirely with single tier cooping. The educational features of the Boston Show help greatly in bringing out the record crowds

that through the building throughout the week, visitors attending the show will see exhibited and demonstrated poultry supplies and appliances of almost every sort from a drinking fountain to a model poultry house and equipment. The complete number of entries in each department were as follows:

Single entries exhibition	
Poultry	2084
Single entries exhibition	
Turkeys	49
Single entries exhibition	
Ducks	256
Single entries exhibition	
Geese	183
Single entries exhibition	
Bantams	428
Single entries Utility	
Poultry	172
Single entries Utility	
Ducks	6
Single entries Utility	
Geese	1
Exhibition Pens Poultry..	138
Exhibition Pens Turkeys..	2
Exhibition Pens Ducks...	11
Exhibition Pens Geese....	1
Exhibition Pens Bantams..	1
Pigeons	2441
Displays	30
Ornamental Fowls	4
Pet Stock.....	305 entries
Dressed Poultry and Eggs	
.....	172 entries

The judging commenced early and was finished in good time very few if any complaints were heard, most everyone seemed to be well satisfied with the work of the following well-known judges:

Poultry Judges

W. M. Anderson, Saratoga Springs, N. Y.—Buff, S. C. Brown and Blue Leghorns and Spanish.

Levi A. Ayres, Granville, N. Y.—Columbian Plymouth Rocks.



SINGLE COMB WHITE LEGHORN COCK
BRED AND OWNED BY
MOORE BROS. MOSCOW, N.Y.

Moore Bros., Moscow, N. Y., have been extensive specialists in high class exhibition White Leghorns for many years and are producing some of the best of this worthy breed in the country today. The subject of the above picture is one of Mr. Moore's reliable breeders and has produced many winners during the past two seasons. This season he sired the first pullet at the Greater Buffalo Show, also a number of the females in the second prize pen. He is producing cockerels that have a wonderful turned body with a saddle that possesses an abundance of feather which is so important to form that desired beautiful concave sweep from that juncture of back and tail. He has a good formed body, nicely developed shoulders and full rounded breast, standing well apart on his legs and a good medium sized neatly serrated comb. These are all qualities that play an important part in the selection of desirable breeding specimens. Moore Bros., mate each season some of the most select and choice pens that it is possible to mate up and they are in a position to supply stock and eggs of the highest quality.—A. O. Schilling.

I. W. Bean, South Braintree, Mass.—Rhode Island Reds.
W. H. Congdon, Oaklawn, R. I.—Ornamental Bantams
Charles D. Cleveland, Eatontown, N. J.—Columbian, Silver
Penciled and Blue Wyandottes.

J. M. Cutting, South Braintree, Mass.—Turkeys.
J. H. Drevstedt, Buffalo, N. Y.—Hamburgs.
F. H. Davey, Vineyard Haven, Mass.—Silver, Partridge and
Golden Wyandottes.

James Glasgow, Mahwah, N. J.—White Wyandottes.
Herman Hoke, Spring Grove, Pa.—Javas, Creve Coeur,
Thoroughbred Games, La Fleche and Red Caps.

J. P. Keating, Westboro, Mass.—Light Brahmas.
John Kriner, Stettlersville,
Pa.—Waterfowl.

William G. Minnich, Carlisle,
Pa.—Cornish, Games and Game
Bantams.

Mrs. W. P. Masten, Pleasant
Valley, N. Y.—Polish.

Haldie Nicholson, Leo-
minster, Mass.—White Plym-
outh Rocks and Sussex.

Richard Oke, London, Ont.—
Orpingtons and Dorkings.

Frank L. Platt, Swanton,
Ohio—Campines, Favorolles and
Buttercups.

F. W. Rogers, Brockton,
Mass.—White, R. C. Brown and
Silver Leghorns and Partridge
Plymouth Rocks.

Miss O. E. Remsen, Anna-
polis, Md.—Minorcas, Anconas
and Andalusians.

H. P. Schwab, Irondequoit,
N. Y.—Silver Penciled Plym-
outh Rocks and Houdans.

Charles H. Shaylor, Lee,
Mass.—Barred Plymouth Rocks.

A. O. Schilling, Buffalo, N.
Y.—Buff Plymouth Rocks and
Buff Wyandottes.

Eugene Sites, Dark Bra-
mas, Buckeyes, Malyas, Suma-
tras and Lakenvelders.

George W. Weed, East Lee,
Mass.—Cochins, Black Wyan-
dottes, Black Leghorns and
American Dominiques.

Prof. J. C. Graham, Amherst,
Mass.—Utility Fowl.

George Fletcher, Belmont,
Mass.—Dressed poultry and
eggs.

Pigeon Judges

Arthur A. Burnett, Luton,
Beds, England, Jacobins.

George A. Burnham, Clifton-
dale, Mass.—Fantails.

I. B. Brennaman, Lebanon,
Pa.—Orientals.

George Feather, Dorchester,
Mass.—Tiplers, Nuns, Hel-
mets, Cunulets, Trumpeters,
Carriers, Hen and miscellane-
ous.

Walter A. Hersey, Wellsley
Hills, Mass.—Exhibition Hom-
ers.

A. M. Ingram, Milford, N. H.—Swallows, Parlor Tumblers,
Barbs, Archangels, Pouters and Norwich Croppers.

Thomas M. Reval, Philadelphia, Pa.—Record Homers.

C. E. Twombly, Medford, Mass.—Carneaux, Dragoons,
Show Homers, and Frillbacks.

E. B. Ulrich, Reading, Pa.—Magpies, Owls and Turbits.

E. R. Page, Pigmy Pouters.

Pet Stock

W. H. Tabor, Long Branch, N. J.

Special Features

Tuesday night was banquet night as usual, this event took

place at the Copley Square Hotel banquet hall and was well attended. It was estimated that over 200 were present. The affair was opened by a short talk by President John Lowell. Mr. Atherton acted as toast master, calling on several distinguished guests for brief remarks, some of which were quite personal and touching. All present were pleased to hear from our long time friend W. H. Card through a good letter addressed to his fellow-breeders, which was read by the toast master Mr. Atherton. It was planned on this occasion to present Secretary Atherton with a beautiful engraved gold watch, but for some reason unknown the engraving was not completed in time so that it had to be presented later at the waterfowl club dinner.

An unusually large and attractive exhibit of utility and dressed poultry and eggs were seen in the basement of the main hall. This department was in charge of Prof. J. C. Graham. We are glad to see this branch of the Boston show increasing and to learn there are Utility Ducks and Geese. On Thursday afternoon the waterfowl club held its annual dinner which was largely attended and from the reports we judge there must have been a very lively and enjoyable time. The Hamburg club was also much in evidence throughout the week and talk about a crowd of real sportsmen, you can't beat 'em.

With the exception of a light snow fall and a couple days of snappy coldness the weather man was quite generous. The attendance was large as it usually is, the average for the week being a trifle over last year. Summing everything up to one grand total it can be easily said without fear of contradiction that Boston had the largest attendance and largest number of entries of any show held on the American continent this year.

There are many features about the Boston show that are not seen in any other show, take for instance the Hamburg exhibit, both quality and quantity, where can its equal be found and then too the waterfowl display with its hundreds of fine ducks and geese. These are facts regarding the Boston Show that we have never found elsewhere in our years of attendance to America's leading shows.

The Classes and Winners

LIGHT BRAHMAS a large and splendid display having a total entry of 16 cocks, 20 hens, 31 cockerels, 27 pullets, 12 pens, 142 birds all told as compared

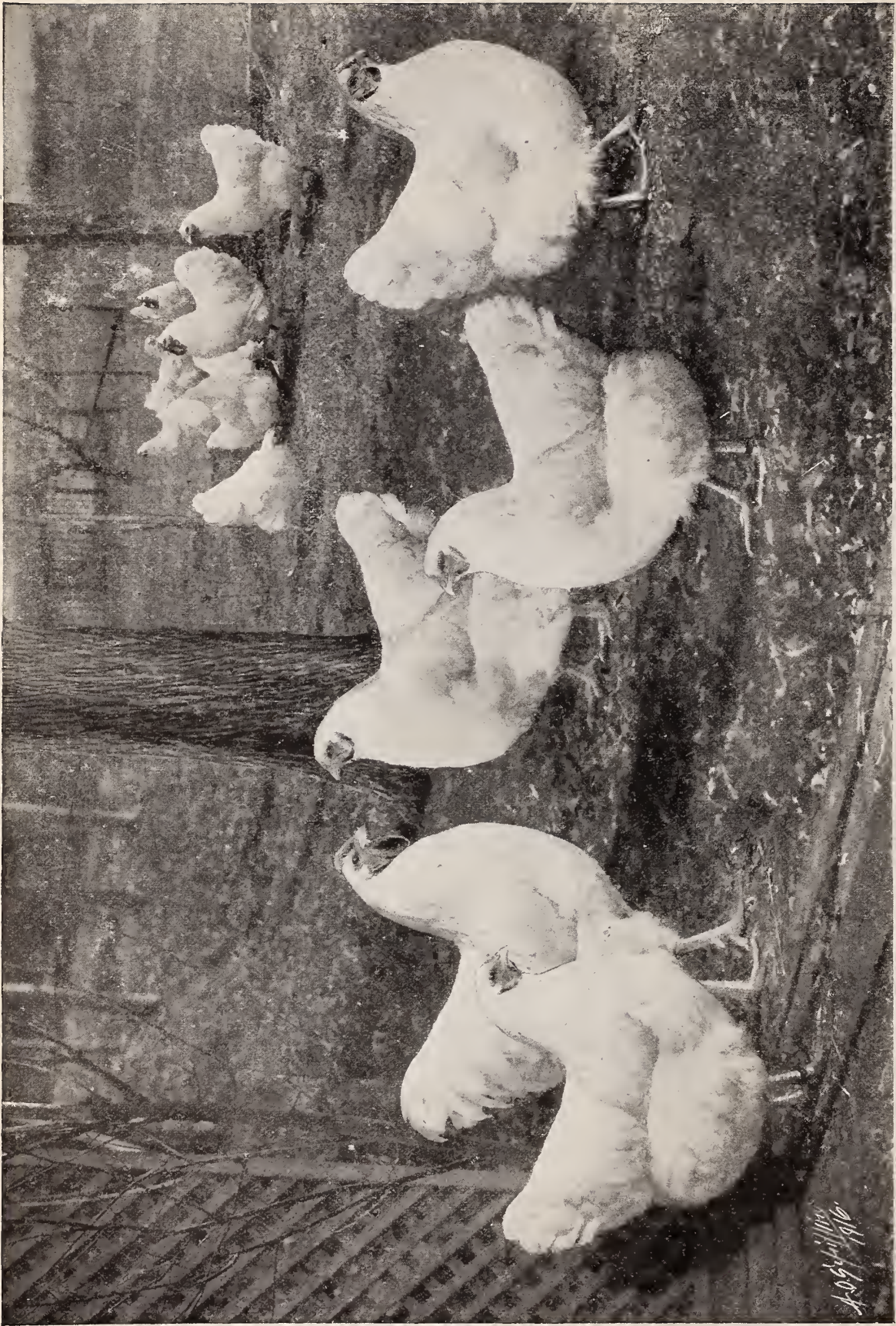
to 96 last year. At most of the large winter shows a big increase has been noticed in this useful and handsome breed. W. A. Hendrickson, Milton, Mass., was a big winner in this variety having to his credit 1st cock, 1st and 4th hen, 5th pullet and 1st pen. A win of this kind out of 142 birds competing is one to be proud of. Mr. Hendrickson's 1st prize cock was extra good in all sections, good type, grand size, beautiful hackle, strong in wing and tail and a back entirely free from smut. Next in line of winners came Harvey C. Wood, Bound Brook, N. J., with 2nd cock, 5th hen, 1st and 3rd pullet and 2nd and 6th pen.

Mr. Woods 1st pullet was one of (Continued on page 296)



SECOND PRIZE WHITE ORPINGTON CK'L
PALACE NEW YORK SHOW DEC. 1915
BRED AND OWNED BY
OWEN FARMS VINEYARD HAVEN, MASS.

Owen Farms, Vineyard Haven, Mass., made a wonderful display in White Orpingtons at the recent New York Palace Show and practically swept the decks of all honors, winning 1-2-4 cock, 1-2-3-5 hen, 1-2-4 cockerel, 1-5 pullet, 1-2-3 pens. The quality shown in this wonderful team was something remarkable. There were males and females that could be selected as models approaching the modern ideals very closely. The fact is first prize pullet in our opinion was one of the best we have seen during the past season and was hard to find fault with. Among the cocks and hens there were equally high grade specimens and it is really remarkable when one considers the number of birds shown by Owens Farms, and the number of birds sold to customers for exhibition, which gives a fine idea of the number of high class specimens produced annually by them. The above cockerel was winner of second prize and was considered an exceptionally good good one in type and form, while his color was almost immaculate for whiteness.—A. O. Schilling.



SECOND PRIZE PEN WHITE WYANDOTTES AT GREATER BUFFALO SHOW NOV. 1915
 BRED AND OWNED BY MARSHALL & MARSHALL NIAGARA FALLS, ONT.

"Niagadot," Wyandottes are becoming more renowned from year to year among Canadian breeders as a strain of high class exhibition White Wyandottes. They have won their share of prizes at some of America's best shows, and this year was no exception. The above pen was awarded second honors at the recent Greater Buffalo Poultry Show, where the National White Wyandotte Club held its annual meeting. We have visited Mr. Marshall's breeding yards several times and have noted that he is a careful student of Wyandotte type and has produced some choice winners. His yards at Niagara Falls, Ont., for the coming season will contain numerous select breeding pens from which he will supply eggs in season and no doubt his customers will also benefit by the wisdom of his selections in matings as they have in the past.—A. O. Schilling.

1-5-1916

The Sale of Eggs for Hatching



The Hatching Eggs Trade Has Many Disagreeable Features and Numerous Complaints are Annually Received by Those Shipping Eggs. Fault Not Always on the Part of the Breeder as He Is Often Imposed Upon by the Purchaser

By W. A. WOLFORD, Associate Editor

WE are again at the threshold of the breeding season and poultry raisers, both large and small, from coast to coast, are preparing for the eggs for hatching season. Many have already sent out mating lists and are booking orders for future or immediate delivery.

Now I dare say that there is no branch or part of the poultry industry that is the cause of so much complaint and controversy between breeder and customer as this same eggs for hatching branch. Some breeders are none too careful in making selection of eggs to be shipped to customers at distant points; others are careless in packing, and use poor fertility. Any or all of these things cause justifiable complaints. These complaints are not only annoying to the breeder but are also discouraging to the customer who has put up his hard earned dollars and looks forward to a good hatch.

Breeders Not Always at Fault

The fault does not always rest with the breeder, nor are all complaints justifiable. The most careful and successful breeders in the business receive their share and oftentimes are accused of all kinds of trickery and the customer in making complaint refers to them in very uncomplimentary terms. Generally speaking the average purchaser of eggs for hatching especially the novice, expects a little too much and often in writing of his disappointment, instead of doing so in a gentlemanly way, resorts to abuse.

Altogether too many purchasers of eggs for hatching appear to be looking for something for nothing and purposely report bad results for the purpose of getting a duplicate order, and we regret to say that the scheme works to his satisfaction altogether too often. This brings to mind an experience of a well known breeder who shipped a setting of eggs to an Ohio customer for which he received five dollars. In due time a report of a very unsatisfactory hatch with a request to duplicate the order gratis came to hand. Another setting of eggs was forwarded and this time the breeder assured himself that the fertility was running high. In due course of time a second complaint was received and another setting forwarded making three altogether. This either satisfied the customer or his nerve failed him and he did not ask for any more.

Locating the Trouble

As the breeder in question had been getting good hatches from the pens from which the eggs were shipped, this experience was somewhat of a puzzle to him. To use a common expression it "stuck in his crop" and caused him many unpleasant thoughts. Finally he hit upon a plan of having a friend who lived near to the customer call on him on the pretense of being interested in that particular breed of chickens and ascertain if possible what results he had secured from the eggs.

The party in question not suspecting the motive of the visit

was very enthusiastic about his chicks and proudly displayed a flock of some thirty odd and told the caller of whom he purchased the eggs and how well they had hatched. In due time this knowledge was conveyed to the breeder, who had furnished three settings for the price of one and he immediately wrote the customer enclosing a bill for the two extra settings and mentioning something to the effect that the matter would be referred to the Postal Authorities if settlement was not quickly forthcoming. Needless to say the purchaser of the eggs realized his position and made prompt settlement.

We could relate several similar instances but believe the above illustration is sufficient to show how the breeder is too often imposed upon. As far as our observation goes a majority of breeders promptly replace a setting of eggs when a report of a poor hatch is received. The theory being that a satisfied customer is a valuable asset and that it is better to gain satisfaction by sending a second setting than to have a dissatisfied and disgusted customer.

Many Causes for Poor Hatches

To be sure many reports of poor hatches are made in good faith but as there is usually several hundred miles between the breeder and customer there is no way of selecting the honest complaint from the dishonest. Therefore where the breeder guarantees a good hatch without imposing any conditions we believe his only course is to replace, when a complaint is received.

The fault however, is not always with the purchaser as there are many contributing causes that are favorable to an unsatisfactory hatch. Among them (Continued on page 301)



Palace King
FIRST PRIZE S. C. RHODE ISLAND RED COCKEREL
N. Y. PALACE SHOW DEC. 1915 BRED AND OWNED BY
HOUCK AND ALT BUFFALO, N. Y.

Llenroc Reds as bred by Houck & Alt, 87 Fuller St., Buffalo, N. Y., have been making a name for themselves and it is interesting and quite remarkable to learn that many of the winners at some of the best shows of this country today are products of this strain. We have personal knowledge that numerous cockerels bred by this firm have carried off the highest honors at many of the best shows both east and west. At the Panama-Pacific Show, Houck & Alt exhibited two birds winning 2nd prize cockerel and 6th pullet. At the recent Palace Show they exhibited one bird winning 1st prize cockerel. Their record at the recent New York State Fair, was as usual a good one, and included first prize cockerel as well as numerous other high honors which gave them best display. The high honors this line of males have been winning for Houck & Alt and also in the hands of their customers places the Llenroc strain of S. C. Reds at the very top of the ladder as an exhibition strain of superior quality. The above illustration represents first prize cockerel at the recent New York Palace Show. He was a bird possessing remarkable lustre and purity of color. He was one of the big, long rangled sort showing plenty of stamina and vigor which seems to be a characteristic of this strain of winning Reds.—A. O. Schilling.

AMERICAN POULTRY WORLD



DEVOTED TO THE
Upbuilding of the Poultry Industry
in All Branches

GRANT M. CURTIS, Editor
WM. C. DENNY, Associate Editor
W. A. WOLFORD, Associate Editor
ARTHUR O. SCHILLING, Artist

CONTRIBUTORS: The best informed and most
reliable men and women at work today in the
broad field of Poultry Culture and advancement

EDITORIALS

GENERAL BUSINESS IMPROVING RAPIDLY—ALSO THE STANDARD- BRED POULTRY BUSINESS

REPORTS continue to come to hand of a very welcome improvement in general business throughout the United States, also of an active, country-wide increase in the demand for standard-bred fowl of the numerous popular varieties.

At the Boston show, January 14-15, editor of A. P. W. met several well-known poultrymen who reported a marked improvement recently in the sale of standard-bred fowl, also in the demand for eggs for hatching and day-old chicks, as indicated by many earnest inquiries and the booking of numerous advance orders.

Mr. Davies, who is connected with the Pittsfield Poultry Farms Company, Skowhegan, Maine and Holliston, Mass., extensive dealers in high grade utility day-old chicks of the popular varieties, told us that in a single day at this show they booked orders for 17,000 day-old chicks, in moderate sized lots—which was a record day for this large and well-managed establishment.

Pittsfield Poultry Farms Company now have a hatching capacity of 180,000 eggs at one sitting. Believing that they are to enjoy an active demand, they have made all preparations for the biggest season in the history of the establishment.

ONE of the most interesting interviews we had at Boston was with J. H. Lord, proprietor of the Everlay Farm, Methuen, Mass., another well-conducted New England plant that does an extensive business in the sale of day-old chicks. For example, they advertise 5,000 a week ready for delivery in February, 10,000 a week in March, 12,000 a week in April and 12,000 a week during the month of May. During our talk Mr. Lord asked this significant question:

"What is the matter with the two poultry papers in which you are interested? Have you doubled the circulation here lately?"

We replied in the negative and asked Mr. Lord what he had in mind. Said he:

"The last two weeks or such a matter we have been much surprised by the remarkable increase in the number of inquiries that have come to hand. One would think that the poultry papers in which we are advertising had either doubled their circulation all of a sudden or had flooded the country with copies out of all proportion to past circulation. The point is that our mail has doubled and trebled here lately, much to our satisfaction."

This noteworthy increase in the mail received by Everlay Farm, no doubt may be accepted as proof, first, that the holidays are over and the general public is now looking forward to the activities of 1916, including "spring work", so to speak; second, that the general, country-wide improvement in business of all kinds is resulting in a free circulation of money, so that men and women who are interested in poultry-keeping for profit, also in the production of choice standard-bred fowl, can gratify their desires in this direction.

—o—

ANOTHER illustration of the same nature occurred at the Boston show: Writer on Friday evening, January 14th, visited with Maurice F. Delano, proprietor of Owen Farms, extensive breeders of high-class, standard quality Rhode Island Reds, White Plymouth Rocks, Buff and White Orpingtons, White Wyandottes and Single Comb Leghorns. At this time it was Mr. Delano's intention to remain at the Boston show Saturday, the closing day, for the purpose of making sales and looking after the cooping of his prize-winners for the homeward journey.

However, we met him at the hotel early Saturday morning, at which time he informed us that he had received a telephone message from his wife, suggesting that he return home at once and asking him to bring a competent stenographer with him without fail, owing to the fact that during the week the mail of Owen Farms in the form of inquiries and orders had more than doubled, as

compared with any preceding week for the season of 1915-1916. Mr. Delano acted on this advice, though he was reluctant to leave the Boston show at that time.

November last proved to be the biggest month in the form of cash sales Owen Farms has enjoyed since Mr. Delano, four or five years ago, bought this great poultry establishment from Mr. Wm. Barry Owen, since deceased. His cash sales for that month exceeds \$8,000. Moreover, last fall—including the first half of December—brought to hand some of the most satisfactory orders Mr. Delano has received since he has been the proprietor of Owen Farms. Here are three examples:

For ten White Rocks of exhibition quality he received \$1,000; for a string of Buff Orpingtons he was paid \$1,500 in cash, and for another string of White Rocks, including some choice exhibition birds and a fine lot of breeders, he was paid \$2,800. In every case these orders came to hand from men who previously had bought of Mr. Delano as the proprietor of Owen Farms. Said Mr. Delano, in substance:

"These repeat orders are especially welcome. They are one of the most encouraging elements in the business. They are proof of the success of the policy of Owen Farms, as this policy was inaugurated by Mr. Owen and as it has been faithfully carried out by the present management. Mr. Owen's belief was that this farm should be conducted on the theory that we must make loyal friends in every community. To do this we must give satisfaction to all customers, they to be the judge. In doing this we look ahead five, ten or twenty years. A plant like ours cannot be a success one year and then go out of business. It must meet with continued success year after year.

"The United States is a big country, with a large and enterprising population. North of us is Canada, inhabited by people very much like ourselves. What we want are FRIENDS IN EVERY POULTRY COMMUNITY—in every local poultry association, for example. To get these friends we must treat them right—must give our customers full value for their money, in fact, must satisfy them personally. If this is done they will advertise our stock, also our treatment of them as customers. If our reputation is of this kind in every poultry community and we can maintain this reputation year after year, you can appreciate what a valuable asset it will become. That is our selling plan and we are making good at it."

The foregoing statements do not represent mere hot air! On the contrary, editor of A. P. W. is in a position to KNOW that Owen Farms conduct their business on the basis outlined by Mr. Delano. They did so under the ownership of Wm. Barry Owen and they are continuing to do so under the owner-

ship and personal management of Maurice F. Delano. Mr. Delano is entitled to full credit for this business policy, and it is exactly the right foundation for permanent success. Owen Farms today represent the largest standard-bred poultry establishment in the New World, to the best, of our knowledge, and it is fortunate, in behalf of the standard-bred industry that this truly great plant is in such good hands.

AT Boston we talked also with A. C. Hawkins, Lancaster, Mass., well known breeder of the Royal Blue Strain of Barred Plymouth Rocks, and with Lester Tompkins, Concord, Mass., specialty breeder of S. C. and R. C. Rhode Island Reds. Both stated that inquiries and sales have been good since last fall, especially so during December. They were looking forward to an active demand for choice breeders and a demand for eggs for hatching that will test their supply from choice matings. Furthermore, the inquiries here lately have been of an improved character, so they stated. In other words, the requests have been for high-priced stock, meaning better quality, also for prices on hatching eggs from their best matings.

At this exhibition we talked also with several incubator and poultry supply men. Without exception they reported renewed interest and larger sales. They are looking forward to a satisfactory business the balance of this winter and throughout the coming spring and early summer. They dwelt on the fact that poultry foods are now moderate in price, as compared with a year ago; that the demand for fresh eggs is again normal, at profitable prices; that the foot and mouth disease quarantine has been eliminated in all sections of the country, and that the prospects, therefore, are bright for a steadily increasing demand for all kinds of poultry and poultry products, both for table use and for breeding purposes, also for poultry equipment, including incubators, brooding devices, poultry food, etc.

Our daily mail here lately also has contained numerous favorable reports of the same kind. As an example, H. W. Halbach, proprietor of Riverdale Farm, Waterford, Wis., informs us that he is having one of the best seasons in the history of his career as a poultrymen. Really this was to have been expected, provided even a fair demand exists for standard quality White Plymouth Rocks, because for a number of years Mr. Halbach has proved that he owns one of the best line-bred strains of White Rocks in America. Repeatedly he has met all comers at the Coliseum show, Chicago,

and has won the lion's share of the much coveted ribbons. At the recent Chicago show, December 10-15, 1915, as an illustration, he won as follows:—1, 2, 3 cock; 1, 2, 3, 5 hen; 1, 2, 3, 4, 5 pullet; 2, 3, 4 cockerel; 1 and 2 old pen and 1 and 3 young pen; champion male and silver cup for champion female.

—o—

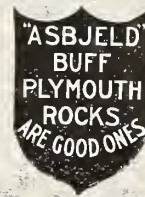
Following is a brief quotation from a letter of date January 15th from F. M. Prescott proprietor of Riverdale Poultry Farm, Riverdale, N. J., breeder of prize-winning Light and Dark Brahmans, S. C. and R. C. Rhode Island Reds, White Wyandottes, Barred Plymouth Rocks and S. C. White and Brown Leghorns:—

"I don't agree with you or any one else that the poultry business has been backward the last two years. I did 50 per cent. more business in 1915 than in 1914, and 1916 has started big, with sales in the first fifteen days equal to the entire month of 1915. The poultry business, so it seems to me, was never better and those who use modern business methods, the same as any successful mail order house does, will not have any cause for complaint."

THE farmers of this fortunate country have now marketed the great bulk of two bumper crops, doing so at unexpectedly high prices. From the proceeds of the first bumper crop, that of 1914, they caught up with their floating indebtedness, including payment for literally tens of thousands of automobiles! Receipts for the second bumper crop reached their hands in large before the recent holidays and helped to swell the 1915

holiday trade far above the sales of 1913-1914. Reports of this kind have been numerous and reliable.

At present the American farmer can sell every four footed animal he is able to produce (dogs, rats, cats and mice excepted) also every bushel or pound of feeding stuff he can raise that is suitable for man or beast and he is selling these "farm products" at profitable



Chicago Winners

Selected and bred for superior egg production as well as for exhibition qualities. Eggs from pedigreed matings \$5.00 per 15, \$9.00 per 30. 8 strong healthy chicks guaranteed from each setting.

I. M. ASBJELD

R. 4, Box 43, Alcester, So. Dakota



RED SUSSEX

Mating list ready. Send for a copy, and get the description of my pens and prices. You might as well send to headquarters and it will pay you to look into this breed of merit.

F. L. Platt, Swanton, Ohio

A. A. CARVER'S

1916 Mating List Out

Chicago, Coliseum winners, S. C. Reds 1-2 pens, Red Sussex 1-3 pens, 2 hen, 5 pullets. Great Allentown Fair, Red Sussex 1 cockerel, 1 hen, 1 pullet. Ohio State Fair, S. C. Reds 1 pen, 1-3 cock, 1 cockerel, 1 pullet; Red Sussex 1 young pen, 1 old pen, 1 hen, 1 pullet, 3 cock; S. Sussex 1 pen, 1 cockerel, 1 hen, 2 cock, 2 pullet. Great Forest City Fair, S. C. Reds 1-2 cockerel, 1-3 cock, 1 pen; Red Sussex 1 cock, 1 cockerel, 1 hen, 1 pullet. Our customers report heavy winnings also. All above winnings made this season. Will it not pay you to come to the producer of stand-out winners.

CARVER'S RED FARM

Lock Box 200,

Seville, Ohio

S. C. BLACK
S. C. WHITE
SILVER

LEGHORNS

R. C. BROWN

R. C. WHITE

BLUE RIBBON WINNERS NEW YORK, BOSTON AND CHICAGO

Choice breeding and exhibition stock at reasonable prices. Eggs from choice matings \$2.00 to \$10.00 per setting. Baby chicks. If in search of the best in Leghorns you will eventually come to us, why not now? Descriptive mating list now ready. Satisfaction guaranteed in every transaction.

TURTLE POINT FARM,

W. H. MANNING, Owner

SARATOGA SPRINGS, N. Y.

W. M. ANDERSON, Manager

Halbach's White Plymouth Rocks

Gained the most complete victory ever chronicled in the arena of the recent COLISEUM CHICAGO SHOW. The Kings, the Monarch's and Rulers in the World of White Plymouth Rocks had marshalled the flower of their forces in battle array at this great show, yet the Halbach strain of White Rocks won every first prize in the entire show, except one, and they didn't stop there—they won every second prize, but one and every third but one. This GLORIOUS VICTORY means

YOU MUST HAVE THE HALBACH STRAIN TO WIN

Eggs from the best show pens ever mated at \$12, per 15, \$23 per 30, \$70 per 100. 300 cocks and cockerels at cut prices. Head your pen with one of our breeding trios perfectly mated that will start you with this great line at \$15, \$20, \$30, \$35, \$50. Order direct from this advertisement. Catalogue 20 cents.

H. W. HALBACH, Box 3, Dept. C, WATERFORD, WISC.



SECOND PRIZE WHITE ORPINGTON CKRL.
CHICAGO COLISEUM SHOW DEC. 1915
BRED AND OWNED BY
F. M. GENSCHE OMRO, WIS.

In a class of 27 cockerels shown at the recent Coliseum Chicago Show, F. M. Gensch, Omro, Wis., won 2nd prize with the above male. In addition to this Mr. Gensch also won 3rd cock, 7th cockerel, 3rd and 7th pullet, 6th hen, and first prize old pen. Considering the quality and the number of entries, also the fact that this was the annual club meeting of the American White Orpington Club, the above record is worthy of serious consideration. Mr. Gensch has been producing high class exhibition White Orpingtons for many years and today his flocks rank with the very choicest to be found anywhere. This annual exhibition of the White Orpington Club was considered one of the most successful, especially from a quality standpoint. The above cockerel was large and massive, yet possessed the fine qualities of the most improved and modern Orpington type. In plumage he was pure white and also possessed a good head and a pair of shanks and feet that were neat and refined, yet stout and sturdy to carry the well developed body as shown on this individual. We hope Mr. Gensch will come back next year and show more like him and that his customers will also be successful in producing such high class show birds.—A. O. Schilling.

prices, almost without exception.

Meantime, many hundreds of millions of dollars of European money are coming into this country in a steady stream in payment for all forms of war supplies, including munitions. These orders have reached as far westward as Kansas City, starting from Atlantic Coast ports, and the Pacific Coast is getting a good share of this class of business for shipment to Russia and other far-eastern countries, including China and Japan. Canada still is buying quite freely from us in various lines and even Mexico must now

look to the United States for rehabilitation. Her railroads have been destroyed, in large part, also millions upon millions of dollars worth of other property and it will be useless for her to look toward Europe for several years to come in hopes of doing better than she can in the markets of the United States.

Last, but by no means least, the prospect of this country becoming involved in the European struggle has been reduced almost to zero, so it would appear. Over there they are now about evenly balanced, generally speaking, as regards men, munitions, financial resources, etc., and it is unthinkable that "either side" should want to cast into the scale against them the immense resources of the United States of America. Such being the case, it is highly probable that our country will be able to keep out of it in the future, as in the past. In that case, if the war is to continue two or three years longer—as seems inevitable—the

present GOOD TIMES throughout the United States will increase to a remarkable extent, so it would seem, with the

happy result that every important industry will prosper, including all the deserving members thereof.

THAT, IN BRIEF, IS HOW WE HAVE THE SITUATION "SIZED UP", AND THE NEXT THREE TO SIX MONTHS WILL "PROVE OUT" WHETHER OR NOT WE ARE RIGHT ABOUT IT. MEANWHILE, THERE IS EVERY



A CHALLENGER COCK, WINNER AT BOSTON 1915
BRED AND OWNED BY
GROVE HILL POULTRY YARDS WALTHAM MASS.

IVANHOE

The famous Barred Plymouth Rock cockerel of 1915 shows his superiority by winning first cock and champion male at Boston, 1916, in a class of 90 males.

Four sons of this noted bird were also in the ribbons in the same show.

Three out of six winning cockerels in the open class were Grove Hill birds.

At the recent Madison Square Garden Show we won three first prizes and special for best display on Single Comb Brown Leghorns in competition with birds from the far west, Canada and the central west. In addition to the best birds of the east.

GROVE HILL POULTRY YARDS

BOX 804, WALTHAM, MASS.

WM. E. BRIGHT, Prop.

F. G. COOK, Supt.

Smith's White Leghorns

Another Great Win! My strain made the greatest winning at the Greater Chicago Show, January, 1916, of any exhibitor in the class. Won 1, 2, 3, 4, 5 cockerel; 1 young pen; 2 old pen; 2, 5 cock; 2, 3, 4 hen; 2, 4, 5 pullet; best display; etc. This great win, together with my big win at the Chicago Coliseum Show, December, 1915, and at the World's Fair at San Francisco, November, 1915, proves the quality of my strain. My winnings for the season were the most consistent of any White Leghorn breeder anywhere! Grandest matings in the country for 1916—matings that will produce for you and for me real quality! Let me prove it. Catalog telling all about my Leghorns sent free. Eugene Smith, 315 Galena Boulevard, Aurora, Illinois

BYERS' ORPINGTONS

BUFFS, BLACKS AND WHITES

You can ill afford to ignore my ability to now serve you liberally in the finest exhibition birds, or the best possible layers in utility stock.

C. S. BYERS (Orpington Specialist 15 Years) HAZELRIGG, IND.

REASON, SO IT APPEARS TO US, FOR POULTRYMEN TO FEEL ENCOURAGED AND TO "TAKE HOLD" WITH RENEWED ENERGY.

THE AMERICAN BUFF PLYMOUTH ROCK CLUB STANDS FOR SQUARE DEALING

In the May, 1915 issue, of the Buff Rock Quarterly, published by the American Buff Plymouth Rock Club, under the heading, "The Buff Rock Club Stands for Square Dealing," appeared the following announcement:

"Notice is hereby given to members of the Buff Rock Club and others, that one John W. Poley, of Linfield, Pa., sold to one Mrs. R. M. Strange, of Chester, S. C., a pair of birds, November, 1914 for a certain show, guaranteeing them to win first and specials, and if they failed to do so to rebate a certain amount specified by him.

"These birds failed to win, and after Mr. Strange repeatedly wrote Mr. Poley, he would not make the rebate as per agreement.

"Thus failing to get a square deal, Mrs. Strange turned over the matter to the Executive Committee of the Buff Rock Club.

"As your Secretary, I wrote Mr. Poley quite a number of letters, urging him to make good his agreement, wherewith he wrote only one letter and said he would see that Mrs. Strange would get what was coming to her, and admitting that he owed her a part of the amount she claimed, but to date he has never offered her a check or otherwise in settlement for said claim.

"Mr. Poley has had ample time, and kind letters urging him to make good, and failing to do so therefore the Executive Committee this May 1st, 1915, expel him from the Club."

W. S. Robison, Fayette, Mo., is secretary and treasurer of the American Buff Plymouth Rock Club and the foregoing notice to members was written by him for publication in the Club Quarterly. The other officers of this club at that time were: President, F. C. Shepherd, Toledo, Ohio; members of the Executive

Committee, Mr. Shepherd, Mr. Robison, and T. B. Elliott, St. Louis, Mo., H. H. Cowen, Virden, Ill., and C. H. Barnes, Kalamazoo, Mich.

Sooner or later the "crooks" in the standard-bred poultry business are certain to come to grief. There is a "survival of the fittest, in business circles as well as in the animal kingdom. This man Poley has been "playing with fire" for some length of time. Reports of this nature increased in number and gradually took on a more serious form. A year ago an example of his crookedness—rank crookedness—came to the personal knowledge of the editor of A. P. W., but at that time we were not at liberty to make use of it, though we did take prompt steps to make sure that no further poultry advertising from Mr. Poley or from any farm with which he might connect himself, would be accepted for publication either in A. P. W. or the Reliable Poultry Journal.

The case referred to in the foregoing paragraph was as follows: We were at the Madison Square Garden Show, February 12-17, 1915, the day before the show closed. That evening about 10.15 o'clock, after the lights had been lowered and the public had been dismissed from the hall, a business associate asked us personally to inspect "the worst case of faking in the form of feather substitution" he had ever seen during his fifteen to twenty years close connection with the poultry industry.

Going to the Plymouth Rock aisle, this associate, a Buff Rock judge of long experience, took from its coop the first prize Buff Rock pullet, as exhibited by John W. Poley. This bird had been awarded first prize in competition (we did not ask the name of the judge, nor do we know it now—which fact is immaterial) and Mr. Poley later on claim-

ed and secured the prize money, doing so in regular course.

Taking the bird from the coop the associate referred to carried it to an electric light and asked us to examine the main tail feathers. We did so and they were solid buff to the skin. There was no sign of black, brown or chestnut. To the best of our recollection, this was the first solid buff tail we had seen in a Buff Rock female. The surface color of this bird was fine and the wing flights were solid buff in color, with no tinge of black or white. Evidently if the feathers in this bird had belonged to it, it was entitled to first prize.

But not a single MAIN TAIL FEATHER of the fourteen that decorated this specimen, and that was worn by the bird at the time the judge examined it and gave it first prize at our most popular poultry exhibition of the New World, HAD BEEN PRODUCED BY THIS BUFF ROCK PULLET HERSELF. Each and every one of them had been gathered from other Buff Rocks and had been "planted" in this specimen.

Mr. Poley, during the early days of this same Madison Square Garden Show, had taken on board three or four stiff "joy" drinks. Then he became boastful and "gave himself away," as they saying is. He not only took our business associate to the bird and showed him these main tail feathers, but he also became enthusiastic enough to explain just how he did it!

The method was this. He went through his flock of Buff Plymouth Rocks and selected a full equipment of solid buff feathers, finding one here and another there and so on until he had fourteen of this kind. Moreover, he selected these feathers in "regular order," so to speak, and kept careful track of

KEELER'S VICTORIOUS WHITE WYANDOTTES

MAKE MOST SENSATIONAL WIN IN YEARS

At Greater Chicago Show
January 13-19, 1916

With 190 birds in competition, making one of the hottest classes ever shown in the West, My Fashion Plates won 1-2-4 cock, 1-2-3-4 cockerel, 1-5 hen, 1-5 pullet 2-4 old pen, 1-3 young pen and specials. This again proves my strain of White Wyandottes as the

World's Greatest Strain

For 21 years, my strain has been winning for me and my customers at such shows as Chicago, New York, St. Louis, Kansas City, Indianapolis, Pittsburgh, Denver, New Orleans, etc. These winnings are the result of 21 years of systematic, pedigreed line breeding.

CHAS. V. KEELER,



R. F. D. No. 17,

Champion Blood Is What
You Want

Head your breeding pen this season with some of this championship blood. You will produce offsprings you will be proud to show anywhere next season. Now is the time to get busy.

2000 Birds For Sale — Eggs

Females \$5 to \$25; Males \$5 to \$35; Breeding pens \$20 to \$35, all the best blood lines, no cheap birds, nothing but the best. Eggs \$5 per \$15, sixteen grand pens already mated.

New 1916 handsome illustrated 64 page art catalogue of my White Wyandottes for mentioning this paper.

WINAMAC, IND.

them. For example, he found a No. 1 solid buff feather, then a No. 2, then a No. 3 and so on to the fourteenth. He kept track of these feathers as to the EXACT POSITION they had occupied in the birds from which they were plucked and when he had the full set of fourteen, each in its right position, he took the best-pullet he had as regards surface color and wing flights and plucked her main tail feathers, doing so one at a time and as he plucked an off-colored feather he carefully inserted, in the quill socket, the right one of the feathers he had gathered from other pullets in his flock and each feather thus inserted was sewed in place by the use of silken thread.

By the above process he substituted an entire new main tail of fourteen feathers, each in its right position as regards length, natural formation, etc., and every feather sewed securely in place. The blood soon coagulated and this was carefully washed away. The protruding ends of the silk thread were cut off and they left no marks that could be discovered, except by close inspection. The fluff feathers were then placed in their natural position, covering the quill feathers at their base and the job was done.

When the writer examined this specimen they were somewhat stiff, on account of being imbedded in the coagulated blood; also by that time the bird was sensitive to this unnatural condition and showed by her actions that the false feathers had become somewhat painful. Possibly the new feathers had started. Furthermore, she was restless in the coop. We compared the pliability (so to speak) of her tail feathers, with those of another bird and there was a noticeable difference; her feathers were stiff to the touch, as it were—lacking the natural pliability that should have been in evidence.

Pushing aside the fluff feathers, which hid the base of the main tail feathers, we could see in the bright light a ring of coagulated blood around each quill,

though this blood was beneath the level of the skin. Apparently it had been washed away as far as practicable. We returned a second time to examine this bird carefully and at the second examination we found a piece of silk thread protruding through the skin and pulled it out and cut it off with a pocket knife.

Frankly, this was the worst case of the kind we have ever heard of or known about. At America's foremost poultry exhibition less than a year ago, in a large class representing one of our popular varieties, a man was able to substitute an entire new main tail and "get away with it" by winning first prize on pullet. At that time we felt that Charles D. Cleveland, secretary of the New York show, ought to be told about this case, so that the exhibit of John W. Poley could be thrown out, the class rejudged and the next exhibitors in the class be allowed to receive their just reward for quality and integrity. But Poley had placed our informant under promise not to "give him away," and in view of this fact we did not feel at liberty to make public this rank case at that time.

However, at the Panama-Pacific Show we met Mr. Robison, secretary-treasurer of the American Buff Plymouth Rock Club and learned that Mr. Poley had been expelled from the club for business conduct unbecoming a member and that the fact of his expulsion had been published in the Buff Rock Quarterly. This led us to ask permission from our business associate to report the facts about Poley's crooked work at the Madison Square Show, February, 1915, which permission was given. We are glad to say that Mr. Poley is no longer engaged in the poultry business. Furthermore, the chances are many to one that he never again will try to enter the poultry ranks as a breeder or exhibitor of standard-bred fowl.

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***** Send us the annual subscriptions of two friends or neighbors and get your copy one year gratis.**

COUNTRY-WIDE MOVEMENT FOR TRUTHFUL ADVERTISING AND HONEST DEALING IN MAIL ORDER BUSINESS

Some time ago an organization was formed in this country, known as the Associated Advertising Clubs of the World. Saturday, January 22nd, member-clubs of four different cities—Buffalo, Rochester, Cleveland and Detroit—held a convention in Buffalo, N. Y. More than five hundred delegates were in attendance.

We quote as follows from the Buffalo Morning Express of date Sunday, January 23rd:

"New officers were elected during the afternoon and Cleveland was selected as the next convention city. The officers for the year are:

"President, Clinton G. Fish, president of the Rochester Ad club; vice president, George W. Billings of the Buffalo Ad club; secretary, T. W. Garvin, of Cleveland (re-elected); treasurer, H. G. McDonald of Detroit.

"A resolution which epitomizes the work of the convention was submitted by the vigilance committee at the banquet in the evening, and it was unanimously adopted. It reads:

"Resolved, That the advertising affiliation convention in Buffalo calls upon all advertising men to write, at any cost, only accurate and straightforward copy.

"That it calls upon all publishers of newspapers and periodicals to maintain the same standards and ideals in their advertising columns that they do in their editorial columns.

"And that the advertising affiliation further calls upon all of these to join with every good element in their communities to eliminate reprehensible practices, to make more healthy and wholesome the fundamentally sound body of modern advertising and to help sincere advertising men, advertisers and publishers to lift from the public mind the burden of unjustifiable suspicion resting on advertising and to give their whole-hearted support to the constructive fair-upting, truth-in-advertising movement, as carried on by advertising clubs, which aim to create more and better advertising; to build more and better business by making advertising a worthy public servant, deserving of a maximum public confidence and respect.

"The best results to this end can be obtained by putting into effect in every community the plan of investigation and education through a well-financed "Better business bureau," as advocated by the national vigilance committee of the Associated Advertising Clubs of the World."



U. R. FISHEL'S WHITE PLYMOUTH ROCKS

Have won more prizes at more *International Expositions, State Fairs, and Poultry Exhibitions* than any other strain. Our winning *first prize cockerel* the most coveted prize is a record unequalled. In 1915 at *Great Panama-Pacific Exposition, Chicago Coliseum, Indiana, Illinois and Kentucky State Fairs* the *first prize cockerel* was a *Fishel bird*.

You Want Breeders That Produce

They cost no more than the hap-hazard bred fowls. My White Plymouth Rocks have been *bred in line for over twenty years* therefore will give you results. When buying breeders secure the best blood obtainable. I have over *two thousand selected breeders* to select your birds from, over *eight hundred strong husky farm reared cockerels*, birds which at the head of your yards will give you results. They carry blood lines no one else can give you.

List free. Don't buy until you see it.

Special Sale During February

EGGS FOR HATCHING.

BABY CHICKS

U. R. FISHEL, Box B, HOPE, IND.

In this same connection we publish herewith a reproduction of a border—enclosed statement entitled "Kill the Fakers," which formed part of a three-column report of the above-mentioned convention, as same appeared in the Buffalo Express of Sunday, January 23rd:

KILL THE FAKERS

The ad men believe in the lesson of eternal vigilance. They now have more than 100 vigilance committees throughout the country, whose work it is to drive the dishonest advertiser out of business.

These fakers cost the country \$200,000,000 last year. The ad men expect to kill off half of them in 1916. They are receiving the hearty co-operation of the federal authorities to this end and already much good has been accomplished.

As a matter of course, this advertising club movement has for its object a "cleaning up" of all forms of publicity known as advertising, including the columns of periodicals and the many forms of printed matter now being distributed to the general public by the tens of thousands of advertisers who seek and obtain trade by advertising through the United States mails. Every honest man and woman will welcome this helpful movement. The "other kind" may be expected to object, also to argue, in one form or another, that all such things "hurt business." And so it will, let us hope—THEIR business.

QUITE LIABLE TO MAKE THE POULTRY BUSINESS APPEAR RIDICULOUS IN THE PUBLIC MIND

The illustration on page 277, top heading and all, is reproduced from a 4 x 5-inch picture that was published in the New York Herald early in December last. Underneath the cut, which cut was entitled "Lady Eglantine," appeared the following wording:

"Occupying a drawing room in a Pennsylvania train and guarded by a half dozen men, Lady Eglantine arrived in New York from Philadelphia to be exhibited at the Poultry Show at the Grand Central Palace. "Lady Eglantine is a White Leghorn pullet, who holds the world's egg-laying record and whose owner, A. A. Christian of Philadelphia, values her at \$100,000. She is two years old and was raised on scientific principles.

"Although the average product of the ordinary hen is seventy eggs a year, Lady Eglantine, in the national contest which closed on November 1, broke all records by laying 314 eggs in 365 days. She was brought up at the Delaware College Experimenting Station at Newark, Del.

A. P. W. does not question the number of eggs this hen laid. That she produced 314 eggs in three hundred and sixty-five days is a fact well authenticated, to the best of our knowledge.

On the other hand, how could the owner be so careless as to have a "lady" like this "guarded" by ONLY a half dozen men! It was a lucky day for Eglantine that Dan Young's type of "roosters" did not know she was coming to town.

And why this modest sum of \$100,000! It would have been an easy matter to have added another cypher, or perhaps three of them. In these days of "war

Foremost Prize Winners and the Men that Produce them

THE S. C. Black Minorca has a distinction of being the best known and most popular of all black plumaged fowls. It is also the most widely bred of the several varieties of the Minorca family. The S. C. Black Minorca came to America via., England from the Island of Minorca, one of the Mediterranean group that has become world famed for the races of poultry it has furnished. According to Lewis Wright, one of England's greatest authorities on poultry, the Minorca was introduced into England in 1834 or 1835, but it was half a century later before it reached America.

The Minorca is the largest of all breeds in the Mediterranean class, and the S. C. Black is the largest variety of its family, the Standard weights being cocks, 9 pounds; hens, 7½ pounds; cockerel, 7½ pounds; pullets, 6½ pounds. It is a very prolific egg producer and is especially famed for the size of its eggs.

Like all fowls coming from southern Europe it produces white shelled eggs, and is a non-sitter. Though very active the Black Minorca has a contented disposition and will thrive well in a back yard as it also does on a free range.

pictures one of the finest S. C. Black

The cover illustration of this issue Minorcas that has yet been produced. This grand cockerel was awarded the blue ribbon at America's premier poultry show, Madison Square Garden, December 30, 1915 to January 3, 1916. He won this coveted honor in competition with twenty-one cockerels. The display of Minorcas at this exhibition was remarkable. It was the first time in several years that the American Black Minorca Club had met at a Garden Show. The result was a large class and it required the very finest quality and the very best show condition to win. It does not require any elaborate description to point out, even to the novice the splendid quality of Mr. McGrann's winner. That he possessed all the characteristics of the Minorca to an unusual degree must



FRANK McGRANN, Lancaster, Pa.

be apparent. In referring to him Artist A. O. Schilling said:

"He is one of the finest examples of Minorca type that I have seen, and it would indeed be difficult to criticize him. He had a long, and rather slender neck, the sloping back, his tail is carried at the right angle, the body is of right length and the thighs are not too long. While his comb has two more serration than the Standard calls for, it is a splendid comb because it is not too large and is evenly serrated. He had a wonderful ear lobe and his wattles were of the right length. His symmetry was remarkable, all parts blending together perfectly,—and he carried himself as a Minorca should. In color, he was about perfect, being entirely free from purple barring and plum color."

This cockerel is a Whatglan Farm product. Whatglan Farm is located at Lancaster, in south central Pennsylvania and is owned by Frank McGrann. Mr. McGrann in addition to being one of the most extensive, is one of the country's oldest breeders of S. C. Black Minorcas which he breeds exclusively. He has a very excellent show room record. At the Madison Square Garden Show his complete winnings were as follows: 1-2-3-5 pens; 2-3-5 cocks; 1-2-3-5 hens; 1-2-3 cockerels; 1-3-5 pullets.

He also won seventeen out of thirty-one cash specials offered by the American Black Minorca Club and five silver cups as follows:

For best colored male. For best colored female. For male with best head points. For best display and for largest entry.

This win in the largest and best class of Minorcas ever exhibited at Madison Square Garden speaks volumes for the quality of his strain. Mr. McGrann is prominent in poultry affairs in the Keystone State. He has been President of the Pennsylvania Poultry Association and is now Secretary-Treasurer of the American Black Minorca Club which he was instrumental in re-organizing.

Associated with Mr. McGrann is Hiram Demmy, Jr., who has been Mr. McGrann's poultry superintendent for ten years. Mr. Demmy is acknowledged one of the country's best authorities on S. C. Black Minorcas. He is a life member of the American Poultry Association, a Director of the American Black Minorca Club and a member of the Pennsylvania State Poultry Association.

brides" and top-lofty munition orders that cause the average citizen to wonder if it might be POSSIBLE for him to borrow \$4.00 from a well-to-do "friend," we question the wisdom of placing a "mere pittance" valuation on the specimen shown in the picture herewith.

of this count. "Queen Elizabeth" is said to have begun laying on Nov. 4, 1914, and stopped on Oct. 13, 1915, laying an egg a day during that time. Two other fowls of the same brood are said to have laid 328 eggs in the same time.

"Queen Elizabeth" is a small bird of Black Minorca strain with a trace of Rhode Island Red and weights about four pounds.

The "World" above referred to is the New York World. How great is the rivalry that exists among the metropolitan news gatherers! Now we must rely on the "two-eggs-a-day-hen." From somewhere must come "Empress Somebody" that can lay 344 or more eggs in three hundred and forty-three days.

If not, why not?

Nor do we question the performance of "Queen Elizabeth" of the Commonwealth of Pennsylvania. Candidly, we are looking forward with confidence to the time when a well-behaved, stay-at-home, strictly up-right pullet-hen will lay three hundred and sixty-five eggs in three hundred sixty-five consecutive days. A Pennsylvania Indian Runner duck came within seven eggs of doing this and we regret the thought that a "duck" ought to be permitted to

excel a "hen in this important service to mankind.

DEPUTY U. S. MARSHAL ARRESTS POULTRY CROOK OF BLADENSBURG, OHIO

Our readers have Paul B. Van Winkle poultry artist of Richwood, Ohio, to thank for the privilege of reading the following report, as same was published in the Daily Despatch of Columbus, Ohio, of date December 15th:

"There was much excitement at the public schools in Bladensburg, Knox county, Tuesday, when the school superintendent,

Warren C. Norris, was placed under arrest by Deputy U. S. Marshal C. M. Wright of Columbus, on a charge of using the mails to defraud. He was indicted at the last session of the federal grand jury. Pleading not guilty, Norris was released under \$2,500 bond.

"The indictment charges that Norris conducted a poultry advertising swindle, two years ago, advertising in several poultry journals as W. C. Norris & Son, engaged in hatching, raising and marketing chicks and ducklings. Persons who answered the advertisements were sent circulars and letters by Norris, in which the impression was given out that the business was one of large proportions, more than half a dozen breeds of poultry being mentioned.

Investigation by federal authorities is said to have shown that there was no such partnership as Norris & Son, Norris' son being but 14 years old. There were but a few chickens in the Norris pens. Deposits required from prospective customers were never returned and the pullets and ducklings never sent, it is charged."

Huckster dealers who grossly misrepresent matters as to the quality of the stock of standard-bred fowls they pretend to own and who carefully conceal from their prospective customers the ACTUAL SOURCES of the riff-raff stuff they ship out, including eggs for hatching and day-old chicks, should "sit up and take notice" on reading the foregoing item, especially the REASONS that are given for the arrest of this man Norris. Here is a strong hint, at least, to what the United States postal authorities object in the line of false advertising and fraudulent dealings in the poultry field.

ATTRACTIVE NEW-STYLE COVERS OF AMERICAN POULTRY WORLD WIDELY POPULAR WITH SUBSCRIBERS AND ADVERTISERS

The "new idea" illustrated covers of American Poultry World, as conceived and executed by A. O. Schilling, artist, and W. C. Denny, business manager have proved to be a big hit with our subscribers and advertisers. Nothing that A. P. W. had done previously has called forth as many compliments, both verbally and in the form of letters of appreciation.

Thus far four of these covers have been presented, the prize-winning specimens shown being as follows:



Following is another item that is going the rounds of the daily press, heading and all:

LAIID 343 EGGS IN 343 DAYS

Pennsylvania Rival to Lady Eglantine Vouched for by Owner.

(Special to The World.)

CARLISLE, Pa., Nov. 7.—With his pet Minorca hen, "Queen Elizabeth," W. S. Geremeyer claims to have beaten the world's egg laying record recently established by "Lady Eglantine" at Delaware College. "Queen Elizabeth," he asserts, laid 343 eggs in 343 consecutive days. The best "Lady Eglantine" did is put at 314 in 365. Geremeyer and his wife certify to the correctness



REGALS ARE RECORD LAYERS

Regal White Wyandottes have always been a great winning strain but this alone does not account for their wonderful popularity. It consists in the fact that they stand today as the greatest known combination of beauty and utility. They are grand layers, make rapid growth and are true Wyandottes in type. Mr. M. K. Boyer, of Hamonton, N. J., is one of America's oldest and best known fanciers. The following letter gives his opinion of the Regals:

Hamonton, N. J., Sept. 11, 1915.

Mr. John S. Martin, Port Dover, Ont., Canada.

Dear Mr. Martin:—

It may interest you to know that I have a pen of Dorcas hens that are doing remarkable laying. I bought them in the fall of 1913, while pullets, from a party who purchased the eggs from you. There were ten of them and for the year beginning November, 1913, they laid 1920 eggs, or an average of 192 eggs a year. This year is not quite completed, but at the rate they have been laying, I know they will not fall short of repeating their performance as yearling hens.

For the combination of beauty and utility I do not believe there is a strain in the world that can beat yours.

Respectfully,

(Signed) MICHAEL K. BOYER.

STATE OF NEW JERSEY, } ss.:
Atlantic County.

Personally appeared before me George E. Strouse, a Notary Public for the state of New Jersey, Michael K. Boyer, who being duly sworn according to law, depose and saith, that the above statement is true and correct.

Sworn and subscribed before me this eleventh day of September, 1915.

(Signed) GEORGE E. STROUSE, Notary Public.

(Signed) MICHAEL K. BOYER.

2,000—COCKS, HENS, COCKERELS AND PULLETS FOR SALE—2,000

SPECIAL—500 beautiful exhibition cockerels and pullets ready now to win the blue ribbon for you. 100 well matured cockerels from my heavy laying, Dorcas line, \$8, \$10, \$15, \$20 and \$25 each. Dorcas pullets, \$3, \$4 and \$5 each. Breeding pens (male and four females), \$20, \$25, \$35 and \$50.

STAY WHITE VIGOROUS UTILITY COCKERELS, \$3.00 AND \$5.00 EACH

Eggs for hatching, exhibition matings, pens, 1 to 20 (as they run) \$5 per 15, \$9 per 30, \$12 per 45, \$24 per 100. Dorcas matings, \$5 per 15, \$15 per 50, \$27 per 100. Special matings \$10 per 15, \$18 per 30, \$25 per 45, \$50 per 100. Utility matings from heavy laying stock, \$9 per 100, \$25 per 300, \$75 per 1,000.

Send one dime for the Regal White Wyandotte Book telling all about the Regal Strain.

FREE—Send for my 20-page catalogue and mating list giving description of all my matings.

JOHN S. MARTIN, Box W, Port Dover, Canada

November, 1915, issue, a first prize Columbian Plymouth Rock, as bred and owned by Lew H. Bown, specialty breeder, East Aurora, N. Y.

December, 1915, issue, first prize Silver Campine, as bred and owned by the Homestead Campine Farm, Wayland, Mass.

January, 1916, issue, first prize cockerel and champion S. C. White Leghorn male at Panama-Pacific International Exhibition, as bred and exhibited by Mrs. E. B. Martin, Downey, Calif.

This issue, first prize, S. C. Black Minorca at Madison Square Garden, New York City, December 31, 1915—January 5, 1916, as bred and exhibited by Frank McGiann, Lancaster, Pa.

Additional pictures of high-class, standard-bred males for use in colors on A. P. W. cover have been arranged for as follows:

For March, 1916, issue, first prize cockerel and champion Barred Plymouth Rock male at Boston, January, 1915, as bred and exhibited by A. C. Hawkins, Lancaster, Mass.

For April, 1916, issue, a typical standard-bred Blue Andalusian male as selected and ordered by the Blue Andalusian Club, with the object of popularizing the Blue Andalusians to a further extent.

For November, 1916, a White Orpington prize-winner, as bred and exhibited by Owen Farms, Vineyard Haven, Mass.

For December, 1916, issue, a prize-winning White Plymouth Rock male, as bred and exhibited by the Pittsfield Poultry Farms Company, Skowhegan, Maine, and Holliston, Mass.

Other arrangements are under consideration for other months. We submit that these covers are both beautiful and instructive. For color work that is moderate in price we claim that they show up the different varieties to exceptional advantage. Moreover, the "art work" is attractive and beneficial. Mr. Schilling is showing remarkable ability along this line, the general result of which cannot fail to be widely helpful to the standard-bred poultry industry and also of permanent value.

AGAIN A PICTURE BOOK OF PRIZE-WINNING SPECIMENS AT FOREMOST EXHIBITIONS

Again subscribers to the American Poultry World are to enjoy the great treat of seeing in these columns photographic reproductions of literally DOZENS of prize-winning standard-bred fowl as exhibited by foremost specialty breeders at the leading exhibitions of the United States.

These true-to-life photographic reproductions are the work of Arthur O. Schilling, staff artist of American Poultry World, and the products of his skill each new season show the advancement that is being made by numerous poultry breeders who are devoting their lives to the improvement of domestic fowl, bred to standardized ideals.

For the season of 1915-1916 these illustrations of prize-winning specimens started with a pen of Silver Campines that won first prize as adult at the New York State Fair, September 1915. Beginning with this pen, which formed the frontispiece of our November 1915 issue, following is the list, as same has been

published, or is still to be published in these pages:

NOVEMBER, 1915, ISSUE:—

First prize adult pen, Silver Campines, New York State Fair, bred and owned by Homestead Campine Farm, Wayland, Mass.

First prize White Plymouth Rock hen, Allentown, Pa., Fair, September 1915, bred and owned by Guy Daily, Jeffersonville, Ind.

First prize Campine cockerel, New York State Fair, September, 1915, bred and owned by Martling Hennery, Ridgefield, N. J.

DECEMBER, 1915, ISSUE:—

First prize young pen, Silver Campines, New York State Fair, September, 1915, bred and owned by Martling Hennery, Ridgefield, N. J.,

JANUARY, 1916, ISSUE:—

Frontispiece showing first pen cock, first cockerel and first cock, Single Comb White Leghorns at the New York Palace Show, December, 1915, bred and owned by Wilburtha Poultry Farms, Trenton Junct., N. J.

First prize Silver Campine pullet, New York State Fair, September, 1915, bred and owned by Martling Hennery, Ridgefield, N. J.

Page plate showing first prize cock, first prize hen, first old pen cock, first prize pullet and first prize young pen cockerel, White Plymouth Rock winners at the Chicago Coliseum Show, December, 1915, bred and owned by H. W. Halbaeh, Waterford, Wis.

First prize Black Langshan cock, Greater Buffalo Show, November, 1915,

bred and owned by Urban Farms, Pine Ridge, Buffalo, N. Y.

First prize White Orpington pullet, Palace New York Show, December, 1915, bred and owned by Owen Farms, Vineyard Haven, Mass.

First prize color and shape special R. C. Rhode Island Red cock, Chicago Coliseum Show, December, 1915, (also first prize and championship, December, 1914.) bred and exhibited by Longfield Poultry Farm, Buffton, Ind.

First prize pen Single Comb Rhode Island Reds, New York Palace Show, December, 1915, bred and owned by Lester Tompkins, Concord, Mass.

First prize and color special Rhode Island Red cockerel, Greater Buffalo Show, November, 1915, bred and owned by Harold Tompkins, Concord, Mass.

Second prize pen, White Wyandottes, Greater Buffalo Show, November, 1915, bred and owned by C. S. Wetmore, Laekawanna, N. Y.

First prize White Rock pullet, New York State Fair, September, 1915, bred and owned by Rancocas Poultry Farm, Browns Mills, N. J.,



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NATIONAL POULTRY INSTITUTE, TOPEKA, KAN.

S. C. & R. C. RED SALE

Established strain with an established record.

Cocks, hens, cockerels and pullets. All birds shipped on approval. A few good last seasons winners in good condition for sale very reasonable, to make room if taken at once. RED POULTRY YARDS, Box W, BETHLEHEM, PA.

AT THE GREAT PANAMA-PACIFIC INTERNATIONAL EXPOSITION POULTRY SHOW, NOVEMBER 18-25, 1915,

McCONNELS S. C. B. MINORCAS

again substantiate my claim of America's greatest trapnested egg producing and exhibition strain by winning in one of the largest and best classes ever exhibited.

Cocks	Hens	Cockerels	Pullets	Pens
1-2-4-6-7	3-4-8	1-2-4-5	1-2-3	2

also fifteen birds in the hands of my customers were in the ribbons.

Large, snappy, vigorous, trapnested, exhibition or breeding stock for sale that will improve any flock.

I sell eggs that will hatch regardless of distance of shipment.

Send for Sales and Mating List.

BREEDING FOR EGGS MY HOBBY.

J. V. McCONNELL, Box 27G, Garden Grove, Calif., U. S. A.

AT THE GREAT PANAMA-PACIFIC INTERNATIONAL EXPOSITION, SAN FRANCISCO, November 18-25, 1915, WE WON EVERY FIRST PRIZE

FIRST-2-4 and 7 cocks. FIRST-2-3 and 4 cockerels. FIRST-2 and 4 hens.

FIRST and 3 pullets. FIRST and 3 pens. Champion Male. Champion

Female. All specials. Judge, Irving Rice of New York.

SINGLE COMB WHITE LEGHORNS

Our birds have been line bred for 22 years. Are bred and trapnested for high egg production. Their size, vigor and type are unsurpassed.

EXHIBITION, BREEDING and FOUNDATION STOCK OUR SPECIALTY.

Eggs for hatching in season. All stock carefully selected and cooped. EGGS PACKED AND SHIPPED SAFELY ANY DISTANCE.

WRITE FOR FREE MATING LIST

RANCHO DEL MARTINO

DOWNEY, Mrs. E. B. Martin. CALIFORNIA

THIS ISSUE (FEBRUARY, 1916):—

First prize old pen single comb White Leghorns, Chicago Coliseum, December, 1915, bred and owned by Rancocas Poultry Farms, Brown's Mills, N. J.

First prize pen, Columbian Wyandottes, Madison Square Garden, New York, January, 1916, bred and owned by Wilburtha Poultry Farm, Trenton Junction, N. J.

Five winning R. C. Red males, Madison Square Garden, January, 1916, bred and owned by I. W. Bean, South Braintree, Mass.

Second prize pen, White Wyandottes, Buffalo, N. Y., November, 1915, bred and owned by Marshall & Marshall, Niagara Falls, Ont.

First prize Silver Campine cock, New York State Fair, September, 1915, bred and owned by Martling Hennerly, Ridgefield, N. J.

First prize Speckled Sussex cockerel, Chicago Coliseum, December, 1915, owned by Rawnsley-Shields, Columbus, Ohio,

First prize, White Plymouth Rock cockerel, Panama-Pacific, November, 1915, and first prize cockerel, Chicago Coliseum, December, 1915, bred and owned by U. R. Fishel, Hope, Ind.

First prize S. C. R. I. Red cockerel, New York Palace Show, December, 1915, bred and owned by Houck and Alt, Buffalo, N. Y.

Second prize White Orpington cockerel, Chicago Coliseum, December, 1915, bred and owned by F. M. Gensch, Omro, Wisc.

First prize S. C. R. I. Red hen, New York Palace Show, December, 1915, bred and owned by S. G. McLean, South Glastonbury, Conn.

Second prize White Orpington cockerel, New York Palace Show, December, 1915, bred and owned by Owen Farms, Vineyard Haven, Mass.

S. C. White Leghorn cock, bred and owned by Moore Bros., Moscow, N. Y.

First prize Golden Campine cockerel, Chicago Coliseum, December, 1915, bred and owned by E. P. Hatheway, Ottawa, Ill.

Rose Comb R. I. Red cock heading first pen, Chicago Coliseum, December, 1915, bred and owned by Longfield Poultry Farm, Buffalo, Ind.

First prize Buttermilk cockerel, Chicago Coliseum, December, 1915, bred and owned by W. C. Brunig, Elkhart, Ind.

First prize Lakenvelde, cockerel, Madison Square Garden, bred and owned by L. E. Osgood, Plainfield, N. J.

First prize Silver Campine hen, New York Palace Show, December, 1915, bred and owned by Homestead Campine Farm, Wayland, Mass.

First Prize White Orpington cockerel, Chicago Coliseum, December, 1915, bred and owned by Aldrich Poultry Farm, Columbus, Ohio.

First Prize S. C. Rhode Island Red cock, New York Palace Show, December, 1915, bred and



At the recent Madison Square Garden Poultry Show, Miss L. E. Osgood, Plainfield, N. J., had on exhibition a collection of rare and beautiful Lakenvelders among which was the cockerel shown in above study. This bird had good size and was very symmetrical in form and profile. The beautiful black hackle and tail in contrast with the white body makes a very striking appearance in this unique and attractive old Dutch breed. Holland, as their name would signify, is the native country of the Lakenvelders, where they are known as great egg producers and are being bred to wonderful form and feather. Miss Osgood has one of the finest collections of Lakenvelders in this country and has supplied many breeders throughout the country with winning specimens. From all indications this worthy breed is beginning to grow more popular as their useful qualities are better known. —A. O. Schilling.

SUSSEX

CAMPINES

WORLDS CHAMPIONS

At the Greatest Poultry Show Ever Held—Panama Pacific International Poultry Show in Competition with the Worlds Best WE WON

9 Firsts Out of a Possible 18

7 seconds, 6 thirds, 6 fourths and 2 fifths. Each one of our 44 birds entered won a Ribbon. A most remarkable and enviable record.

At the Cleveland Poultry Breeders Association Show

January 3 to 8, 1916. We won 12 firsts out of a possible 16. 7 seconds, 6 thirds, 6 fourths and 2 fifths. A few choice pens, trios, and single birds for sale at reasonable prices. We have our pens mated for the egg trade. Write us for mating list.

GENSEMER BROS.

BOX W.

CRESTON, OHIO



FIRST PRIZE WHITE ORPINGTON CKRL
CHICAGO COLISEUM SHOW DEC. 1915 BRED & OWNED BY
ALDRICH POULTRY FARM COLUMBUS, OHIO.

Chicago Coliseum Show was the place selected by the American White Orpington Club as its annual battle-field in a contest for supreme honors which resulted in one of the finest collections of White Orpingtons that has been brought together for many years. Throughout the class one could find individuals of wonderful type both males and females and not only in the ribbons was this apparent but unplaced birds could be found fit to win in other keen competition. Among the most successful exhibitors was Aldrich Poultry Farm, 4042 N. High St., Columbus, Ohio, who won 1st prize cock, 2nd hen, 1st cockerel and 5th pullet. First prize cockerel is shown in above study and it will be seen that he was a bird of large bone, broad shoulders, legs set well apart and a full deep breast. In color he was very white and was a natural show specimen. He is a decendent of the wonderful line of ancestors which have been winning for Aldrich Poultry Farm during the past years at the various shows throughout the country. Messrs. Aldrich have accomplished much in popularizing and improving the White Orpingtons up to date. We recall the time when a pure White Orpington was considered rather rare and it was not uncommon to see specimens shown that looked more like Plymouth Rocks or clean legged Langshans than the present day beautifully proportioned Orpington. Aldrich Poultry Farm have produced hundreds of high class exhibition specimens and no doubt many will agree that to them is due the credit of having produced a large number of the most advanced type in White Orpington.—A. O. Schilling.

owned by Lester Tompkins, Concord, Mass.

Second prize S. C. Buff Leghorn cockerel, Madison Square Garden, January, 1916, bred and owned by L. E. Merihew, Marathon, N. Y.

S. C. White Leghorn cockerel winner Chicago Coliseum, December 1915, bred and owned by Keystone Poultry Farm, Lincoln, Nebr.

80,000 EXHIBITORS estimated at San Francisco Panama-Pacific Exposition, out of this vast number The Martling Hennery was awarded

FIRST PRIZE and SECOND DISPLAY for

MARTLINGS SILVER AND GOLDEN CAMPINES

THIS SPLENDID TRIBUTE TO THE QUALITY of our stock, emphasizes the acknowledged fact that it is the best strain of Campines in the world. Last year's winnings included best display at Madison Square Garden, Palace, New York State Fair, New Jersey State Fair, and Brooklyn, a grand total of 300 prizes at America's leading shows.

If you are interested in this most PROFITABLE and ECONOMICAL breed of fowl, write at once. STOCK for sale at reasonable price, EGGS for hatching "MARTLING GUARANTEES A HATCH."

THE MARTLING HENNERY

P. O. Box 186

RIDGEFIELD, N. J.

M A R C H, 1916,
ISSUE:—

First prize pen Rhode Island Reds, Madison Square Garden, January, 1916, bred and owned by I. W. Bean, South Braintree, Mass.

First prize pen S. C. Rhode Island Reds, Madison Square Garden, January, 1916, bred and owned by B. H. Scranton, Rising Sun, Ind.

First prize pen Silver Campines, Madison Square Garden, January, 1916, bred and owned by Martling Hennery, Ridgefield, N. J.

First prize pen Barred Plymouth Rocks, Boston, January, 1916, bred and owned by Pittsfield Poultry Farm, Holliston, Mass.

First prize pen White Plymouth Rocks, Boston, January, 1916, bred and owned by Pittsfield Poultry Farms, Holliston, Mass.

First prize pen White Plymouth Rocks, Madison Square Garden, Jan. 1916, bred and owned by Rancocas Poultry Farm, Brown Mills, N. J.

First prize pen S. C. White Leghorns, Boston, January, 1916, bred and owned by Owen Farms, Vineyard Haven, Mass.

First pen male, Buff Plymouth Rocks, Madison Square Garden, January, 1916, bred and owned by Jas. H. Vincent, Hazelton, Pa.

Third White Wyandotte cock at Madison Square Garden, 1916, was hatched from eggs I sold. The sire and dam of this great bird are in my breeding pens. You can buy eggs from them and their sons and daughters and raise some of these choice birds that win for my customers at the best shows. Don't forget their great laying qualities. The dam of this bird is one of my best layers. My matings contain my line bred birds that must throw extra choice specimens and best of all they are bred for great vigor. Eggs will hatch good and chicks will live and grow. Come to headquarters. Beat the other fellow to it. Eggs from exhibition matings \$5.00 per 15, \$12.00 per 45. Heavy laying matings \$2.50 per 15, \$8.00 per 100.

FRED C. LISK

BOX L.

ROMULUS, N. Y.

First prize hen, Buff Plymouth Rocks, Madison Square Garden, January, 1916, bred and owned by Jas. H. Vincent, Hazelton, Pa.

First prize pullet S. C. Brown Leghorn, Madison Square Garden, January, 1916, bred and owned by Grove Hill Poultry yards, Waltham, Mass.

Second prize cock, S. C. Brown Leghorn, Madison Square Garden, January, 1916, bred and owned by Williams Bros., Fullerton, Calif.

First prize hen, S. C. Brown Leghorns, Madison Square Garden, January, 1916, bred and owned by Williams Bros., Fullerton, Calif.

Second prize White Orpington hen, Madison Square Garden, January, 1916, bred and owned by Robert Christie, Mt. Hamilton, Canada.

First prize Dark Brahma cockerel, Madison Square Garden, January, 1916, bred and owned by W. H. Besuden, Cincinnati, Ohio.

Second prize Buff Orpington cock, Madison Square Garden, January, 1916, bred and owned by Owen Farms, Vineyard Haven, Mass.

First prize Buff Orpington hen, Madison Square Garden, January, 1916, bred and owned by Owen Farms, Vineyard, Haven, Mass.

First prize Buff Orpington pullet, Madison Square Garden, January, 1916,

SANBORN'S
PEDIGREE
S. C. R. I. REDS

309 EGGS IN 365 DAYS

We breed and own the champion layers of the world, breeding from careful selected trap-nest record stock for eight years. Hen number 1125 layed 309 eggs in 365 consecutive days a world's record unsurpassed.

Grand Pedigreed Males from Record Hens

We now offer for sale a limited number of males from our famous egg record hens. Improve the laying qualities of your flock by breeding from one of these pedigreed males.

Write today for free list of over 400 trap nest records and prices.

SANBORN'S POULTRY FARM

H. W. SANBORN, Prop.

West Mansfield, Mass.

P. O. Attleboro, Mass



bred and owned by Owen Farms, Vineyard Haven, Mass.

Third prize S. C. Rhode Island Red cockerel, Boston, January, 1916, bred and owned by Owen Farms, Vineyard Haven, Mass.

Second pen male S. C. R. I. Red, Boston, January, 1916, bred and owned by Owen Farms, Vineyard Haven, Mass.

First prize White Wyandotte cock, Boston, January, 1916, bred and owned by J. W. Andrews, Dighton, Mass.

First prize Silver Campine cock, Boston, January, 1916, bred and owned by Homestead Campine Farm, Wayland, Mass.

First prize pullet-breeding pen male, Barred Plymouth Rock, Chicago Coliseum, December 1915, bred and owned by John W. Yant, Canton, Ohio.

First prize Blue Plymouth Rock cockerel, Panama-Pacific, November, 1915, bred and owned by Mr. Hasselman, Hope, Ind.

First prize Columbian Plymouth Rock cockerel, Buffalo, November, 1915, bred and owned by Wilburtha Poultry Farm, Trenton Junction, N. J.

APRIL, 1916, ISSUE:—

First prize Columbian Wyandotte cock, Madison Square Garden, January, 1916, bred and owned by Wilburtha Poultry Farm, Trenton Junction, N. J.

First prize White Faced Black Spanish cockerel, Madison Square Garden, January 1916, bred and owned by R. A. Rowan, Los Angeles, Calif.

First prize White Faced Black Spanish, pullet, Madison Square Garden, January 1916, bred and owned by R. A. Rowan, Los Angeles, Calif.

Winning Buff Orpington hen, Madison Square Garden, January, 1916, bred and owned by Owen Farms, Vineyard Haven, Mass.

Winning Buff Orpington cock, Madison Square Garden, January, 1916, bred and owned by Owen Farms, Vineyard Haven, Mass.

Second prize Buff Orpington cockerel, Madison Square Garden, January, 1916, bred and owned by Owen Farms, Vineyard Haven, Mass.

Second prize Barred Plymouth Rock hen, Boston, January 1916, bred and owned by Pittsfield Poultry Farms, Holliston, Mass.

First prize S. C. White Leghorn cockerel, Boston, January 1916, bred and owned by Owen Farms, Vineyard Haven, Mass.

Second prize S. C. White Leghorn cockerel, Boston, January 1916, bred and owned by Owen Farms, Vineyard Haven, Mass.

Third prize pen male, S. C. White Leghorn, Boston, January 1916, bred and owned by Owen Farms, Vineyard Haven, Mass.

Winning pen male, S. C. Rhode Island Red, Boston, January 1916, bred and owned by Owen Farms, Vineyard Haven, Mass.

First prize Silver Campine cockerel, Boston, January, 1916, bred and owned by Homestead Campine Farm, Wayland, Mass.

S. C. Rhode Island Red male, Madison Square Garden, winner bred and owned by Owen Farms, Vineyard Haven, Mass.

First prize Silver Campine cockerel, New York Palace Show, December 1915, bred and owned by Homestead Campine Farm, Wayland, Mass.

First prize S. C. Rhode Island Red cockerel, New York, Palace Show, bred and owned by Lester Tompkins, Concord, Mass.

STRAIN OF RHODE ISLAND REDS THAT REACHES BACK TO ORIGIN OF THE BREED

Lester Tompkins, Concord, Mass., one of America's master breeders of Rhode Island Reds, both varieties, was an interested visitor at the Boston Show. Mr. Tompkins' father was born in Adamsville, Little Compton District, Rhode Island, where the Rhode Island Reds originated as a popular "farmer's fowl" that in those early days represented a valuable combination of table poultry and prolific egg yield. Lester also was born in Adamsville, about fifty years ago. Harold Tompkins, also of Concord, Mass., is his son.

For twenty-two years Lester Tompkins has been breeding Rhode Island Reds and during the last sixteen years he has line-bred them. By preserving the blood lines and by careful, intelligent selection he has established a strain that produces Rhode Island Reds second to none on earth or elsewhere. This is a mere statement of fact. At the Palace Show Mr. Tompkins refused \$500 for his first prize S. C. Rhode Island Red cock. Six or seven

years ago, to our personal knowledge, he sold a bird at this price to a customer in Michigan. Here we have an illustration of the HIGH VALUE that attaches to standard-bred fowl produced by trustworthy line-breeding. With Mr. Tompkins it is not a matter of guesswork. He knows the parents, grand-parents and great-great-grand-parents of the choicest birds of his production and he tells us frankly that his best "producers" are not for sale at any price.

Our readers will be interested to learn that, as a matter of fact, quite a number of the foremost successful breeders of standard-bred fowl DO NOT EXHIBIT their choicest birds. This is especially true of highly valuable producers. They feel that they cannot afford to risk the health or lives of these extra valuable producers by showing them for several days in exhibition and by shipping them to and from the show during winter weather.

Additional to standard qualities, Mr. Tompkins for several years has paid

NIAGRADOT

Berlin, Ont., Jan. 7th, 1915.

Dear Mr. Marshall,
Am ready for eggs now. Can by past experience expect winners for early fall shows. Won 1-2 cock, 1-2-3 hen, 1-2 cockerels, 1-2-3-4 pullets here. Best cock in show and many specials.

A. S. UTTLEY.

BUY BIRDS OR EGGS AND DO LIKEWISE

Catalogue free. Eggs, exhibition \$5.00, Utility \$2.00.

MARSHALL & MARSHALL.
Box W. Niagara Falls, Canada.

WHITE WYANDOTTES

HAWKINS BARRED ROCKS

CHAMPIONS EAST and WEST

No other strain of Barred Rocks in America has ever made such sweeping victories at the World's Greatest Shows.

Boston, New York, Chicago and San Francisco

They are better this season than ever before, and I can sell you

SURE WINNERS IN ANY COMPETITION

High-class breeding birds that will produce winners. Big Catalogue of the Champions Free.

A. C. Hawkins, Lock Box 30, Lancaster, Mass.

Forest Hill Poultry Yards Quality White Plymouth Rocks

PRIZE WINNERS AT COLUMBUS, HAMILTON, DAYTON, SPRINGFIELD AND MANY OTHER SHOWS

BARGAIN SALE—25 choice one year old breeding cocks at \$5.00 to \$10.00 each. They are good type, size and color, also 50 cockerels at \$5.00 each. Each one of the above worth much more. We must have the room, hence the price. Order now, don't delay. Satisfaction guaranteed. Address

A. G. SPAHR,

Box 220,

XENIA, OHIO

close attention to the so-called utility or market values of his strain of Rhode Island Reds. Repeated experiments at the poultry department of the Massachusetts Agricultural College, Amherst, have proved that Mr. Tompkins standard-bred Reds, are unexcelled in constitu-

INSTRUCTIVE BARRED ROCK EXHIBIT MADE BY A. C. HAWKINS AT BOSTON SHOW

One of the most instructive exhibits made at the Boston show, January 11-15, 1916, consisted of two display pens of Barred Plymouth Rocks owned and mated by A. C. Hawkins, Lancaster, Mass., originator of the well-known Royal Blue strain of this popular variety. These pens were located near the center of Mechanics Hall and attracted unusual attention. One of them was entitled an "all-star cockerel mating," the other a "champion pullet-bred mating."

A chief object of this display was to show admirers of the Barred Rocks how to mate a cockerel-breeding pen, also a pullet-breeding pen. At the head of the cockerel mating was a cock bird that won first as cockerel at the Boston show, January, 1915, also champion male, also the award for best color, also the \$100 challenge cup for the best Rock male in the show, also the sterling silver medal given by the Boston Association for the "championship bird of the year" at this exhibition. Mated with this "champion" cock bird were four cockerel-bred females of excellent quality. They were superior in shape and barring and represented the kind of females Mr. Hawkins would select to mate with the champion male for the production of high-class exhibition males.

The "champion pullet-bred mating" was indeed and "all star" collection. At the head of this pen was a light-colored, but well-banded cock that won first and special as pullet-bred cock at the Boston show, January, 1915. With him were the

following noteworthy mates: First prize and champion hen at the Panama-Pacific Poultry show, November 1915; first and color special hen at Boston, January, 1915; first pullet and champion Barred Rock female at Chicago, season of 1913-1914; best hen in first exhibition pen, Boston, 1915.

On the large sign above these display pens was this wording:

"Every bird in this collection was bred and is owned by A. C. Hawkins, Lancaster, Mass."

Mr. Hawkins is now devoting practically all of his time to the Barred Plymouth Rocks. He produces upwards of four thousand each season, about twenty-five hundred of which are raised on the home place. His latest mating list will be furnished to A. P. W. readers free on request.

WORDS OF DESERVED PRAISE FOR A. O. SCHILLING'S EXCELLENT WORK AS A POULTRY ARTIST

Because it is so well merited, we find pleasure in quoting from two sample letters of recent date commenting favorably on the superior work Arthur O. Schilling, staff artist of the American Poultry World, is now doing in the reproduction of life-like pictures of prize-winning standard-bred fowl, as shown at the leading poultry exhibitions of the country.

Writing under date January 12, 1916, A. C. Williams, breeder of Speckled Sussex fowl, Ravenna, Ohio, said:

"I wish to thank Mr. Schilling for the splendid work he did on this half-tone. It's the best picture I ever saw of a Speckled Sussex and I am delighted to have it on account of the death of the bird. Am in the poultry business for pleasure and recreation only. Still I like to breed the finest birds possible and am ready to pay any price for a bird I think will improve my flock. The comfort and pleasure of breeding 'the best' is all I desire."

Herewith are two paragraphs quoted from a letter of date January 13th, received by us from H. W. Halbach, proprietor of Riverdale Farm, Waterford, Wis., one of our half-dozen foremost breeders of standard quality White Plymouth Rocks:

"I received the large photo last Saturday night and was greatly pleased when it was shown to me, in fact. I was so pleased that I thought I had better not write and tell you about it at once. Since then, however, I have had every opportunity to study this group closely and what I want to do right now is to congratulate Mr. Schilling on the most perfect picture that ever has been produced of this variety.

"In past seasons Mr. Schilling has put out some great work and other artists likewise have turned out excellent illustrations, but this particular group, in my opinion, is the best that ever has been produced. It is simply wonderful as a true likeness, and I want to thank Mr. Schilling for his splendid effort. It depicts the fowls just as they are—just as we



FIRST PRIZE SILVER CAMPINE HEN
NEW YORK PALACE SHOW DEC 1915 BRED & OWNED BY
HOMESTEAD CAMPINE FARM WAYLAND, MASS.

A word description or the pictorial efforts of our pen or brush hardly seems to suffice in an effort to present a likeness of the first prize Campine hen at the recent New York Palace Show shown by Homestead Campine Farms, Wayland, Mass. This beautiful individual was brought to us to be photographed and placed before the camera. After studying her carefully, we were particularly pleased with her exquisite outlines and profile when posed for the picture. She was a model to behold and Mr. C. A. Philpps, owner and breeder, is entitled to congratulations on having produced this wonderful specimen. We have made studies of numerous Homestead Campines in the past few years, but in our opinion this female carries off first honors as a finished product. She was active, full of type and vigor which are well known characteristics of the "Vigorous Strain".—A. O. Schilling.

tional vigor, prolific egg-yield and quick maturity. This is a proud triumph for any student of poultry culture, and fairly entitles Lester Tompkins to be listed among the dozen most successful specialty breeders of standard-bred fowl this country has produced during the present generation.

*** Local agents make big money with A. P. W. Full particulars and outfit free.

JENNINGS BLUE ANDALUSIANS

Win at Madison Square Garden, Boston, Chicago and Buffalo

At the recent Madison Square Garden Show, my win of first prize and champion cock was the coveted award of the entire Andalusian class, 47 birds exhibited. At Buffalo, in 1914, I carried off 1st and 2nd cock, 1st and 2nd hen, 1st and 2nd cockerel, 1st and 2nd pullet and 1st pen. Prolific layers of large white eggs and lots of 'Em.

Eggs for Hatching From Prize Winners

I am in a position to furnish a limited number of hatching eggs from special mated pens made up of prize winners and direct descendants of prize winners. Book your order now for early delivery. Write for free literature and prices.

WM. ORLANDO JENNINGS Box A. Buffalo, N. Y.



are used to seeing them at their best on the range."

Naturally, it is a great satisfaction to Mr. Schilling and his business associates to receive letters like the foregoing. Dozens of them have come to hand during the last two or three years and we felt that earnest readers of A. P. W., who are

and line-breeding, as practiced by J. V. McConnell, Garden Grove, California, expert breeder of S. C. Black Minorcas, has had to be postponed until next month on account of lack of time to prepare it and do justice by the subject and Mr. McConnell. Editor of A. P. W. made an eastern business trip during January, also a western trip. Previous to this he spent practically seven weeks on the Pacific Coast and at intermediate points. Some of our readers can imagine what this means for a "busy man" during the busy season of the year.

Mr. McConnell has line-bred for ten years. He has been trap-nesting the last eight years. On his unique ten-acre plant he raises twenty-two to twenty-four hundred Black Minorcas each year. Last year—an exceptional one for him in this respect—he raised nearly twenty-eight hundred head of fowl. He aims to produce about two thousand "good ones" each season, so he told us.

Mr. McConnell is breeding two strains: one for exhibition and breeding purposes, the other for prolific egg yield. Years ago a bird of his production, "Queen" by name, laid 276 eggs in three hundred and sixty-five consecutive days—laid them in trap-nests. This hen was made the foundation of Mr. McConnell's "egg strain," as he calls it. No descendant

ever equalled the egg-record of "Queen." Three of her daughters, however, laid 248, 256 and 264 eggs in trap-nests. As regards exhibition quality, few poultrymen in the wide world have equalled Mr. McConnell in this branch of the work, judging by his show room triumphs from the Pacific to the Atlantic at foremost exhibitions.

AN ADVERTISEMENT THAT HAS ATTRACTED WIDE-SPREAD ATTENTION

That advertisement of H. Cecil Shepard's, Berea, Ohio, leading specialty

breeder of Anconas, wherein he shows a hen on a nest, the nest marked "\$3.00," also a wire basket of white-shelled eggs, the picture of this basket being marked "\$21.27," has attracted wide-spread attention and called forth a variety of comment. A. P. W. readers can find out about this hen (or hens like her), also about the \$21.27 worth of eggs by sending for Mr. Sheppard's latest poultry catalogue. It will be mailed free on request.

Another statement made by Mr. Sheppard in his advertisement that has been commented on is this:

"They (meaning Sheppard's strain of Anconas) are famous egg machines and the greatest winter layers, with the wonderful egg record of 256 average for a flock."

In his catalogue Mr. Sheppard publishes a letter from a customer who kept track of the egg production of a flock of seven Sheppard strain Anconas that in three hundred and sixty-five days averaged two hundred and fifty-six eggs per pullet-hen. Probably this is a world's record—it is to the best of our knowledge.

The day is at hand in the poultry industry of the United States and Canada when all statements made in advertisements published in the poultry press, also in catalogues and other printed matter that are sent to persons who inquire for same as the result of reading advertisements in the poultry journals, must stand the light of publicity—the acid test of criticism. Moreover, quite often this criticism will be unfriendly, at least in degree. Rivalry will enter into the problem, but this can be discounted by the average reader. Greater intelligence is called for on the part of the rank and file among poultry breeders, small and large. Knowledge still is "power" and often points the road to success. As the years go by domestic fowls that are bred for special purposes will perform greater wonders than anything that has been done thus far.

With this prospect in view, let us study the problem with great earnestness, be systematic, call on science for help and then dare to state FACTS, regardless of criticism. But we must be prepared to defend our facts. Of this there can be no doubt. Truth is, the poultry business is far more interesting, is far more wonderful and can be made far more PRODUCTIVE than the great majority of us know or anticipate. Here is "looking forward," therefore, and may the Sheppards, the Youngs, the Thompsons, the Martins, the Halbachs, the Tompkins and ten thousand others, present and future, lead the way and establish THE FACTS, not forgetting the experiment station workers and the immensely valuable work they are destined to do on parallel lines as the years progress.

W. B. ATHERTON, SECRETARY-TREASURER OF THE BOSTON SHOW, PRESENTED WITH A GOLD WATCH

On Thursday, January 13th, during poultry show week, exhibitors at the Boston show and other long-time friends

SLADE'S FAMOUS WINNING BUFF ORPINGTONS
WINNERS AT BUFFALO, N. Y., STATE FAIR AND ROCHESTER 1914-1915.

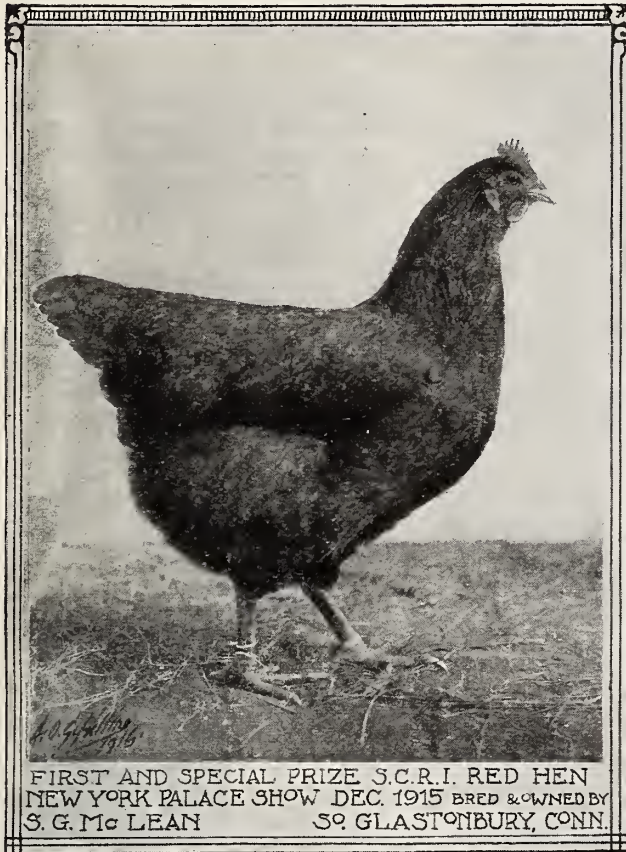
Bred for laying capacity as well as winners.
From five of the best matings ever put together \$5.00 per setting. Utility eggs, \$2.00 per 15 or \$9.00 per 100. Book your order today.

COCKERELS

Buy one of my \$10 cockerels and note the improvement next season in your stock. A few good ones left at \$5.00.
New circular and mating list describing the birds free for the asking.

H. W. SLADE,

NEWARK, N. Y.



FIRST AND SPECIAL PRIZE S.C.R.I. RED HEN
NEW YORK PALACE SHOW DEC. 1915 BRED & OWNED BY
S. G. McLEAN SO. GLASTONBURY, CONN.

S. G. McLean, South Glastonbury, Conn., exhibited a S. C. Red cockerel that won second prize and color special at the Boston Show, last year. This year Mr. McLean was fortunate enough to win 1st prize on a beautiful hen at the New York Palace Show, with the specimen shown in the above study. She was a bird of excellent length of body, broad, level back and color that is simply remarkable for an adult female. Mr. McLean seems to have a color producing strain yet at the same time we have noticed that his exhibition birds that have been winning for him have plenty of the desired type which also counts so much in carrying away the highest honors. He believes in quality rather than quantity and it is needless to say that under such conditions he is in a position to know exactly which individuals are producing his show birds. His customers are also sure to receive eggs from the very choicest pens which is naturally always satisfactory to the buyer.—A. O. Schilling.

sincere friends of poultry culture, would like to read the recent samples here quoted. They will give our readers a true idea of the high esteem in which Mr. Schilling's life-like illustrations are held by the competent specialty breeders who KNOW MOST about standard-bred values and who are in the best position to judge whether or not an artist does full justice by the birds illustrated.

LINE-BREEDING ARTICLE NEXT MONTH

The article we had hoped to present this month devoted to strain-building

of the Boston Poultry Association, presented a beautifully engraved gold watch to W. B. Atherton, in the latter's capacity as secretary of this association and manager of the show. The presentation speech was made by Chas. D. Cleveland, secretary-superintendent of the Madison Square Garden Poultry Show, New York City. With the watch Mr. Atherton was given a handsome scroll, bearing the following wording:

"We, the undersigners, appreciating the long and faithful service rendered by Mr. W. B. Atherton, as secretary and manager of the show, remembering his uniform courtesy and strict impartiality toward all, do hereby subscribe the amount opposite our names for the purpose of providing a substantial token of our esteem, to one who has made the Boston show a leader among the great feathered exhibitions in America, and who has done splendid service to maintain the highest ideals in standard-bred culture. 'May the years of time you have devoted to the American Fancy in the past be 'timed' even more happily in the future.'"

No contributor was allowed to pay more than one dollar and the list contained the names of numerous well-known specialty breeders, poultry journal men and other active friends of poultry culture. Mr. Atherton was much affected by this kind act of appreciation—in fact, for two or three minutes he was unable to reply to Mr. Cleveland's well-chosen words. All told, it was a pleasant occasion, one that long will be remembered by Mr. Atherton and all friends who were present.

SHOULD STUDY THE POULTRY ADVERTISEMENTS—THEY ARE INSTRUCTIVE

Readers of A. P. W., especially those who are producing standard-bred poultry and eggs for sale, should study the advertisements of such past masters as E. B. Thompson, Maurice F. Delano (Owen Farms), H. Cecil Sheppard, Lester Tompkins, W. D. Holterman, D. W. Young, John S. Martin, A. C. Hawkins, Chas. V. Keller, H. W. Halbach and other large-space users like them.

These men know how to PRODUCE choice-quality, standard-bred fowl and they know ALSO how to sell them. Not only do their advertisements make "mighty interesting reading," but their annual catalogues and mating lists are equally instructive.

How have these men WON SUCCESS in the standard-bred poultry business and how are they maintaining it? To raise choice birds is one thing; to sell them at profitable prices is a different matter, but one of equal importance.

In this connection we recall how D. J. Lambert, Apponaug, R. I., now poultry instructor at the Rhode Island Agricultural College, Kingston, used to "study" the advertisements that were published in the poultry press. He and a companion would take turns in calling back and forth the names of prominent advertisers

and their home towns. One would call the personal names and the other then would tell where each prominent advertiser

We Want To Know Your Method of Care and Management of Your Chicks for the First Four Weeks

Thousands of A. P. W. readers are interested in the same question and would greatly appreciate your advice on this timely and interesting question.

Wont you sit down, today, tomorrow never comes, and tell us all about it. Write it in your own way. It is the personal touch that adds interest and makes your reply worth while.

Help others to succeed by telling how you have accomplished success.

WHAT HAS BEEN YOUR GREATEST OBSTACLE IN SUCCESSFULLY BROODING CHICKS?

lived. Next, the other would mention each town and his companion would try to give the name of the poultry breeder who lived there.

Study of this kind counts! It is an example of the degree of interest men and women must take in the standard-bred poultry business, if they are to achieve noteworthy success.

The individuality of a man can be found in his advertisements and sales literature—in fact, the MAN is there, unless his advertisements and printed matter are the work of some one else, which is not often the case in the poultry business.

THE MAN WHO PRODUCED A RHODE ISLAND RED THAT LAID 309 EGGS IN THREE HUNDRED AND SIXTY-FIVE DAYS

At the Boston show we had the pleasure of a long visit with H. W. Sanborn, proprietor of Sanborn Farm, West Mansfield, Mass., originator of Sanborn's Pedigree Single Comb Rhode Island Reds, a prolific egg-yield strain of "Reds" to which Mr. Sanborn has been devoting close personal attention for a period of nine years. By trap-nesting and careful pedigreering he has developed a strain of remarkable layers, one hen of which holds the world's record for Rhode Island Reds, to wit, 309 eggs laid in trap-nests in three hundred and sixty-five consecutive days. We quote briefly from Mr. Sanborn's latest circular:

"Nine years ago I engaged in the poultry business for profit, making egg production my



1st Cock, New York State Fair, 1914



1st Pullet, Grand Central Palace, N.Y., 1914

Hatching Eggs and Day Old Chicks FROM THE "MILLION EGG FARM" 5000 S. C. White Leghorn Eggs Per Day

You can get fresh S. C. White Leghorn hatching eggs shipped when you want them fresh laid in a single day. These eggs are laid on the RANCOCAS POULTRY FARM by choice, selected, fully matured hens, bred for high egg production. Every breeder of our big, husky Rancocas strain—"The Laying Line"—has the style and finish of Standard Leghorns

100 PER CENT FERTILITY Over 1100 customers in 41 states bought 146,000 hatching eggs from us last season. This year we can supply 200,000 hatching eggs—everyone with a guarantee behind it of 100 per cent. fertility. No orders to small or none too large—all customers get the same quality and service. Don't wait until the rush season is on, but let us book your order NOW.

DAY OLD CHICKS—DELIVERY GUARANTEED A live chick guaranteed at your express station for every one ordered. All chicks sold are from eggs laid on our own farm and hatched just like the chicks we keep to supply our own flock. Order early for even with our enormous incubator capacity and large flocks of layers, we cannot always fill orders unless booked ahead. Order today and make sure of getting chicks when you want them.

Send today for free booklet, giving prices of S. C. White Leghorn hatching eggs and day old chicks, produced at RANCOCAS POULTRY FARM—"The Million Egg Farm".

PRIZE WINNERS We breed winners for such shows as Madison Square Garden, where we won first pen, February 1915, New York State Fair, winning the Harriman cup for the best display of Leghorns, Buffalo, winning four first prizes, and winners of high awards at Chicago, Boston, Philadelphia, and St. Louis. These winners and others just as good are mated in special pens. Our special mating list gives full description of these winning birds. This booklet is of great value to anyone interested in exhibition breeding. Send for free mating list.

RANCOCAS POULTRY FARMS, Box 610, Brown's Mills, N. J.



FASHION PLATE BUFFS

Trap-nested for heavy egg yield, line-bred for vigor and to win—three in one, a triple value not found outside the FASHION PLATES.

We have the cleanest lot of Head line breeders—February and March hatch that were ever offered.

Exhibition birds sold at real value, conditioned and trained without additional cost.

Tested breeders that have the blood lines to produce the best. Utility fowls raised from trap-nested families, at almost food prices—all sold guaranteed to please.

Send for the FASHION PLATE BOOK illustrated from cover to cover, contains description of all surplus stock with price attached; matings, eggs for hatching, etc. FREE.

A. E. MARTZ,

(Buff Orpington Specialist)

Box E,

ARCADIA, IND.

chief aim, using trap-nests and selecting only the heavy layers that are vigorous and always healthy as breeders. I have been successful in developing a heavy-laying strain of Rhode Island Reds that are proving very profitable egg producers. These heavy-laying qualities have now become a fixture, after nine years of persistent selection from my very best layers."

Mr. Sanborn has conducted this work at large expense, especially in the labor and time required. A. P. W. congratulates him on the success achieved. Very few poultrymen in this or any other country have equalled his record to date—and the end is not yet.

At Boston, Mr. Sanborn showed a string of his best-colored birds in the utility class and he was awarded a lion's share of the prizes, including several firsts. His birds to date are not bred for exhibition purposes, but have excellent type and the best of them are of quite good color. His latest circular will be mailed free to A. P. W. readers on request.

A VETERAN OF THE POULTRY WORLD ENDORSES WORK BEING DONE BY A. P. W.

Afton, N. Y., Oct. 28, 1915.

"Editor American Poultry World:—
"I am glad that there is one poultry magazine that has the courage to advocate Score Card judging. For thirty-five years I have been showing Polish at several large shows, beginning at Madison Square Garden in 1886. I have score cards made out by R. G. Buffington, by Bicknell, Felch, G. O. Brown and Nevius. Those cards were an education to me when beginning with Polish. They showed me where my birds were defective and I returned home to try again. At Utica, N. Y., in 1888, I won special for best pullet in show of any variety on a W. C. B. P. (score 97). Now the score card was what I went by to raise my show birds and I hope I may see the smaller shows all over the country adopt that plan.

"I K. Felch has been a strong advocate of score card judging, but of late years he has had no support from the poultry press. I have made sales in years past, when I offered to sell a prize bird and send the score card from the show where I had exhibited. Those cards were cash to me in making sales. What we want is better judges—men who can tell the true value of a bird when they look it over; not a boy who has been to some college and judges just by looks. The beginner in poultry raising is the one that benefits, and to induce him to attend a show we shall have to adopt the score card plan of judging. I do not care to have my own birds scored, but I would like to have those I sell to beginners scored, so they may know just how good a bird they have.

"Your expose of the baby chick industry is what the general public should know about; also the large poultry farms that are more or less a myth. They have been doing business for years and nothing has been said by the poultry papers.

"Respectfully yours,
"CHAS. L. SEELY."

Mr. Seely doubtless has read ere this that the following resolution was unanimously adopted at the American Poultry Association convention at the Panama-Pacific International Exposition last November:

"RESOLVED, that this association in convention assembled at San Francisco, Calif., November 19, 1915, hereby expresses its strong approval of the use of the official

score card of the A. P. A. at a great majority of the poultry shows or exhibitions held annually in the United States and Canada, with the possible exception of large sweepstakes shows (that, as a rule are patronized mainly by experienced or professional poultrymen.
"Respectfully submitted,
"GRANT M. CURTIS."

THE OLD, OLD ARGUMENT IN FAVOR OF CAR-LOT "STRING-MEN" WHO CARRY AWAY THE PRIZE MONEY AT FALL FAIRS

Asbury Park, N. J., Nov. 25, 1915.
Editor American Poultry World,
Buffalo, N. Y.

Dear Mr. Editor:—
In looking over November issue of American Poultry World, I found on page 16 an article headed, "Are the Fall Fair Huckster Show-men Or 'String-men' a Benefit or Otherwise," and after reading your article very carefully I feel like writing a few lines in behalf of the much-abused "string-men."

For nine years I was employed by one, and I was in charge of a carload of poultry every fall, going from one fair to another in a "side-door Pullman", L. V. or C. R. R. 69-723, or some other number, and I used to meet the local man at the fair who brought his chickens in a wagon, also the specialty man who shipped his birds by express, and who came himself in a regular standard Pullman car, with an upper or lower berth, sometimes even a whole section.

If I chose to come via side-door parlor car and sleep on a cot between two rows of chicken coops and wake up in the morning with my ears full of shavings, etc., I consider that was my business, and if the specialty breeder came in a regular Pullman car, that was his business.

Furthermore, as the premium list had specified, "Competition open to the world," also had stated when entries would close and named the different varieties that were classified, if we both paid our entry fee, I contend that the string-man had as much right

as anyone to be there, regardless of how he got there.

It is true the string-man buys birds to show (and good ones), but so also do the local man and the specialty breeder, while some of your prominent advertisers say, "Winners furnished for any show in the world." The string-man shows to win the cold cash which comes in handy for feed, freight bills, etc. The local man shows for

ROSE COMB LEGHORNS AND WHITE PLYMOUTH ROCKS

Bred for fancy and utility, excellent winter layers and sure winners. Write for prices. Eggs for hatching. Stock for sale. Edward J. Turner, Box E, Springvale, Maine.

Laywell White Wyandottes

Bred for vigor, laying ability and exhibition quality. Pens mated by Arthur G. Dutton. Made clean sweep at the Vermont State Fair 1915.

Eggs from pens 1-5, \$5.00 per 15.
Eggs from pens 6-11, \$2.00 per 15.
Utility matings \$1.00 per 15, \$5.00 per 100. Send for new circular and mailing list.

LAYWELL POULTRY FARM
Box E, Lyndonville, Vermont, U. S. A.



Rowans Black Spanish

Blue ribbon winners at America's leading show Panama-Pacific, Boston and Madison Square Garden, Chicago. If you want stock that will win in any competition I can furnish your needs.

If you want eggs that will hatch prize winners I have the quality you want.

Try Black Spanish

They are healthy, vigorous and prolific layers of large white eggs. Hatching eggs \$5.00 per thirteen. Each additional thirteen \$4.00.

R. A. ROWAN LOS ANGELES, CALIF

FAIR-ACRES ROCKS

WIN AT THE GREAT BOSTON SHOW

White Plymouth Rocks. Buff Plymouth Rocks.
First pen Buffs and 6th pen White. Also at Wakefield, Mass., 1st cockerel, 2nd cock, 1st, 2nd and 3rd pullet, 1st pen Buff Rocks, 2nd and 3rd pullet, 1st pen. Silver cup and gold special on White Rocks.

SOME REAL BARGAINS in breeding and exhibition stock. **DAY OLD CHICKS** and **EGGS FOR HATCHING.**

WRITE ME FOR PRICE LIST BEFORE BUYING ELSEWHERE

HOWARD P. SOULE, PROP.

MILLIS, MASS.

LAY-EGG-HORNS



This is a fitting name for our single comb White Leghorns.

But why shouldn't they excel as layers? They have been bred for this title for years. Let us send you eggs and chicks from birds that have shown results—that have earned money for us, and will earn money for you. Big hardy birds bred on 100 acres of farm range.

Hatching Egg	Day-Old-Chix.	Four-Week-old-Chix.
\$6.00 per 100	\$14.00 per 100	Eight-week-old Chix.

WRITE FOR DESCRIPTIVE BOOKLET

THE PROPO FARMS

LORELEY, BALTO CO., MD.

SWEEPING VICTORY AT MADISON SQUARE GARDEN, JANUARY 1916

INTERNATIONAL PARTRIDGE ROCK CLUB SHOW. NATIONAL BRONZE TURKEY C. SHOW

PARTRIDGE ROCKS. Win 4 of 5 firsts, 11 other regular prizes and 25 of 36 specials. Make 6th consecutive and greatest win ever made at Madison Square Garden. Stock always for sale. Eggs. Catalogue for stamp.

BRONZE TURKEYS. Win every first, 12 other regular prizes and 16 of the 18 specials. Make 9th and greatest win ever made at Madison Square Garden. Stock always for sale. Eggs. Catalogue for stamp.

BIRD BROTHERS

BOX 14

MEYERSDALE, PA.

glory, and the specialty breeder shows hoping to win so as to advertise the fact and get the cold cash through future business.

I take exception to the fifth paragraph of Louis R. Murray's communication, in which he says that as a rule the string-men do not make their entries until the first day of the fair, after looking over the caged entries, and then enter their specimens where they will be most apt to win.

I contend that they invariably send their entries in ahead of closing time and can prove it by secretaries' books, and also by some who were in the game when I was, and who are now prominent, some as poultry judges, others in poultry journal work, some in Uncle Sam's employ.

If you care to investigate, you will find on the home plants of a good many of these string-men facilities and houses for keeping and breeding the number of varieties which they carry, and you will find that they raise quite a few, too.

Not wishing to take up any more valuable space, I will close, saying, "Play fair, give every devil his due, and hew to the line, let the chips fall where they may."

Yours sincerely,

THOMAS LOCKWOOD,

R. D. No. 2, Asbury Park, N. J.

You have said it, Mr. Lockwood! You call it "a game" and you admit that the string-men are "in it" for the "cold cash". That is the height of their ambition. The other two classes you mention do buy birds to show, (seldom a full "string") but we need not waste space pointing out to you the difference between them and the string-men, nor in reciting the fact that the latter is not and does not pretend to be a "breeder" in the sense in which the word is commonly used in the poultry business.

That last word marks the wide difference between the two classes of exhibitors—the "local man" and "specialty man", as you call them, and the string-man. To the former it is a business, either a side line or their main business; to the latter it is a "game" to be won—somehow.

It is not a question of transportation of men or birds, Mr. Lockwood, it is a matter of morals, of fair dealing, of what is for the best good of the Standard-bred poultry business. Many a man has been too poor to accompany his birds to a show, yet has been honored for his production of prize-winners, and by conducting a legitimate business, breeding and improving his birds, he has reached a point where he earns a good living and a right to be numbered among the leading poultry breeders of the country.

The main point, however, Mr. Lockwood, is this: The many thousands of dollars that each summer and fall are appropriated and expended by fair associations, small and large, should go as prize money into the hands of legitimate breeders—especially into the hands of local men, county and state, thus encouraging them and helping to make it profitable for them to produce standard-bred fowl and to become breeders of noteworthy success. It is both wrong and foolish for these semi-public associations, representing county and state money, obtained from taxes or otherwise, to arrange matters or to conduct fall fairs in such a way that not only this immense sum of money in the aggregate shall go to "traveling showmen", but that local poultrymen and women shall be deprived of this money, also of the honor and advertising value that would attach to the prizes awarded at these fall fairs, if they went into the right hands.

Therefore, with the object of helping all reputable, bona fide poultry breeders and thereby "to protect and promote the

standard-bred poultry industry of the United States and Canada," the following resolution was unanimously adopted by the American Poultry Association in convention assembled at the Fortieth Annual Meeting, San Francisco, California, November 16-18, 1915:

"RESOLVED, that a committee of three to consist of the in-coming President and two other members to be selected by him and announced at this Annual meeting shall be and is hereby appointed with instructions and authority, as representing the American Poultry Association, to investigate fully and carefully all forms of poultry huckstering as now practiced, including the advertising and sale of adult fowls, eggs for hatching and day-old chicks, also the exhibition of large numbers or "strings" of miscellaneous Standard-bred fowls as made at numerous State, District and County Fairs where cash prizes in large aggregate amounts are paid annually for the purpose of enlarging these exhibitions and encouraging an increased production of choice pure-bred fowl, as described in the American Standard of Perfection; also be it

"RESOLVED, that said committee hereby is authorized and directed to do the necessary traveling, as may be required, to secure reliable information and data in carrying out the provisions of this resolution and that a sum not to exceed five hundred dollars (\$500.00) shall be included by the Finance Committee in the Annual Budget for the ensuing year for use in defraying the expenses of this committee, including stenographic help, stationery, postage, etc., and be it further

RESOLVED, that this Committee shall make as full and complete a report as it can at the 41st Annual Meeting of this Association to be held in 1916, with detailed recommendations for such action on the part of the American Poultry Association as it believes will prove beneficial to the Poultry Industry of the United States and Canada, in keeping with the objects of this organization as embodied in its Constitution and Laws.

EDITORIAL NOTES

CHAS. H. Wood, 340 Main St., Worcester, Mass., proprietor of Woodcrest Poultry Farm (farm located at Shrewsbury, Mass.) one of our leading successful breeders of Partridge Wyandottes, was in attendance last month at the Boston Show. Birds bred by Mr. Wood have been foremost winners at the Boston exhibition, also at Madison Square Garden and other prominent ex-

hibitions. At Woodcrest Farm he raises in the neighborhood of two thousand birds each season and a large percentage of them are of truly choice quality. He is in a position, therefore, to furnish trustworthy breeders, also reliable eggs for hatching. For years Mr. Wood has been a loyal and consistent champion of the Partridge Wyandottes, and at the Chicago convention of A. P. A., August, 1914, he rendered valuable service in protecting the Standard description of

COLUMBIAN WYANDOTTES

Twelve firsts at three 1915 shows, also 1st pullet, cockerel, cock, pen and 4th hen Brooklyn Show. Choice breeding stock for sale. Correspondence invited.

HORSESHOE POULTRY YARDS
Hicksville, L. I., N. Y.

YANT'S BARRED ROCKS

Won the Diamond Special for Best display at the Chicago Coliseum, December, 1914. They are the kind you have long been looking for. Write me

JOHN W. YANT, Route 24, CANTON, OHIO



MILLER'S SPANISH

Better than the rest. No more stock for sale until June. Eggs 1-2 price after May 15th.

FRANK MILLER,

Box W, CRESTLINE, O.

SEND FOR 1916 YEAR BOOK

OF THE NATIONAL WHITE WYANDOTTE CLUB

Don't buy stock or eggs or decide upon a breed until you have seen this book. A safe guide to the buyer and beginner. By mail for six to two cent stamps.

S. C. BABBLE, Sec'y. New Cumberland, Pa.

Another Taylor Columbian Rock Win

At the Chicago Coliseum 1914 Show

I guarantee to please you. Mating list on request. Choice Cockerels and Pullets for sale.

JAS. H. TAYLOR

R. R. 5, WOODSTOCK, ILL

MERIH EW'S BUFF LEGHORNS

In the greatest Buff Leghorn classes of the year at Madison Square Garden and the Panama-Pacific my birds won 10 regular prizes and two specials. Still have some choice stock for sale. Eggs at \$3 to \$10 per setting from selected matings. Other matings \$3 per 100.

L. E. MERIH EW,

MARATHON, N. Y.

AT THE GREAT ROCHESTER SHOW 1916

On rose combs win best display. First cock, second cockerel, color special, second pullet, fourth hen, third young pen, no old pen shown. On single combs fourth cockerel, second pullet, fourth hen, fifth young pen, no old pen shown.

These winnings on an entire different string of birds than our State Fair and Greater Buffalo winners.

Our mating list is ready, write for one, some grand cockerels left for sale at bargain prices, both combs.

RED W. FARM,

Wadsworth & Caster,

Wolcott, N. Y.

Harter's Imperial Golden Buff Rocks

Harter's Buff Plymouth Rocks have a national reputation as winners at the leading shows of the country. Line bred for years they are equalled by few and surpassed by none.

This season I have not exhibited and I have the finest matings that I ever put together. Matings that will produce for you the quality that will put you among the winners at next season's shows. Eggs from these matings at \$5 and \$10 per setting. Send for mating list. I still have some choice stock for sale.

NESCOPECK POULTRY FARM

S. H. HARTER, Prop.

Box W.

Nescopeck, Pa.

LENROC REDS

Yes, we won first cockerel at the Palace, New York, December, 1915, in a class of 56, and second cockerel at the Great Panama Pacific in a class of 64. Three firsts at Hagerstown, Md. three firsts Toronto National. All of above in addition to other winners will be in our breeding pens this season. Eggs for hatching after January 15. Get a Lenroc Red and Win.

HOUCK & ALT,

BUFFALO, N. Y.

HENRY ALT, 87 Fuller St., Buffalo, N. Y.

JNO. E. HOUCK, Black Creek, Ont.

the Partridge plumage of Standard-bred fowl, thus advancing the best interests of the variety of his choice. Mr. Wood is a man on whom A. P. W. readers can depend fully in all dealings they may have with him as a specialty breeder of the beautiful Partridge Wyandottes.

A. P. W. again calls attention to the fact that Chas. V. Keeler, Winamac, Ind., publishes and mails free on request one of the most interesting and helpful poultry catalogues devoted to his specialty, the White Wyandottes, that is sent out by any poultry breeder of the United States or Canada. Mr. Keeler has been breeding White Wyandottes for twenty-one years and has produced many high-class specimens. He tells us that he is giving special attention to prolific egg-yield, reporting that pullet-hens of his production have laid as high as 265 eggs in trap-nests in 365 consecutive days. Moreover, he reports that he has upwards of fifteen hundred valuable birds for sale, females ranging in prices from \$5 to \$25 each, and male birds from \$5 to \$50 each. As a rule, the highest priced birds in all such cases represent the greatest value, first cost considered, and almost without exception it is better for the "investor" to buy a less number of choice birds rather than to sacrifice quality to numbers. Numbers can come later! A trio of correctly-mated, extra choice birds can be made to produce fifty to one hundred high-grade specimens in one season, whereas a pen of ten mediocre specimens, for example, bought at the price of the trio, would not produce a single high-class bird, not one. Furthermore, if you, reader, cannot afford the price of a high-class trio, then "trust your luck" to hatching eggs from the best matings owned by these successful specialty breeders. Often by this means you can purchase "quality" in the form of established blood lines, representing choice specimens that the owners are not willing to sell at any price, or words to that effect. If you want the "real thing" in standard-bred fowls, **START RIGHT** by buying top quality in either fowls or eggs, then take Father Time into partnership with you as regards numbers. "Numbers" will come later, but if you start with poor quality it will take you a long time to reach the front rank, or anywhere near it—and you may never get there.

Vincent's Buff Rocks Win

My recent record at MADISON SQUARE GARDEN prove conclusively that my Buff Rocks are equal to the Country's best. In competition with America's best I won 1st. pen, 4-5 cock, 1 hen, 2-3-5 cockerel 2nd. pullet. These winners now in the best matings I ever owned. Stock or eggs. Send for mating list.

James H. Vincent

Box W.

Hazelton, Pa.

LADY SNOW 286 EGGS



A few of her cockerels to offer. No pullets.

Cockerels from our 226 egg pen including four hens with egg record above 230 eggs.

Baby chicks and eggs for hatching from twenty pens of trap-nested yearlings and two year olds, everyone a profitable producer. No drones. Stock old and young to offer at all times. For further information address

UNDERHILL FARMS BOX W. FORT ANN N.Y.

WHATGLEN FARM

S. C. BLACK MINORCAS EXCLUSIVELY

Through our win at MADISON SQUARE GARDEN, December 31st, 1915, to January 5th, 1916, we can justly claim the title for our strain of birds as "CHAMPIONS OF CHAMPIONS".

In the hottest competition and largest class of Minorcas that has ever been exhibited at the Garden, we won the following: Cocks 2nd, 3rd, 5th; Hens 1st, 2nd, 3rd, 5th; Cockerels 1st, 2nd, 3rd; Pullets 1st, 3rd, 5th; Pens 1st, 2nd, 3rd, 5th, also the following cups; cup for best colored male, cup for best colored female, cup for best male in head points, cup for best display and cup for largest entry and out of 31 cash specials offered we won 17: a record that we believe has never been approached by any Minorca breeder at the Garden. Write us your wants. Our handsome catalogue will be mailed upon request.

Frank McGrann, Prop.,

Hiram Demmy, Jr., Mgr.,

Lancaster, Pa.

P. O. BOX 417

Homestead Silver Campines

The Vigorous Strain

Open the winter show season by making a most sensational record at the

GRAND CENTRAL PALACE, NEW YORK, DECEMBER, 1915

The largest winter show ever held in America in one of the most select classes of Silver Campines shown to date, F. L. Platt, Judge.

The complete record follows:—First and fourth cock; first and second hen; first and fifth cockerel; second and fourth pullet; second exhibition pen; best display. This with their record at the **New York State Fair**, September, 1915 of 1-4 hen, 2 cock, 3-5 cockerel; 2-3 pullet, 1 pen old, 2 pen young, 2nd display, and their great win of thirteen regular prizes including four firsts, five specials and best display at **Boston last winter** puts "The Vigorous Strain" at the front as the leading exhibition strain of America.

The comment on the quality and condition of our birds was as follows—**wonderful!**

We have many more good birds at **Homestead Campine Farm** and if you are interested we shall be pleased to send you one of our catalogues.

Homestead Campine Farm, Box W, Wayland, Mass.



FIRST PRIZE SILVER CAMPINE PULLET
BOSTON SHOW, JAN. 1915
HOMESTEAD CAMPINE FARM, WAYLAND, MASS.

THE exhibit of commercial or market poultry at the recent Boston Show was probably the best ever held in this country. More will be said on this subject in later issues. The exhibit was in charge of John C. Graham, Professor of Poultry Husbandry, Massachusetts Agricultural College, Amherst, and he had valuable assistance from his associates, including Loyal F. Payne and Alfred G. Lunn. The exhibit consisted mainly of four parts: A utility class of live fowl, a large display of prime dressed fowl, many examples of select eggs as to size, shape and color, and numerous poultry fixtures and practical "ideas", as shown in miniature form, as models, etc. Best of all, truly great interest was taken in this display—all features of it. The character and success of this so-called utility exhibit again demonstrates the fact that "the man is everything," so to speak. Exhibits of this kind are certain to increase in number and value. To date Boston and New York appear to be in the lead, so far as the United States is concerned. For several years Canada has had the honor of making the best exhibits of this character.

—o—

BY a mistake on the part of the editor, the award of sixth prize on pullet in Buckeyes at the Panama-Pacific Poultry Show was credited to E. C. Mahon, Norwood, Tenn., whereas in fact this prize was won by Wm. Scott Doig, Boise, Idaho. The winnings of Mr. Mahon, Buckeye specialist, were as follows: cock, first second and fifth; hens, first, second, third and fifth; cockerels, first and second; pullets, second, third and fifth and first pen. We regret the mistake and are glad to give credit to Mr. Doig for his winning. He is a member of the American Buckeye Club and an earnest advocate of the virtues of this new breed of American origin.

"ZENOLEUM"

Readers of A. P. W. desiring to procure a reliable and effective disinfectant should look up the announcement of the Zenner Disinfectant Co., 532 Lafayette Ave., Detroit, Mich., in another column in this issue. This preparation is always popular with poultry raisers and also has the endorsement of 50 agricultural colleges, so we are told. It is sold under a money back guarantee so that you run no risk in giving it a trial. The Zenner Company have compiled a 64 page book of poultry and stock diseases that they are anxious to send to everyone interested in keeping their houses and chickens clean and sanitary. Cleanliness means health and no poultry houses can be kept in the proper order without the frequent use of a reliable disinfectant. Why not start on the road to cleanliness today by ordering a trial can. Kindly mention A. P. W. when writing.

FEEDING POULTRY FOR PROFIT

The Edwards & Loomis Co., 344 Z. No. Elizabeth St., Chicago, Ill., are circulating a free book of the above title that should be in the hands of every poultry raiser. T. E. Quisenberry, F. S. Horner, Miller Purvis, J. O. Linton, and Frank Heck each contribute chapters on the highly important subject of feeding poultry for profit, and they have not overlooked any phase of the question. Some of the subjects treated are as follows:

"Feeding chicks from the shell to the Gravy."

"Feeding for fertile Eggs."

"Problems of Feeding."

"Feeding to produce hens for Laying."

"The care of the general flock."

Quite a wide range is it not and one that covers the feeding question thoroughly. With all of this information available upon request there is not a reader of A. P. W. but that should take advantage of the opportunity and secure a copy of the book.

PARKS INCREASES CAPACITY

On account of the constantly growing demand for Park's Barred Rocks,—the Rocks with a reputation for prolific egg production. J. W. Parks, Altoona, Pa., has found it necessary to add a large amount of new equipment included in which is a new brooder house of large capacity. Mr. Parks was one of the first to pedigree and line breed Barred Rocks with the view to establishing a strain of heavy layers and his success has attracted so much attention from breeders in

all sections of the country that he finds it difficult to keep abreast of the growing demands for his strain. In developing the egg laying characteristic he has not overlooked standard qualities as his record at many prominent shows will prove. For full particulars regarding this valuable and profitable strain of fowls we would suggest that you send for a copy of his catalogue today. A few Park's strain Barred rocks might mean an added income to you. They are worth investigating.

**STOP
LOOK
READ**

We have recently acquired by purchase the entire flock of Manhattan Farms Campines, both combs, including their famous winners. The quality of this flock is too well known to need description here. This stock is now on our farm and we are prepared to supply EGGS, BABY CHICKS or BREEDING STOCK. More than 500 head to select from. Some rare bargains. Write us for full information. We can save you money.

McDONOUGH & BIDWELL,

Box W,

NEWARK, N. J.

Young's Strain Single Comb White Leghorns

YOUNG'S Strain is acknowledged throughout the World as being the STANDARD for ALL THE LEGHORNS and the LEADERS of HEAVY LAYERS. It is the original line-bred Strain of Leghorns in America today.

The One Strain That Has Made Good

For many years it has been a known fact throughout the United States and Canada that it has been impossible to win without my strain. It has won and is still winning the blues for my thousands of customers.

Such a letter as the following tells its own story, as to my dealings, and I have hundreds more of them:

D. W. YOUNG, ESQ., St. MARYS, ONT. CAN., NOV. 5, 1915.
Monroe, N. Y.

DEAR SIR:

The several settings of eggs I purchased from your Pens, Nos. 1 and 2, brought fine results. Both cockerels and pullets show their choice breeding, and I am fully satisfied with results. It is some eighteen years, since, as a boy, I first purchased Leghorns from you, and your straightforward and generous treatment of customers has always given entire satisfaction, in so far as it was in your power to do so. You have the goods, and you deliver the goods, both at the big shows and to purchasers of stock and eggs. Your splendid success serves you right. Thanking you for your generous treatment, I am,

(Signed)

J. GEORGE MILLER.

The show season is here. If you are going to exhibit, you must have the best to win. Why not come to headquarters and get the best? My stock has outclassed itself in quality this season. My birds have never been so superb or shown such perfect health and form. I am offering and selling the finest, most beautifully finished birds now, that it has ever been my pleasure to offer. Hundreds of yearling hens and grand cockerels for sale at reasonable prices.

WRITE ME for quotations and I can please you from the best the world produces. Mating list describing the most wonderful S. C. White Leghorn breeding pens ever put together free, if you mention A. P. W.

(The show specimens have always been chosen from the best layers, a point worth noting.)

D. W. Young, Box E13, Monroe, N.Y.



ARTIFICIAL INCUBATION

By F. T. Finch

(Continued from page 259)

owing to the increased amount of animal heat given off by the growing embryos. With hanging thermometers the mercury should be held at 103 degrees F. while with the contact thermometers the heat should be increased to 103 degrees F.

The temperature should be maintained as near 103 degrees as possible up to about the eighteenth day, when it may be allowed to rise to 104 degrees F.

Moisture and Ventilation

Oxygen is essential for the normal development of the embryo chick, the amount required increasing with the growth of the embryo. The eggs give off carbon dioxide, which is formed in the developing chick by the combining of carbon and oxygen, and this increases in amount as the embryo grows. The eggs need, therefore, only a comparatively small amount of air the first few days, as only a small amount of carbon dioxide is given off at the beginning of incubation. It is asserted by some authorities that the natural amount of carbon dioxide given off by the eggs is beneficial on the ground that it aids in dissolving the carbonate of lime in the shells. Some experimenters go so far as to assert that it is really necessary for the successful development of the embryos. The writer is not yet ready to indorse this statement.

Excessive ventilation permitting a rapid circulation of air in the egg chamber, would result in rapid evaporation of the moisture. Hence, for normal development it is necessary to provide moderate, well controlled ventilation throughout incubation, or at first to check ventilation and then to increase it as it becomes necessary. With either method it is essential that moisture be present to prevent undue evaporation. When the ventilation is checked it is not considered as necessary to supply moisture, because evaporation takes place much more slowly when the change of air in the egg chamber is lessened than when it is increased. The amount of evaporation of the egg contents may be controlled very successfully by maintaining a proper degree of humidity in air that is taken into the machine. The humidity under a sitting hen usually registers about 60

degrees. If a non-moisture machine is operated in a room in which the air is dry owing to climatic conditions, or in which several incubators are being operated, it may be necessary to supply moisture.

Supplying Moisture

Unless the manufacturers so direct, moisture should never be supplied in an incubator. If non-moisture machines are operated in a dry place, the floor of the room may be wet unless it is of wood, in which event pans containing water may be placed under the machines. The amount of moisture exhaled from a surface in a given space of time is governed by the extent of the surface and not by the depth of the receptacle. This principle should be remembered when supplying moisture in a room or in an incubator. With machines in which arrangements have been made for supplying moisture, certain days should be set for looking after the supply in order to avoid a possible chance of the moisture receptacle becoming dry. Moisture on the glass at pipping time usually indicates a good hatch, being due to the large amount evaporated from the chicks.

Controlling Ventilation

In some cases ventilation is controlled by slides over the ventilator openings, which are usually in the bottom of the incubator. With such machines it is a

DEER'S QUALITY White Plymouth Rocks

Have proven their quality at the Louisville, Kentucky, Show by winning 1 hen, 4 cock, 2-3 pullet, 2-4 cockerel, 1 young pen, 3 old pen, best display in the American class. Write for mating list.

F. L. DEER, Box A, Franklin, Ind.

Cultivate Horse Radish

GARDEN, FIELD OR FARM
Increasing demand, large profits. 100 roots sets with full information \$1.00. Write for list of our \$1.00 friend makers, consisting of all kinds of fruit trees, berries and roses.

EGGS WANTED

In payment for nursery stock.

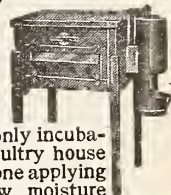
VALLEY FARM CO., NEWBURGH, N. Y.

Mandy Lee

The Incubator of Certainty

Operated by rule. The novice gets the same excellent results as the experienced operator. The only incubator with the open-front poultry house plan of ventilation. Only one applying the vital principle of low moisture with high temperature and high moisture when heat runs low. All regulated automatically. Send for latest book, describing the new features—plain, practical, helpful.

Also ask for free Poultry Book and name of your nearest dealer.
GEO. H. LEE CO., 308 Lee Bldg., Omaha, Neb.



"PREMIER" PARTRIDGE WYANDOTTES

Won every 1st at the Palace Show, N. Y., four 1sts at Cleveland, three 1sts at Madison Square Garden, four 1sts at Boston (December 1915 and January 1916) and our customers did practically as well. If you want to win with this 20th Century Breed you must have the "Premiers". Breeding and exhibition stock at reasonable prices. Eggs \$5.00 per setting of 15. Illustrated book free.

SHEFFIELD FARM, H. B. Hark, Mgr., Poultry Dept., GLENDALE, OHIO



VELVETISE FILLERS

with a velvet touch, viselike grip, saving the wrapping of Hatching eggs

Shipping Coops—Steel top, bottom and corner irons, heavy fibre board sides, easily opened, closed and cleaned, no nails or tape. Will last for years, gives distinction to the birds, made in five sizes. Small size 12 x 16 x 18, 50c F. O. B. Factory.

One Quart Fibre Sanitary Drinking Fountains and Feeders 75c per doz.

Baby Chick Boxes—Easily put together, positive air without drafts, can be regulated for any time of the year, chicks

cannot crowd, keeps them moving, arriving at destination healthy and strong. Sample, small size, postpaid 20c.

Hatching Egg Boxes—Constructed of one piece except pads, equipped with Velvetise Fillers. Sample, small size, postpaid 20c.

ADDRESS DEPT. F.

HARTLEY STEEL CRATED BOX CO.,

SAGINAW, MICH.

AT MADISON SQUARE GARDEN 1915-'16

Our CHAMPION, SENSATION and RED PRINCE Strains

Of Rose and Single Comb Reds WIN 4 BLUES, (more than any other exhibitor), INCLUDING 1st HEN, SHAPE SPECIAL, 1st PULLET COLOR SPECIAL, 2d PEN and 4th COCKEREL in Rose Combs. Also 2d BEST DISPLAY. 1st HEN, SHAPE SPECIAL, 1st PULLET in Single Combs.

AT BOSTON, 1916

SHAPE SPECIAL, (finest hen America), 4th and 6th COCKS, 3d PEN in Single Combs.

the most coveted win of 1st COCKEREL, also 3d COCKEREL COLOR SPECIAL, 6th COCKEREL, 1st HEN, SHAPE SPECIAL, 4th and 5th HEN, 4th PULLET, 2d PEN in Rose Combs. 1st HEN,

ELEGANT COCKS AND COCKERELS OF SAME BLOOD LINES FOR SALE

Mating and Price Lists now ready. Send Stamp

RED FEATHER FARM,

BOX 22, TIVERTON 4 CORS, R. I.

good practice to restrict ventilation the first week by keeping the slides closed, opening them gradually from the seventh day until they are wide open. The temperature of the room must be considered in regulating the ventilators, and the warmer the weather the wider they may be opened. Generally it is advisable to close the slides the nineteenth day. They may be opened again as soon as the hatch is completed, to admit plenty of fresh air. Some machines have additional ventilators to be opened only after the chicks are through hatching, these must not be mistaken for the ventilators to be used during incubation. Constant ventilation is provided in some types of incubators that are not fitted with slides. Such machines should never be tampered with. The necessity of following the manufacturers directions in regard to ventilation cannot be too strongly impressed on the minds of the novice.

Handling Eggs

The eggs should not be placed in the incubator until it has been run for several days and properly regulated, and all directions have been followed in regard to setting up, special attention having been given to the manufacturers' directions concerning ventilators, felts, trays, etc. Eggs of uniform size, shape, and color should be chosen so far as possible, and those with very porous or otherwise defective shells should be eliminated. A few more hours are usually required in hatching eggs from the heavy type of fowls than are usually required for Leghorn eggs, so that it is not advisable to set the two kinds of eggs together in an incubator.

Turning the Eggs

From the time the eggs become thoroughly heated until the chicks issue from the shells, more or less evaporation of the egg contents takes place. Consequently, there is a tendency for the parts next to the shell to become dried to the shell unless the egg is turned at frequent intervals. It is said that the sitting hen turns her eggs several times during the day and night, but conditions existing in artificial incubation do not admit of so many turnings. However, it has been found essential, to turn the eggs twice daily, beginning twenty-four to thirty-six hours after they are put in the incubator and continuing up to the nineteenth day, on and after which the machine should be kept closed. The additional fact that incubators, as a rule, do not supply the same amount of heat to each egg makes it doubly necessary not only that the eggs be well turned twice each day, but that their positions on the trays be changed as regularly as they are turned. Regularity in turning has much to do with the success of the hatch. The best time to turn the eggs is the first thing in the morning and the last thing at night. This arrangement not only enables the operator to have a specified time for doing the work, but it keeps the turnings as far apart as is conveniently possible and equalizes the space of time between the turnings, two important factors.

Since the principal reason for turning eggs are (1) to prevent drying to the

shell and (2) to equalize the heat, it is necessary that the eggs be given a thorough shuffling. This may be done satisfactorily by rolling them around on the tray with the flat of the hands. They must not be shoved roughly against one another nor rolled harshly. The tray may be turned end for end at each turning of the eggs, and if two trays are used they may be interchanged at one turning and turned end for end the next time.

Cooling

The successful cooling of eggs during incubation counter balances, to some extent, the still imperfect methods of ventilation. To cool eggs properly, one must consider the length of time they have been incubated, the weather conditions, and the room temperature. It is not known just how much cooling is necessary for the best results, nor can a time table be made that will work successfully with all types of incubators and under the varying atmospheric conditions. But the fact, that eggs incubated by hens undergo more or less cooling and hatch well, makes it essential that those artificially incubated be treated correspondingly. Results prove this theory to be true.

It has been shown that excessive ventilation causes a too rapid evaporation of

FAIRMOUNT FARM WHITE WYANDOTTES are bred for standard requirements, constitutional vigor and their ability to lay nice brown eggs. Eggs from which you can start a fine, healthy flock at a small outlay. We have no other breed. Send for folder. Member of National White Wyandotte Club.
Fairmount Farm, Harrison C. Dawes, Marlborough, N. Y.

S. C. White Leghorns and R. I. REDS

Baby chicks and hatching eggs from stock that has been bred and raised on free range for years, which insures strong healthy chicks and eggs of high fertility.

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PETTIT BROS., WILSON, N. Y.



SEE

the Heat-Check between chimney and heater? It does the work of two eyes and two hands—busy all the time, and makes an incubator hatch eggs the same as hens do it. Costs \$1.00 each. Attach it yourself to any old incubator or one of latest model. Just as well adapted to heated brooders. Fully guaranteed. Send postal for full description.

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Agency 109,

Buffalo, N. Y.

SLADE'S BUFF ORPINGTONS

Winners Buffalo, New York State Fair and Rochester, 1914-15-16. Eggs from five of the grandest matings ever put together \$5.00 per setting. Utility eggs \$2.00 per setting, \$9.00 per 100. Book your egg orders today. A few exceptionally fine cockerels at \$5.00 and \$10.00 each. New Mating List FREE.

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Buy of a Specialist

Lisk's White Wyandottes are bred by a specialist. For years they have been bred for constitutional vigor, heavy laying and standard requirements. That they possess all these is proven by their record, both as egg producers and prize winners.

A Connecticut customer reports ten pullets with a monthly average of 213 eggs per month from January to June inclusive.

Do you want some of these? 500 well matured birds for sale.

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OCEAN TO OCEAN

BAKER'S BUFF ROCKS

Win First Prizes and Specials, Madison Square Garden, St. Louis, Kansas City, Topeka, San Francisco

At the World's Fair, San Francisco, the National Buff Rock Club Meet, I won 1st cock, 1st pullet, 2 seconds, 3 thirds, 1 fourth, 2 fifths, 3 sixths, 2 sevenths, 1 eight. All specials except one and the National Cup for America's Best. At Madison Square Garden, 1916, with a different string and only 4 birds, I won 1st pullet, 4th cockerel, 5th hen, the only breeder of Buff Rocks to show at both these two America's greatest shows this year. 6 grand yards. Circular free.

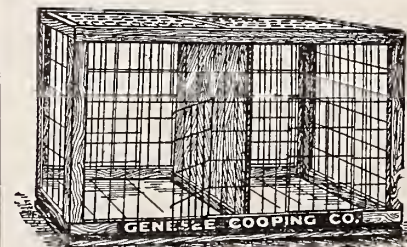
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Genesee Cooping Company

THE ALL METAL SANITARY COOP.



GEO. W. WEBB, Mgr.

Poultry Associations and the poultry press pronounce the Genesee system of cooping the most perfect in every detail. Write for photos showing the largest shows in the country in operation. Before contracting for next season's cooping get our estimate on shows ranging from a minimum 500 coops and upwards. Good second hand exhibition metal coops for sale as well as new ones.

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OWEN FARMS

**BUFF AND WHITE ORPINGTONS
WHITE PLYMOUTH ROCKS
S. C. RHODE ISLAND REDS
WHITE WYANDOTTES AND
S. C. WHITE LEGHORNS**

HAVE PROVED THEY HAVE NO SUPERIORS

THEY HAVE MADE GOOD IN

THE SHOW ROOM,

THE BREEDING PEN,

THE LAYING PEN.

**THEY HAVE DEMONSTRATED THAT
THEY LIVE, GROW, LAY AND PAY.**

1916 MATINGS

Are better and stronger than ever before. Never before in the history of the Farms have the minor details been so perfect in every male and female as they are today. My new Mating List will give you a careful word picture of every male used in my best pens and a general description of all females. Every mating in White Plymouth Rocks, White Wyandottes and White Leghorns has been put together by the master hand of Frank H. Davey. Every mating in Buff Orpingtons, White Orpingtons and S. C. Rhode Island Reds has been made by Maurice F. Delano. Our combined experience in successfully breeding strong, healthy, winning birds amounts to nearly SIXTY YEARS. This experience means much to us and should mean something to you.

1916 MATING LIST

Tells the story and will be ably seconded by my grand new Catalogue which will be out early in February. You cannot afford to purchase eggs in my varieties without sending for these books and carefully considering Owen Farms quality. My customers have won highest honors all over the country with chicks raised from my eggs, and 1916 quality is better than ever. Owen Farms guarantee is original, and different and really means something.

EGGS FROM THE BEST MATINGS IN AMERICA
\$10.00 for 15. \$30.00 for 50. \$50.00 for 100.
EGGS FROM GRAND GOOD MATINGS
\$5.00 for 15. \$15.00 for 50. \$25.00 for 100.

No reserved matings. If you must have eggs from special pens they are yours at prices stated in lower insurance.

1915-16 WINNINGS.

BUFF ORPINGTONS AT MADISON SQUARE GARDEN, NEW YORK.

IN THE BEST QUALITY BUFF CLASS EVER COOPED.

1st, 4th Pen; 2nd, 4th Cock; 1st, 5th Hen; 2nd, 4th Cockerel; 1st Pullet, and 1st Collection by a very wide margin. The TENTH OUTSTANDING BUFF WINNING during the past thirteen years Owen Farms birds have made at this great show.

WHITE ORPINGTONS AT THE GREAT PALACE SHOW, NEW YORK.

1st, 2nd, 4th Cock; 1st, 2nd, 3rd, 5th Hen; 1st, 2nd, 4th Cockerel; 1st, 5th Pullet; 1st, 2nd, 3rd Pen and ALL SPECIALS. The strongest team we ever showed. Our customers will win at the other leading shows.

WHITE LEGHORNS AT THE GREAT BOSTON SHOW, 1916

1st and 2nd cockerel; 1st, 3rd and 6th Pen, 2nd, 3rd and 5th pullet; 3rd, 5th and 6th cock. Special for best three cockerels and best three pullets.

BUFF ORPINGTONS AT BOSTON, 1916

1st, 3rd and 5th cock; 2nd and 3rd hen; 1st cockerel; 1st, 2nd and 3rd pullet; 1st and 4th pen, and all Specials. Note, Madison Square 1st and 2nd winning Buffs were not shown at Boston.

S. C. R. I. REDS AT BOSTON

In best class of the year won First Collection, Special for three best cockerels and three best pullets, repeating their 1915 winnings at Boston of these same specials. In 1915 they also won 1st cockerel, 1st hen and 1st Pen.

WHITE PLYMOUTH ROCKS.

I am not showing White Rocks any where this winter. My sales in this variety have been the largest in the history of the Farms and my customers have won splendidly. The winnings of the flock during years past have well established their ABSOLUTE SUPREMACY and my 1916 Matings will produce birds that will maintain this position.

BREEDING MALES.

February and March are the months for finishing your matings for the 1916 season. Some of your males have developed faults you will not tolerate. Some of your females are disappointing. I can still furnish superb breeding males from noted sires that will strengthen your matings. Write me carefully and accurately your weakest points, where you are strong and about what you wish to pay. I will then tell you frankly if I have the bird to help you and with equal frankness if I fail to find him in my flock. This real interest in the success of every customer has been the strongest factor in building up Owen Farms' business.

BREEDING FEMALES.

Perhaps you have a superb male with only one or two females that are exactly what you want to mate with him. I have a grand lot of choice females to spare and among them may be the exact birds you need to complete the best mating you ever put together. Try me and see. Will be glad to give all the necessary time to carefully consider your requirements and tell you what I have.

BREEDING PENS

Owen Farms has always made a special effort to mate for best results every breeding pen sold. The nicking of blood lines has been just as carefully considered as in our own mating. This personal service has made hosts of permanent customers and you can easily make it yours. Let me quote you, whether you need a utility mating, a good mating, a choice mating or the best mating I will sell. There are no flocks in existence that have been more carefully line bred than have mine and there is no guess work when Mr. Davey or the writer mates a pen for a customer.

OWEN FARMS FLOCKS ARE ESTABLISHED

They are years beyond the experimental stage and have been the foundation blood of most of the really successful breeders in the country. Very few really good flocks exist that do not have more or less Owen Farms blood. My birds have made good for others and will start you on an equal fighting basis and save you many years uphill work. TRY THEM FOR YOURSELF.

UTILITY QUALITIES

Owen Farms birds are famous the country over for size, bone, perfect health, vigor, prepotency and heavy laying qualities. There are no birds that excel them in these important functions and very few flocks any where near as good.

SATISFACTION GUARANTEED EVERY CUSTOMER EVERY TIME

I do not want any customer to keep a bird that does not please him, and any bird I ship can be sent back after a forty-eight hours' rest and the purchase money will be promptly refunded. I will pay the return expressage on males at \$10.00 or more each and on females at \$5.00 or more each.

PRINTED MATTER FREE

OWEN FARMS, 115 William St., Vineyard Haven, Mass.

Maurice F. Delano, Proprietor

Frank H. Davey, Superintendent



the egg contents. Eggs cooled too much are affected similarly. Therefore, for the first seven days it is best not to leave them out of the machine longer than is necessary for proper turning. The length of time to cool may be determined by touching several eggs to the eye or lips. If sufficiently cooled, the eggs will feel cool at first touch. They should never be left out long enough to become cold. Some authorities assert that it is impossible to govern the amount of cooling, to a certain extent, by comparing the size of the air cells with those undergoing the natural process of incubation, notwithstanding the fact that the air cells of different eggs in the same machine will vary in size. If the general tendency of the incubator eggs is to have larger air cells than those under hens, less cooling is necessary and vice versa. This method, however, is fast becoming unpopular. By observing the air cells of eggs being incubated in various machines at this station, each operated by a different person, it has been found that eggs in moisture machines usually have smaller air cells than those in non-moisture machines. This fact does not appear to have any material influence on their hatching power, as there was no great difference in the percentage of chickens hatched. The above instance is verified by extended observations and experience with many incubators operated at one time under practically ideal conditions. Little dependence should be placed on the relation of the size of the air cells to cooling. It is highly probable, however, that cooling, ventilation, and moisture have some influence on the size of the air cells.

When cooling is begun it will take only a very few minutes perhaps four or five to cool the eggs sufficiently, the length of time depending on the temperature of the room. The cooling should be gradually extended over a longer period as the embryo grows. In warm weather thirty to sixty minutes may be needed to air the eggs properly during the latter stages of incubation. On very sultry days extra cooling is beneficial, less is desirable on cool days. In cold weather only a comparatively short time will be required to cool the eggs sufficiently. Cooling may be done at either the morning or the night turning, or at both times. If the eggs are cooled twice daily, only half as long a period each time should be required.

Eggs may be cooled on a table, or perhaps on the incubator. Some authorities advise cooling in the machine by dropping the door. If the latter method is used, it is not generally advisable to cool the eggs so long as in the former cases. While the doors remain open the heat is constantly escaping, and the incubator becomes cooled as well as the eggs. A longer time is then required to bring the egg chamber back to the proper temperature than when the eggs are cooled outside and the incubator kept closed. If the machine contains a moisture pan the door should not be left open in cold weather. Cooling should be discontinued on the nineteenth day.

A great many accidents may be avoided if the operator forms the habit of looking at the incubators before leaving the room,

making sure that the doors are closed and that everything is in place.

Testing

Probably the most important of the several reasons for testing eggs during incubation is to learn the percentage of fertility and the strength of the germs. When these conditions are known to be unsatisfactory, it may be possible to make changes in the mating or in the environment as will add to the fertility and strengthen the germs, thereby increasing the percentage of eggs that will hatch and also improving the quality of the chickens. When three or four incubators are started at the same time, the eggs left in one machine may be divided among the others, thus saving oil and lessening the labor. Removing the dead germs helps to prevent bad odors that are sure to accumulate when eggs are being incubated. Odors from duck eggs are more noticeable than from hen eggs. If in an incubator, it is the more necessary that the bad eggs be removed.

Carefully tested infertile incubator eggs, if put on the market promptly, may be sold for a certain percentage of their original value. Incubator eggs offered for sale should of course always be so labeled. In large cities they are used in bakeries and for family cooking. There is no reason why such eggs should not be used. They are, without doubt as good as or better than many of the so-called fresh eggs on the market. If white

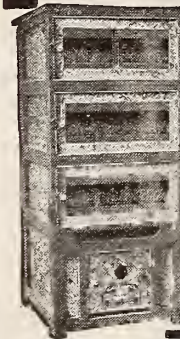


Every Fowl a Money Maker

Did you read about the man that gave some chickens away and tied 25 cents on their legs and came out ahead? Put 'em all to work—There should not be a chicken on the place that isn't earning money—Get my new Big Free Book, Tells of Chickens, Turkeys, Geese and Ducks, Incubators, Brooders and poultry fixings of all kinds. Henry Steinmesch, Pres. 33 N. 4th St. St. Louis, Mo.

MAKE LOAFING HENS PAY

HAVE eggs to sell at top-notch prices — by feeding sprouted grain. One bushel oats, wheat or rye makes 3 bushels of tempting, crisp green feed in the



"Successful" Sectional GRAIN SPROUTER

Knocks the feed problem into a cocked hat, takes care of young chicks too—makes them grow. Constructed with double steel walls—fireproof—cannot warp, shrink or swell. Lasts a lifetime. Write today for booklet and 1916 offer. Booklet on Proper Care of Chicks 10c.

DES MOINES INCUBATOR CO. 627 3rd St., Des Moines, Ia.

*** Send A. P. W. to a friend, on trial for four months. A dime will do it.



CAMPINES BLUE ORPINGTONS SUSSEX

Winners at Hagerstown, Frederick, Norfolk, Washington, Chicago and Madison Square Garden. If interested, please write me, mentioning breed. Eggs very reasonable.

Dr. J. H. Prudhomme, Desk W, Thurmont, Md.

BEAN'S COLUMBIAN ROCKS

Their Show Record Proves Them the Champion of Champions

SPECIAL BARGAIN SALE

On account of hard times and high cost of feeds I am forced to dispose of a large number of strictly high class birds. This is your chance to start with a popular breed that answers all the requirements of an all around fowl. Great winter layers. Unexcelled for their beauty. 20 Breeding Pens \$12.50 per pen. 20 Breeding Trios \$8.00 per trio. Order direct from this "ad."

FRANK G. BEAN,

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Incubators

Metal inside and out, heavy case well padded and double walls, automatic as near as can be constructed. A cracken good one.

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



100 Egg \$10.00
150 Egg 12.75
200 Egg 16.00



Send Postal Today for free book

Wendell Incubator Company
Holly, Mich.

eggs are being incubated and those that are infertile are to be sold for cooking purposes, they may be tested the fourth or fifth day. Brown eggs are less easily tested and it is usually advisable not to test them before the sixth or seventh day.

For the best results, the eggs should be tested first on the seventh day of incubation and again on the fourteenth day. If the germs are strong and the eggs have been properly incubated, only a few dead germs should be found on the second test. It is better to do the testing at night unless the room can be darkened. A convenient movable room for day or night testing is easily constructed at a low cost, as follows: The framework may be made of 2 x 2 inch lumber, the sides and back covered with thin lumber down to about 1½ inches from the floor and painted black on the inside, or heavy black cloth or paper may be used in place of the latter. Black cloth is preferable to lumber for covering the top, as the former will allow the heat to escape. The size of the room is governed by the space it is to occupy and by the size of the egg trays. A dark colored window shade or black cloth should be hung in front. A hole a little smaller than an ordinary egg should be cut in the back, sufficiently high, and at the proper distance from the sides of the room, to be convenient in testing eggs held in the right hand. The work is less tiresome if this opening is directly opposite the right arm and as low as possible without causing the operator to stoop. A shelf for the egg trays should be placed inside, across the back, and another underneath to hold the baskets or trays for the tested eggs. On the outside of the back a third shelf must be provided to hold the lamp that is used in testing. Any ordinary lamp that can be fitted with an egg tester will answer the purpose provided it gives a good flame or a "Rochester burner" may be used without the tester by placing asbestos between the testing room and the chimney. In case a tester is used, the front should be placed against the

hole in the testing room. By placing casters on the four legs the testing room may be moved from one incubator to another thus avoiding the extra labor of carrying the eggs to and from the tester. This arrangement will prove a decided advantage in connection with a large egg capacity, and testing may be done very well during the daytime.

If the operator prefers to do the testing at night, a common tester and a house lamp are sufficient for the purpose. On bright, sunny days testing may be done accurately without a testing room by using a frame that fits tightly against a window facing the sun. This frame should be covered with heavy black cloth or paper, in which is cut a round or oval opening about the size of an egg.


During winter weather it is advisable to cover the eggs while testing. This is not necessary in a warm room unless the eggs are out of the incubator for some time. In case the first test is made on the seventh day of incubation, the live germ, if strong, will show distinctly, the blood vessels branching in various directions. The germ should be centrally located in this network of blood vessels and is usually found near the air cell, provided the egg is held with the large end up. A live embryo is easily moved by turning the egg about. Occasionally the germ will be hardly visible, but its presence is readily detected by a darker appearance of the egg contents than is shown by an infertile egg. If for any reason the person doing the testing is in doubt as to whether a germ is alive or dead, it is well to mark the egg and test it later, this practice will help to make

the operator more expert and will add interest to the work.

An infertile egg looks like a fresh egg, the only apparent difference being in the size of the air cell.

The second test is more difficult to make than is the first. Many of the weaker germs will not differ materially in appearances from those that are dead, and some that have died within a few days of the test cannot be distinguished from the living embryos. However, if an egg contains a strong germ it will be

PIGEONS PAY
 Better Than Chickens
 Young pigeons (squabs) bring 40 to 50c each when 3 to 4 weeks old. Big demand in city markets. Each pair of pigeons easily clear \$4 per year. Always penned up. Very little space and money needed to start. Free Book explains all. **MAGNETIC SQUAB CO., Dept. 22, ADEL, IOWA.**



BUCKEYES

World's Fair and Club Show Champions
 Sweeping victories at America's greatest shows for past several years.
 Mating list free.

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JACOBUS CAMPINES
 GOLDEN & SILVER



Why was it that at Madison Square Garden, New York, January 1916, my Campines won more firsts than all my competitors combined? I won 6 firsts, 5 seconds, 3 thirds, 2 fourths and 7 specials. At American Campine Club Show, Coliseum, Chicago, December 1915, my Silvers won 1st and 6th cocks, 1st and 2nd hens, 2nd pullet, 1st young pen, specials, best pen, best colored male, best shaped male and best shaped female.

On 10 entries, Golden, won nine regular premiums. Let me start you right as I have others. Send for handsome book.

M. R. JACOBUS, Box 3-W, RIDGEFIELD, N. J.

S. C. WHITE LEGHORNS and S. C. RHODE ISLAND REDS

Our birds are bred for heavy laying, quick maturity and exhibition purposes. Buffalo and Silver Creek winners, in fact winners wherever shown. 2000 birds to select from. Eggs, stock and baby chicks. Can book a few more orders for eggs from our trapnested Tom Barron White Leghorns.

SEND FOR MATING LIST.

POULTRY DEPT. EAGLE BAY FARM,

F. A. House, Mgr.,

SILVER CREEK, N. Y.

Fiske's S.C. White Leghorns

COCKS—HENS—COCKERELS—PULLETS

I am now prepared to offer a grand collection of exhibition stock, including the finest lot of breeding show females ever put on the market. Now ready to enter the strongest competition. My strain of White Leghorns have won in all the important shows in this country. The proof upon request. They will add glory to your show record and dollars to your bank account. Send to-day for circular, prices and show record.

HARLO J. FISKE,

891 Westfield St.,

WEST SPRINGFIELD, MASS.



dark and apparently fairly well developed, the space below the membrane forming the air cell will be filled, making the division dark and firm, and occasionally life will be denoted by motion within the egg. The less developed the embryo appears to be, the fewer are the chances of its hatching. Should the egg contents immediately below the air cell appear uneven and indistinct and the remainder of this division show no development of the embryo as in the other eggs, it may be concluded that the germ is dead. This air cell increases in size during the first two weeks. The increase continues until about the nineteenth day, the size of the cell varying with the individual eggs in the same incubator or under the same hen. The air cells in eggs under the hen are usually the smallest. Eggs incubated in a moisture machine generally have smaller air cells than those in non-moisture incubators. The air cell is ordinarily found at the large end of the egg, but occasionally one is found a little at one side or near the small end.

Hatching Time

This is a critical period, and special attention is necessary. In most cases the incubator door should not be opened after the nineteenth day, and all work requiring handling the eggs or opening the door should be completed on the eighteenth day. The trays should be so arranged that the chicks will drop into the nursery

as they come toward the light. If the thermometer in use stands on the tray it should be securely fastened, otherwise the chicks will upset it, this would necessitate opening the machine in order to right the thermometer, or running the risk of a wide variation in temperature.

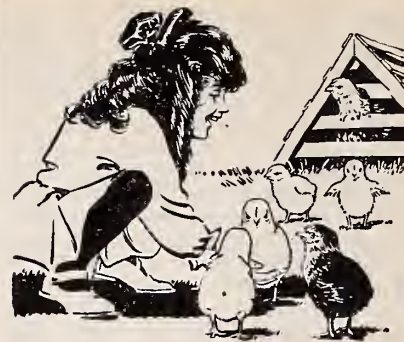
A temperature higher than 105 degrees and one lower than 103 degree should be avoided at this time. Both of these undesired extremes will occur at some time during the hatching period unless careful provision is made against them. It would be much better to remove the lamp for a time than to permit the great increase in temperature that usually occurs when the hatch is at its best. Generally, this increase may be overcome by turning down the lamp flame. Very often toward the end of the hatching period it is necessary to raise the flame in order to keep the required temperature. These two changes in temperature in so short a time will be readily understood when it is remembered that the eggs supply a great amount of animal heat during the last week of incubation, and that this animal heat naturally increases as the chickens commence to work their way out of the shells. After the chickens are all hatched and have dropped into the nursery, the heat decreases. There is also more or less condensation of moisture from the newly hatched chick at this time, and this has a tendency to lower the temperature.

The position of the ventilators at hatching time depends on the make of the incubator. It is not considered advisable to permit a very great change of air until the chickens are all out. After the hatch is completed the egg trays should be removed, together with any egg shells that may have dropped into the nursery, and the ventilators should be opened full width. If the room is warm the incubator door may be fastened open one half inch at the top.

The chickens should be left in the nursery until the day after the hatch. They should be thirty-six to forty-eight hours old when removed to the brooder. If a market basket is used, it should be lined with burlap and a burlap blanket placed over the chicks.

Disinfecting

Absolute cleanliness is essential in incubators. The germs of the various communicable diseases most common among young chicks are sometimes carried on the egg



Give the Chicks a Feed They Can Digest

A chick needs no food for the first 48 hours. Nature gives him that much of a start. But at the end of that 48th hour he's got to get hold of something he can digest *quick*.

There's where H-O Steam-Cooked Chick Feed comes in. It's made up of selected grains, steam-cooked to insure easy digestion by the youngest chicks. It builds bone and tissue right from the first minute.

H-O Steam-Cooked Chick Feed

actually saves chicks' lives. Easy to digest because *steam-cooked*. Keeps sweet and in prime condition because it contains little moisture.

Try H-O Steam-Cooked Chick Feed on this year's brood. See how it increases your poultry profits for the season.

Write for free sample, prices and descriptive folder.

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BUFFALO, N. Y. HARTFORD, CONN.



That Longfield Poultry Farm, Bluffton, Ind., R. C. Rhode Island Red Specialists, have been producing Reds of the highest quality, is proven by their consistent winnings, year after year, in many of the largest shows of the country. The above illustration shows one of their blue ribbon winners at Chicago Coliseum, 1912. At both the 1913 and the 1914 shows, Longfield birds were prominent among the winners, and at the December 1915 show, they won first cock, second and fourth hen, second pullet, first pen old and first and second pen young.

shell. In order to guard against future infection, the incubator should be thoroughly cleaned and disinfected after each hatch. If eggs are used from flocks not absolutely free from disease, they should first be dipped in 95 per cent grain alcohol. The eggs should be dipped quickly and dried immediately.

To prepare for disinfection, all the portable parts of the incubator should be removed, and should be washed with warm water containing a little soap powder. A putty knife or a stiff brush is excellent to use in removing the shell and down that stick to the egg and nursery trays. As often as the burlap in the bottom of the nursery becomes soiled, it should be replaced with clean burlap sacking.

After the parts have been thoroughly cleaned, they should be disinfected and placed in the sun to dry. A disinfectant should also be applied to the inside of the incubator. A spray pump or a hard brush is a convenient instrument for distributing this. The disinfectants used in the incubator cellar at Cornell University are creoline, zenoleum, and crude carbolic acid. Either creoline or zenoleum may be recommended to do the work without having an injurious effect on the hatch, provided the directions are followed. Crude carbolic acid is a good disinfectant, but it has a very strong, disagreeable odor. There is also danger of leaving oily spots in the incubator unless the solution is kept well stirred. The odor from the two first named liquids is mild and inoffensive. It is also easier to dry the machine after their use. Of these two creoline is the most expensive. In using any one of the three agents, the proper proportion is one part of the disinfectant to nineteen parts of water mixture being stirred thoroughly.

The incubator should be carefully dried and aired before it is used again. It is well to close the door of the machine for a day, keeping the lamp lighted, after which the door may be left open over night or until the incubator is well aired.

FIRST AID TO POULTRY KEEPERS

"First Aid to Poultry Keepers" is the title of the new catalog just issued by the Model Incubator Co. of Buffalo, and New York City. It is without question one of the most striking pieces of poultry literature that has come to the editor's attention, and far more the modest title would imply. Not alone the beginner but also the experienced well-versed breeder will find this catalog of the greatest help in all the many and varied problems of poultry raising.

128 pages are packed with detailed information on the different types of incubators, brooders, hovers, as well as poultry houses, accessories and supplies of all kinds. Liberal space has been given to Poultry Remedies, Disinfectants and Insecticides.

But aside from all this—the chapters on "The Year's Poultry Work,—month by month", "The Possibilities of the Poultry Business", "Poultry Business and who should engage in it" and those chapters dealing with hatching, breeding and raising, render the Model book so valuable that it should be in the hands of everyone now in the business and everyone who intends to enter the business.

Authoritatively written, it is as complete and as thorough as a book of this kind can well be made. It is attractively gotten up, more than adequately illustrated and substantial enough to be used as a handy book of reference. When requesting your copy kindly mention A. P. W.

MOISTURE IS IMPORTANT IN HATCHING

Although most poultry raisers have completed their hatchings by this time, it is likely that a number have continued to use their incubators during the latter part of May and June when, according to the Cornell poultry experts, the season is likely to be dry and to cause difficulty in hatching, as a result of too much evaporation from the eggs.

One of the most important factors in incubation, as pointed out by the poultry experts, is to provide proper moisture conditions. To determine whether there is the right amount of moisture for the eggs during the incubation period, the size of the air cell in the egg should be studied as the chick develops. This can be done best by marking a few eggs so that, each time the eggs are tested, pencil lines may be drawn around the eggs so marked at the edge of the air cell. If the moisture conditions have been right during the incubation period, the experts say that the air cell may occupy, at the end of the eighteen days, from one-third to two-fifths of the interior space. If the eggs are too dry, it is not possible to replace the moisture.

A normal fresh egg contains all the

moisture necessary if the egg is incubated under proper moisture conditions. For these reasons, moisture should be supplied not with the idea of putting it into the egg but rather with that of keeping the air about the eggs so humid that an excessive evaporation of the egg contents will be prevented.

Unless the manufacturers of incubators so direct, moisture should never be supplied in the incubator itself. In most cases, the proper moisture conditions may be secured by keeping the floor of the incubator cellar well dampened during the incubation period. Full directions in regard to incubation are given in Cornell reading course lesson number 80, which will be supplied by the college of agriculture at Ithaca, free on request to residents of New York State.

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Readers of A. P. W. interested in low priced, substantial and reliable feed mills, should send to Wilson Bros., Dept. 10, Easton, Pa., for their catalogue, which lists and describes a wide range of styles and sizes in Bone Cutters, Dry Bone Mills, Grain and Shell Mills. These are manufactured especially for the poultrymen and there is a mill for all no matter what the size of your flock. Just drop a line today for a catalogue, the possession of one of these mills may result in a big saving in your feed bills.

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PRAIRIE STATE INCUBATOR CO., 202 Main Street **Homer City, Pa.**

THE BOSTON SHOW

By Wm. O. Jennings

(Continued from page 267)

much merit an all around good Brahma, plenty of booting, excellent laced hackle and tail coverts.

DARK BRAHMAS a small class, but good in quality, 2 cocks, 2 hens, 3 cockerels, 3 pullets being the total number entered.

BUFF BRAHMAS only one pen, this breed seems to be loosing out although they are deserving of credit and attention.

BUFF COCHINS, some of the finest Cochins in the Buff variety we have seen for years were shown at Boston, the 1st and 2nd cocks and 1st and 2nd hens were stunning. The evenness and softness of color and fullness of feather which these birds displayed was an interesting sight indeed. They were owned by Oakland Farm, Taunton, Mass. The total number exhibited was, 7 cocks, 7 hens, 6 cockerels, 6 pullets and 3 pens.

PARTRIDGE COCHINS came out with a good exhibit both in numbers and quality making a class of 6 cocks, 8 hens, 6 cockerels, 7 pullets and 3 pens, a good increase over last year.

BLACK AND WHITE COCHINS only small classes. All Cochins were judged by George W. Weed who pleased the exhibitors with the fine work he did.

BLACK LANGSHANS. Cocks, 7; hens, 7; cockerels, 9; pullets, 9 and 2 pens an increase of 21 birds over last year. The big winner in Langshans was Ives & Ives, Guilford, Conn., showing 2nd cock, 1st hen, 1st cockerel and 1st pen. First hen was an easy winner, she had the type that makes a good Langshan and plenty of beautiful green sheen without a trace of purple. Only two singles and a pen of White Langshans shown.

BARRED ROCKS. Charles H. Shaylor, judge, one of the biggest classes in the show, plenty of good keen interest and competition sizzling. 22 cocks, 18 hens, 40 cockerels, 21 pullets and 4 pens in the exhibition classes. Pullet bred, cocks, 6; cockerels, 9; pens, 2. Cockerel bred, hens, 9; pullets, 10 and pens, 5, a grand total of 195 birds an increase of 8 birds over last year. The exhibition classes out numbered last year by 23 birds. Pittsfield Poultry Farms, Holliston, Mass., showed a fine team of Rocks in all classes and were successful in landing 2nd exhibition cock, 2nd and 3rd exhibition hen, 3rd exhibition pullet and 1st exhibition pen. In the pullet bred class they won 5th cock, 6th cockerel and 1st pen, also in cockerel bred class they won 1st hen, 2nd pullet and 1st pen making 1st pen in all three classes. Grove Hill Poultry Yards, Waltham, Mass., were again exhibitors in the Barred Rock aisle and as usual captured their share of the ribbons, 4th 5th and 6th exhibition cockerel, 5th exhibition pullet, 2nd and 3rd exhibition pen, 4th cockerel bred pullet, 3rd cockerel bred pen, also 2nd pullet bred pen. We are informed that the champion Barred Rock male and female of the show were Grove Hill bred birds. A. C. Hawkins, breeder of Royal Blue strain Barred, Rocks, Lancaster, Mass., did not exhibit in the open classes, but had on display

some of his fine Rocks including the 1st cockerel at Boston last year also the 1st and grand champion female at the Panama Pacific World's Fair Show.

WHITE ROCKS were strong in numbers with the quality well up to the usual standard at Boston. Our total figures show there were 24 cocks, 24 hens, 45 cockerels, 36 pullets, 8 pens. These 169 birds were shown by 25 different exhibitors and not a single bird that was not a creditable specimen. Pittsfield Poultry Farms Co., Holliston, Mass., was one of the big winners having to their credit 1st pen, 3rd cock, 2nd and 4th hen, 3rd cockerel. One of the most remarkable males we have seen this season was in the first prize pen. His massive size, excellent head points, rich yellow legs, typical carriage and snow white plumage made him easily one of the best birds in the show. The females in this pen showed fine development and splendid fitness. Mirmichi Poultry Farm, Foxboro, Mass., was there with some winning White Rocks that finished with 1st hen, 2nd and 4th cock, 5th cockerel, 6th pullet and 3rd pen. W. F. Hayward, was a very successful winner, his 1st, 2nd, 3rd and 4th pullet and 1st, 4th and 6th cockerel created quite a sensation. Mr. Hayward has only been exhibiting White Rocks for a few years and he certainly is deserving of much credit for his fine showing. A very fine pen showing plenty of quality although lacking a little in fitness was the 6th

prize pen of Fair Acres Farm, Millis, Mass.

BUFF ROCKS. 11 cocks, 7 hens, 13 cockerels, 11 pullets. A. O. Schilling judge. The quality was quite uneven and not as good as we have seen in some former years. Fair Acres Farm, Millis, Mass., 1st prize pen were evenly matched birds having soft even shade of Buff throughout. They also won 5th pullet. E. H. Lichtenwalter, Girard, Pa., 1st and 2nd prize pullets were easy winners having good Rock type and a nice even shade of Buff color.

PARTRIDGE ROCKS. 13 cocks, 15 hens, 18 cockerels, 19 pullets, 3 pens, a total of 80 birds almost doubling the number of last year's entries. This variety of Rocks are surely making a good showing at all the big shows and we believe they are here to stay. Silver Penciled and Columbian Rocks were small classes although they brought out some very good quality.

SILVER WYANDOTTES. 3 cocks, 5 hens, 5 cockerels, 6 pullets, 2 pens a falling off in numbers from last year when there were 67 birds shown.

GOLDEN WYANDOTTES made a fine showing for this variety having 6 cocks, 8 hens, 4 cockerels, 7 pullets, 1 pen. It is not often that you see a class of 30 Golden Wyandottes.

WHITE WYANDOTTES. James Glasgow, Mahwah, N. J., judge. The work done by Mr. Glasgow was entirely satisfactory, everyone spoke very highly of

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RED JACKET POULTRY FARM, W. M. Patteson,

PENN YAN, N. Y.

JAVAS at Chatham Fair, September, 1915, I won all save one first and second prize in the single and pen classes I showed in (9 entries). Note. There were 46 Javas shown by 5 exhibitors.

S. W. MORTON,

Secretary American Java Association,

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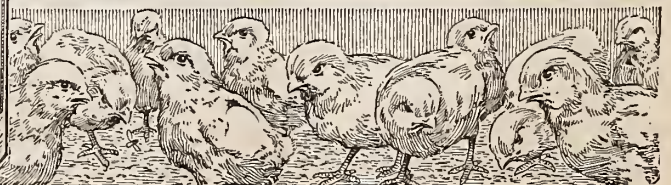
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the earnest and faithful way in which he handled this class which represented: 23 cocks, 32 hens, 42 cockerels, 36 pullets, 10 pens. It was up to J. W. Andrews, Dighton, Mass., to win the majority of the prizes in this variety. His 1st prize cock was a rare one possessing grand type and capacity and shown in the pink of condition. Mr. Andrews complete winnings were 1st and 5th cock, 1st and 2nd hen, 1st and 4th, cockerel, 2nd, 3rd and 6th pullet and 1st pen. This is one of the biggest wins in White Wyandottes ever made by one exhibitor at the Boston show. Fernbrook Farm, Albany, N. Y., showed a team of Wyandottes having plenty of quality, but many of them had gone by in condition. Their 2nd pen contained some unusually good females and was headed by snow white stylish male. They also won 6th cock and 5th hen. To receive any mention in a Boston White Wyandotte class is no small honor. Mirmichi Poultry Farm, Foxboro, Mass., 2nd prize cockerel was a striking Wyandotte and received much admiration from the White Wyandotte breeders. Black Wyandottes a small class of only six entries.

BUFF WYANDOTTES were one of the largest classes ever seen at Boston, 83 in all making an increase of 45 over last year. A. O. Schilling, Buffalo, N. Y., placed the awards. The sensation in this variety was 1st cockerel owned by Andrew Riddell, Greenwich, N. Y. This bird was a wonder in color having an even rich shade of Buff from head to tail. Mr. Riddell won as follows: 1st and 5th cock, 3rd and 6th hen, 1st cockerel and 3rd pen. His entire exhibit showed many features of careful breeding.

PARTRIDGE WYANDOTTES a strong class with good average quality 7 cocks, 8 hens, 7 cockerels, 7 pullets and 2 pens. Sheffield Farm, Glendale, Ohio, had things pretty much their own way winning 1-2-3 cock, 2-3-4 hen, 1-2-3 cockerel, 1-2-3 pullet and 1-2 pen. We could not help but notice the improvement they have made in Partridge Wyandottes during the past few years. The Sheffield exhibit was in charge of H. B. Hark and the splendid condition of his exhibit surely speaks well of the excellent work he is doing.

SILVER PENCILED WYANDOTTES. 2 cocks, 5 hens, 4 cockerels, 5 pullets and 3 pens, not as large a class as in former years. However, the quality was well up to the standard.

COLUMBIAN WYANDOTTES. A large entry and competition red hot. Charles D. Cleveland, Eatontown, N. J., judge with 9 cocks, 11 hens 10 cockerels, 11 pullets and 3 pens in line. A big increase over last year.

BLACK AND MOTTLED JAVAS. All prizes won by Morton & Gregory, Albany, N. Y.

AMERICAN DOMINIQUE. 4 cocks, 5 hens, 5 cockerels, 6 pullets and 1 pen. The quality was up to average and a slight increase in number over last year.

S. C. R. I. REDS were a big class and plenty of the richest kind of quality, however, at their best there was a falling off in numbers of about 70 birds from last year. Red Feather Farm, F. W. C. Almy, Prop., Tiverton Four Cor-

ners, R. I., was the big winner capturing 4th and 6th cock, 1st hen and 3rd pen. The awards were badly split up no one exhibitor winning over one first. Mirmichi Poultry Farm, Foxboro, Mass., was another successful exhibitor of this variety winning 6th hen, 4th and 6th cockerel. Their 4th cockerel had nice type very even in surface and rich under color, but not quite as dark as winning cockerel. The entire exhibit of S. C. Reds consisted of 24 cocks, 19 hens, 30 cockerels, 30 pullets and 13 pens. They

were judged by I. W. Bean, South Braintree, Mass.

R. C. R. I. REDS were a remarkable class for quality and the numbers were about the same as last year. In this class again Mr. Almy of Red Feather Farm was a prominent winner where he carried off 1-4-5 hen, 1-3-6 cockerel, 4th pullet and 2nd pen. His 1st prize cockerel was the nearest to the noted "Sensation" which he purchased in 1911, of any male we have seen. Payne Brothers, Portland, Conn., won 2nd and 4th cock,



A NEW BROODER HOUSE

The above illustration shows a new brooder house just completed on the farm of J. W. Parks, Altoona, Pa. The constantly growing demand for Parks bred to and do lay Barred Rocks, has necessitated many additions to this up to date plant and the substantial appearance of the above building gives a good indication of the firm foundation upon which the business has been built.

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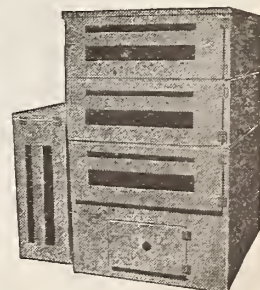
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2nd and 6th hen, 2nd and 4th cockerel, 6th pullet and 1st and 3rd pen. Their first pen were well mated and had even color throughout.

DORKINGS. The entire Dorking exhibit was represented by one colored cock, and two colored hens. What has become of the fine large exhibits of Dorkings formerly seen at Boston?

S. C. BUFF ORPINGTONS. 8 cocks, 8 hens, 12 cockerels, 10 pullets and 6 pens, judged by Richard Oke, Londont, Ont., Owen Farms, Vineyard Haven, Mass., showed a classy string of Buffs which went through with flying colors making a grand scoop of 1st, 3rd, 5th cocks, 2-3 hens, 1 cockerel, 1-2-3 pullet, 1-4 pens. The real strength of the quality possessed by Owen Farms Buffs, has been clearly demonstrated by their consistent big wins which they have made year after year at America's leading shows. The nearest winners to Owen Farms was A. M. Bardwell with 4-6 cock, 1-4 hen, 2 cockerel, 4-5 pullet and 2-3 pen.

S. C. BLACK ORPINGTONS. It is indeed odd when at a show like Boston, only one Black Orpington hen in the single class is to be found. The total entry in Blacks was, 6 cocks, 1 hen, 7 cockerels, 5 pullets and 1 pen, 24 birds, 18 of which were shown by one exhibitor. When we look back to last year's show with its fine class of 70 Blacks one cannot help but wonder what is wrong. C. S. Purdy, Stamford, Conn., was the main squeeze in the winning line with 1 cock, 1 hen, 1-2-3-4-5-6 cockerel, 1-2-3-4-5 pullet and 1 pen.

BLUE ORPINGTONS came out with a strong class, 9 cocks, 5 hens, 9 cockerels, 9 pullets and 1 pen. The quality was well up to previous years. Haldie Nicholson



PARTRIDGE ROCK MALE

The above male shows the vigorous type of Partridge Plymouth Rocks, produced by Besuden Bros., Box 14-W, Evanston, Sta., Cincinnati, Ohio. This strain is called the Puritan and is one of the leading exhibition strains of the country a fact that is proven by their long list of victories in the show room, not the least of which is their recent grand record at Cleveland, Ohio, where they won every first prize and many minor awards.

carried off the lions share of the awards, namely 1-5-6 cock, 3-4 hen, 1-3-6 cockerel, 2-3-4 pullet and 1 pen.

S. C. WHITE ORPINGTONS. Not as large an exhibit as we have seen at Boston and it is doubtful if the quality as whole would quite come up to that of last year. 7 cocks, 9 hens, 9 cockerels, 9 pullets and 3 pens. Richard Oke, London, Ont., judge. 1st pullet in our opinion was the best bird in the class. She was a truly wonderful White Orpington for type and it would be hard to find her equal. Her chalk white color, large bone and superior head points almost places her in the faultless class. Mr. O. T. Curtis, Box 303, Woburn, Mass., the owner of the pullet also won 2nd cockerel. Rose Comb Orpingtons in all varieties were small classes.

S. C. WHITE LEGHORNS. 15 cocks, 17 hens, 21 cockerels, 21 pullets and 7 pens. T. W. Rogers, judge. That the Leghorn hen is making good throughout New England is not to be questioned when we stop to consider the large and splendid class exhibited at the Boston Show. Owen Farms, Vineyard Haven, Mass., were among the most successful winners landing 3-5-6 cocks, 1-2 cockerel, 2-3-5 pullet and 1-3-6 pen. Their 1st cockerel was a star, an out-standing bird in the class of 21. His color was perfect and his typical Leghorn carriage, fine head points, rich yellow legs made him one of the most stylish Leghorns shown this season. We were much interested in the White Leghorns exhibited by Everlay Farm, Methuen, Mass.. Here was a team of birds that showed plenty of quality, but they did not have the expert finishing touches to put them in the best of condition. W. H. Williams,

Plainfield, N. J., made a fine exhibit and carried off three of the five first prizes. These birds were in charge of Lew H. Bonfoey.

R. C. WHITE LEGHORNS. A small class but excellent quality. Turtle Point Farms, Saratoga Springs, N. Y., won 1-2 cock, 1 hen, 1 cockerel, 1 pullet.

BUFF LEGHORNS. Not quite upto what we usually see at Boston. 4 cocks, 5 hens, 7 cockerels, 6 pullets.

S. C. BLACK LEGHORNS. The competition in this class was quite keen especially in cockerels. Turtle Point Farm, Saratoga Springs, N. Y., was the big winner. They finished with 1 cock, 1-2 hen, 1-3-4 cockerel, 1-2-3-4 pullet and 1 pen. Their winning cockerel was as good a Black Leghorn as we have seen for some time. In Silver Duckwing Leghorns all prizes went to Turtle Point Farm.

S. C. BLACK MINORCAS. This class



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THE EVERLAY FARM

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was a credit to the show and one of the largest, if not the best, ever seen in New England. 6 cocks, 13 hens, 9 cockerels, 10 pullets and 3 pens. Miss O. E. Remsen, judge. Pratts Poultry Experiment Station, Morton, Pa., showed a style of Minorca that surely measured well with the standard requirements. Their 1st prize hen was a dream, splendid in type, good in head and possessed a rich brilliant lustrous black color. Their complete winnings were 2nd cock, 1-3 hen, 2-3-5 cockerel, 1-3 pullet and 1st pen. In R. C. Black Minorcas as well as single combs Pratts Poultry Experiment Station demonstrated the fact that they have the goods when it comes to Minorcas with 1-2 cock, 1-2 hen, 2 cockerel and 1-2 pullet added to their list of winnings.

BLUE ANDALUSIANS. Few fanciers of today fully appreciate the many good qualities of this ancient old Spanish breed. During the past three or four years the Blue Andalusians have been fast increasing in numbers and popularity until now we find them in most of our leading shows as one of the leading varieties of the Mediterranean breeds, seldom being outclassed in numbers by anything, but White Leghorns, Black Minorcas and Anconas. The exhibit at Boston brought out some extra good specimens. E. D. Bird, Greenwich, Conn., showed a large entry of Andalusians that were successful in capturing 2 cock, 4-5 hen, 2-3 cockerel, 1-2 pullet and 2nd pen. Mr. Bird is secretary of the Blue Andalusian Club of America and is doing much to help build up this variety and gain for it the popularity it is entitled to.

S. C. AND R. C. ANCONAS. 6 cocks, 7 hens, 16 cockerels, 18 pullets and 3 pens, a slight increase over last year.

HOUDANS. This class was even smaller than it was last year, which was considered unusually small for Boston. 5 cocks, 4 hens, 2 cockerels, 3 pullets and 2 pens. One cannot help but notice the new variety of White Houdans and the rapid strides they are making at some of the shows we have attended. Large classes and keen interest has been noted this winter. S. A. Howland, Granville, N. Y., exhibited the first prize cock, hen, cockerel and pullet at Boston.

POLISH. One of the best entries of this attractive breed seen this year, all varieties were well represented.

HAMBURGS. Never before in the history of poultry shows have we seen or heard tell of an exhibit of Hamburgs equal to the one at Boston, this year. From Blacks to Silver Penciled the classes were large and quality red red. Said Judge Drevenstedt who placed the awards, "This has got anything beat I have ever seen" and I guess it had by the way Drevenstedt faithfully worked on them. Just to give you some idea as to the size of the exhibits we call your attention to the Black and Silver Spangled pullet classes with twenty-six and twenty-nine pullets respectively.

SILVER CAMPINES. It's too bad the Campines have to be listed so far in the back part of the catalogue, most certainly they are far from back numbers. The interesting exhibit seen at Boston this year would attract the attention of

almost any fancier that loved truly handsome and attractive fowls. A. P. W. readers are well acquainted with the high quality Campines produced on the Homestead Campine Farm, Wayland, Mass. Their exhibit at Boston was of much credit to the breed and to themselves. Their winnings were as follows: 1-2-3-5 cock, 1-2-3-4 hen, 1-3-4 cockerel, 1-3-5-6 pullet, and 1-2 pen. This remarkable win demonstrates the quality of their Campines and also that they have lots of the good kind.

WATERFOWL. John Kriner Stettlersville, Pa., judged the ducks and geese and this was no small job considering the large classes and bang up quality in most all varieties. In ducks, the Pekins and Rouens made the biggest showing. Sheffield Farm, Glendale, Ohio, made seven entries in Rouens and won 3 old drake, 3-4 old duck, 4-6 young drake, 3-6 young duck with twenty-nine in the class. The entry in geese was very even. There were from twenty-five to fifty in most every class. Eugene Sites, Elyria, Ohio, brought along with him a small flock of Embdens and had the geese men guessing some, especially in the young classes where he won 1-2 young gander, 1-2-4 young goose. This was the annual meet of the waterfowl club and they certainly deserve much credit for the fine showing they helped to bring out.

TURKEYS. Boston always has a grand lot of Turkeys especially in the Bronze variety. This year there were 10 old toms, 10 old hens, 8 young toms, 18 young hens and 2 pens. The 1st prize young tom belonging to Margaret Mahoney was the biggest attraction in the Turkey aisle. This young male showed wonderful development and color and enormous size.

BANTAMS. The biggest entry in Ban-



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Barred Plymouth Rocks

Are America's oldest and Greatest Laying Strain. In fact they are conceded by such men as Grant M. Curtis, Dr. Woods, Judge Schwab, Professor Morrison, Wm. Denny and othersto be the daddy laying strain of them all. Today they have to their credit individual records up to 200 eggs. Sworn continuous laying records up to 148 eggs. Small flock averages up to 242 eggs. While a flock of 128 averaged 208 eggs and better still they just proved their Official Laying Capacity by laying more eggs in the last Missouri Laying Contest than any other breed entered. (The Famous English Leghorns included). Not all at the sacrifice of standard qualities, as our winnings of 18 firsts and seconds and four American Barred Rock Club Specials at Elgin, Ill., Utica, N. Y., Youngstown, Ohio, Wheeling, W. Va., and Altoona prove. **Cockerels, Foundation Stock, Eggs and Chicks** in limited numbers. **Eggs, Chicks and Cockerels**, Large 40 page catalogue a dime.

J. W. PARKS, Box W, ALTOONA, PA.



"America's Championship Winning."

S. C. BROWN LEGHORNS

At Madison Square Garden, Feb., 1915, in the hottest competition seen in years, won first, second, third and fifth cocks, first pullet, first pen, and gold special for Best Display in class. Eggs and stock for sale. Shipped safely any distance. Utility and exhibition strongly combined.

SEND FOR ILLUSTRATED CATALOGUE.

Williams Bros., Fullerton, Calif.

J. C. WILLIAMS, Prop.

C. B. BROWN, Supt

tams was seen in Blacks, Reds and Red Pyles. Some truly wonderful little fellows were exhibited in these varieties. Buff and Partridge Cochine Bantams also made a good showing.

Last but not least we come to the utility division of the Boston Show. Prof. J. C. Graham of Amherst Agricultural College was in charge of this department. It was very evident that the winners in the utility classes possessed most of the standard requirements. Many birds exhibited here would not look out of place upstairs in the exhibition classes. In Rhode Island Reds, H. W. Sanborn, Attleboro, Mass., owner of the 309 egg hen made a number of entries and won as follows: 1-2-6 cockerel, 2-3 hen, and 1-2-4 pullet. Mr. Sanborn's winners all possessed good standard type.

Everlay Farms, James H. Lord, Prop., Methuen, Mass., entered seven of his heavy egg producing trap nested S. C. White Leghorns and won as follows: 1 cock, 1-2 cockerel, 1-2 hen and 2-3 pullet. Mr. Lord also won first for the whitest dozen of eggs, first on best dozen Leghorn eggs and came within one ounce of the heaviest dozen of eggs in the show. Here we have a breeder and fancier paying strict attention to the producing end of the White Leghorn variety and also breeding them close to standard requirements. His remarkably good success proves the advantage and extra value that can be obtained by breeding them this way. Mr. Lord was one of the first to introduce the Leghorn into the New England states on a broad measure and in spite of the fact that Boston market demands brown eggs he has made a great hit and accomplished remarkable success.

Some excellent sales were reported at the show and hundreds of orders booked for day old chicks and eggs for hatching. The poultrymen in general seem to be much encouraged and report business conditions much improved throughout the New England states. Many are already booked for all the business they can take care of during February and March. The Boston show and its management are to be congratulated on the splendid success of its 1916 exhibition. May each year bring continued success and still greater achievements.

BOSCHEN'S BARRED ROCKS WIN

C. H. Boschen, Ashland, Va., breeder and exhibitor of Barred Rocks, reports success at the Baltimore and Richmond Shows. At the former his entries were awarded 1st pullet-bred cock, 1st cockerel-bred hen, 1st cockerel-bred pullet and 2nd exhibition cockerel on only five entries. At Richmond 1st exhibition hen, 1st cockerel-bred hen and 4th exhibition cockerel went to his birds. Mr. Boschen is a firm believer in quality and does not attempt to see how many he can raise but to see how good. He is booking orders for eggs for hatching and will be pleased to hear from all A. P. W. readers who are desirous of securing better Barred Rocks. Just address him as above and mention A. P. W.

"COMMON SENSE CHICKEN TALK"

"Feather pulling and eating by chickens is generally caused by laziness and having nothing to do."

"Egg eating can often be cured by blowing an egg and then filling with fresh mustard and cayenne pepper made into a thick paste with water."

"Lice on chickens are as common as fleas on a dog, and the rule rather than the exception. When people tell me that their chickens have no lice and that they never

have to do anything for them in that line, I feed sorry for them, for I know that they will soon drop the chicken business as unprofitable."

"When dealing with disease of chickens watch daily the comb (as sure an indicator of trouble as the coating of the human tongue), also the droppings."

The above are a few extracts from an interesting new booklet entitled "Common Sense Chicken Talk," published by Geo. H. Lee, author of a number of books on poultry and manufacturer of poultry supplies and remedies. The booklet may be had by addressing a postal to the Geo. H. Lee Co., 308 Lee Bldg., Omaha, Nebr.

SEND FOR THIS BOOK



IT IS FREE

Here is a book that tells the difference between a good incubator and the other kind. It tells why some incubators succeed and others fail. It tells in an honest, straightforward manner about the fakes and frauds on the market and contains a lot of additional information about incubators that will interest every poultry breeder.

If you own a hundred incubators this book will help you a lot and if you are just contemplating the purchase of your first machine it will be invaluable to you.

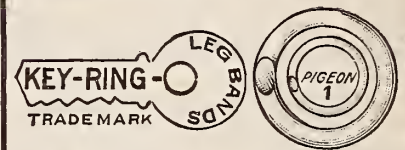
Just send a post card to the Buckeye Incubator Co., 527 Euclid Ave., Springfield, Ohio, and they will send you the book without charge. It costs you nothing and may be worth many dollars to you. Send for it to-day.



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WITHOUT HANDLING

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KEY-RING-O's are put on like a key ring— but easier; light as a feather; last a life-time; made in ten colors; will not fade. And what's more they stay on when put on.

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No. 1, Pigeon and No. 3, Baby Chick—12-10c 25-20c, 50-35c, 100-50c. No. 2, Medium No. 4, Large, No. 5, Bantam, No. 6, Extra Large 12—15c, 25-30c, 50-50c, 100-75c.

Made in Black, White, Dark Blue, Light Blue Pink, Red, Green, Yellow, Purple and Garnet

State Colors and Sizes Wanted.

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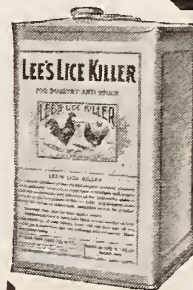
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TROY, N. Y.

KELLER'S WYANDOTTES—SILVER and GOLDEN LACED, WHITE and BLACK

I have line bred for 32 years and one of the oldest strains in this country, and have won more premiums at Madison Square Garden, Chicago, Cleveland, Cincinnati, Columbus and the Three World's Fairs than any other five breeders. They have won for me several thousand premiums during the last 30 years. They have the oval narrow lacing, size, shape and color that puts the KELLER stamp on every bird. I have hundreds of finest show and high class stock birds as well as utility stock heavy layers at reasonable prices. Some rare bargains this month, also narrow laced golden seabrights. Large illustrated circular free.

IRA C. KELLER, BROOKSIDE STOCK FARMS, Box 25, PROSPECT, OHIO



"Lice are as common to chickens as fleas to a dog."—LEE'S "COMMON SENSE CHICKEN TALK"

I have many times gone into poultry yards, whose owner said, "My hens have no lice" and taken from 100 to 500 lice from one hen, using Lee's Lice Killer. Lousy hens don't lay well. Lousy parent stock bring weakly fertile eggs and sickly chicks. Lice and mites seek the warm bodies during winter and in spring will travel a mile to get at young chicks. Clean up and urge your neighbor to clean up, now. With Lee's Lice Killer there is no dusting, dipping, greasing or handling. Simply painted or sprayed on roosts, etc. It kills both by vapor and by contact. It gets the lice on the bodies of chickens roosting over it, also the insects causing "scaly leg," also the mites and lice about the roosting places.

The Lee products—Lice Killer, Germozone, Egg Maker, etc., are sold by dealers most everywhere, generally one dealer at each town. Full particulars, catalog, poultry book and name of nearest agent sent free on request. Write today. GEO. H. LEE CO. 308 Lee Bldg. Omaha, Nebraska

"SUPERIOR DARK BRAHMAS"

At America's Greatest Exhibition, Madison Square Garden, 1916.

In a keen class in competition with some of America's best breeders they made a most sensational winning (on seven entries)

1st and 3rd Cockerel
1st and 2nd Pullet

4th and 5th Hen
2nd Pen

My first pullet being the sensation of the class. At the late Louisville and Dayton shows I won 8 firsts, 8 seconds, 14 minor ribbons, 7 specials including special for best display of any one variety. If interested in this Grand Old Variety send for my 1916 Mating List.

W. H. BESUDEN, Box 13-R, Evanston Station, CINCINNATI, OHIO

SHIPPING EGGS FOR HATCHING

By W. A. Wolford, Associate Editor

(Continued from page 269)

are weather conditions, rough handling by the express companies and exposure to heat and cold while in transit. Then sometimes a mating will go wrong and the fertility drop almost to nothing. Before the condition is discovered several settings have been shipped from the pen and the trouble is on.

It is our belief however that much cause for complaint lies with the breeder himself and that by exercising greater care in looking after his breeding birds and in the selection and preparation of eggs for shipment he can overcome many of the causes for complaint.

In the first place no eggs should be shipped until the pens have been mated for a sufficient length of time for him to test the fertility of the eggs, which is easily done by keeping a small incubator in operation. Then tests should be made regularly all through the season. Eggs should be gathered frequently in cold weather and kept in a room in which the temperature does not go below 50 degrees F., to prevent chilling. In selecting eggs for shipment only those of a fair size of uniform shape, with smooth sound shells should be used. They should not be kept on hand to exceed five days before shipping and the sooner after gathering they are forwarded the better.

Method of Packing

Whether baskets or boxes are used for shipping the greatest care should be exercised to see that each egg is well wrapped and the wrapping done in such a manner that it will act as a cushion against jars. When baskets are used it is well to first put in a lining of paper, following this with a good supply of excelsior over bottom and sides. Wrap each egg in paper then take a handful of the excelsior and thoroughly enclose the egg. By working between the hands with kind of a revolving motion a very even covering is obtained. Place the eggs in the basket, packing them snugly, then put a generous layer of excelsior over the top, and over all sew a piece of muslin as a cover. Have a label with the words "Eggs for Hatching" in bold type and paste this on the top where it will be most conspicuous. This label should answer the same purpose that the word "explosive" does on a ear of powder. But express employees are too often indifferent in handling such shipments and throw them around like so many bricks.

There are several styles of shipping boxes on the market and the various inventors have displayed different ideas in regard to containers for the eggs. In some boxes very little provision is made for any extra packing around the egg the inventor depending upon the peculiar construction of the filler to protect the egg against jar and breakage, and the construction of the box as a protector against heat or cold. No doubt all of these boxes are good and give satisfactory service. Personally we prefer one that permits of generous wrapping around the egg or one in which some light material like corn chaff or bran may be packed around the egg for greater protection from rough handling and climatic conditions. The majority of these boxes are provided with the words "Eggs for hatching" in bold type. Even in such cases a label like the one mentioned for the basket will not come amiss and should be used. If such labels are printed in red so much the better.

Some breeders of our acquaintance use the boxes in which to pack the eggs and then place them in an excelsior lined basket and cover as directed above. Either method is a good one and both insure safe carriage if the work is well done. For small shipments we will not attempt to say which is better, the box or the basket, as both are extensively used. We will admit that the box is the more convenient form and that there is less labor attached to preparing a shipment. For large shipments we find that many breeders prefer the baskets although large size boxes are obtainable that appear to possess all measures for safety in transit and protection of the eggs from heat and cold.

The Guarantee

To return to some of the causes for complaint we believe that the drawing of the lines a little closer by the breeder would help solve the trouble. In the place of simply guaranteeing a good hatch and leaving the customer to be the sole judge we believe that the breeder should mark every egg and then instead of guaranteeing a fair hatch, guarantee certain fertility and replace free of charge all infertile eggs returned before a certain time. In replacing the order enough extra eggs should be added to cover the extra cost of express.

We believe this plan would greatly lessen the number of complaints as the customer in this case, if he was inclined to be unfair would have to return the infertile eggs as evidence of poor fertility. If the eggs were stamped and of average fertility he would have no come back and would have to be satisfied. It is alright to be unfair, would have to return the dishonest but in selling eggs for hatching it seems to be different. When it is all

"Buckeye"

"The Best Incubator Made"



The System That

HATCHES MORE CHICKS
AND
HATCHES BETTER CHICKS

Than any other incubator regardless of size, price or method.

Recognized by the largest breeders and the largest poultry supply dealers as the safest and surest incubator ever built. Every machine a guaranteed success.

It's the Best Incubator Made

Not the cheapest incubator but the best.

It's the incubator that is built UP to a standard and not DOWN to a price. That's why the "Buckeye" is sold by more reliable dealers than all the others combined - that's why so many of the large, successful breeders will use no other. The "Buckeye" is sold by more than two thousand of the largest poultry supply dealers and there are over 400,000 in successful operation! Let us send you a list of some of the big breeders who use the "Buckeye" and their reasons for using it. Let us send you the names of the largest dealers and their reasons for selling it. Let us tell you about the wonderful success of the "Buckeye" system and why so many have tried to imitate it. The "Buckeye" is made in seven sizes - 60 eggs to 600 eggs.

600 Eggs	-	-	\$50.00
200 Eggs	-	-	17.50
110 Eggs	-	-	12.50
60 Eggs	-	-	7.50

SOLD ON 40 DAYS TRIAL
and guaranteed to hatch every hatchable egg.

Try a "Buckeye" in the same room with any other incubator and if it doesn't hatch more chicks and better chicks the first time you try it, we'll take it back.

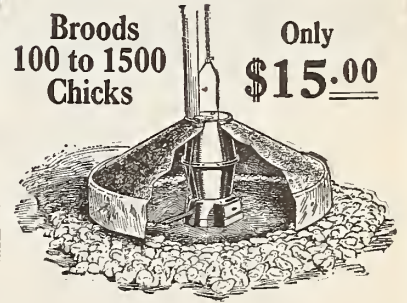
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The Standard

COLONY BROODER

Broods
100 to 1500
Chicks
Only
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The Greatest
Coal Burning Brooder
Ever Invented

Self Feeding—Self Regulating—Everlasting.
Heavy cast iron stove that requires coaling but once in 24 hours in any temperature.

Fifty-two inch hover that will positively brood 1500 newly-hatched chicks.

30 Days
Free Trial

The Standard Colony brooder is the most practical brooding device ever invented. It will do anything and everything that any other brooder will do and do it better. It is infinitely more satisfactory than brooders selling at twice the price. We are so positive that it can not fail that we will permit you to try one for thirty days and

Write Your Own
Money-Back Guarantee

Sold and guaranteed by dealers everywhere at \$15.00. Insist on the "Standard" and beware of imitations. Write us for a "Standard" Catalog and we will tell you how to grow three chickens where one grew before.

527 Euclid Ave. Springfield, O.

Note: Prices are a little higher west of the Rockies on account of freight rates.

left to the customer to decide the case he too often finds too many excuses for asking for a replacement.

To be sure he is entitled to it in many cases but the breeder is imposed upon altogether too often and by drawing the

With a guarantee demanding this proof from the customer and the breeder exercising all due care that his birds were in good breeding condition, by frequent tests of fertility, and exercising the necessary care in packing for shipment and stamping the eggs we believe that many of the disagreeable features of the eggs for hatching trade would be eliminated.



PARTRIDGE PLYMOUTH ROCKS

Bird, Bros., Myersdale, Pa., have exhibited at the leading shows of the country for many years, Madison Square Garden and Chicago Coliseum included and have never failed to capture a good share of the creamy prizes. The picture above is a photo engraving of the winning cockerel at Chicago, December 1913. They report a fine lot of birds of this same line for sale.

lines of his guarantee a little closer he can protect himself from those who are inclined to take advantage of the "I guarantee a satisfactory hatch."

A guarantee like the above is to elastic and puts the whole transaction into the hands of the customer to decide what a satisfactory hatch consists of. One customer might consider seven chicks a good hatch, another is liable to think that nine or ten necessary to get his money's worth, while still another would require twelve or thirteen from a setting of fifteen eggs for his degree of satisfaction. The human element in the case is too variable to trust to any guarantee both ends which are left open. Self protection is required and every breeder shipping eggs for hatching that does not wish to be imposed upon and referred to in uncomplimentary terms in the correspondence of customers should require the testing of all eggs on the seventh day of incubation and the prompt return of all infertile eggs or those showing dead or decidedly weak germs.

HOME-MADE INSECT POWDER

There are scores of so-called "poultry lice remedies" on the market. They are not only more expensive, but no more effective than some of our simple home-made remedies.

A good home-made insect powder can be made by thoroughly mixing one-fourth pint of cresol and three-fourths of a pint of gasoline. Add to this mixture gradually while stirring just enough plaster of paris to take up the liquid. For the above amounts it will take about two and a half pounds of plaster of paris. Spread out thin on paper until dry, screen carefully and it is ready for use. If strong crude carbolic acid is available it can be used instead of cresol. This powder can be boxed, put in a dry place and kept for a long period of time.

To apply the powder, dust the birds thoroughly around the vent and in the fluff under the wings. This application should be followed by a second in four to six days to kill the lice or mites from the unhatched eggs or "nits" present at the first treatment.—C. S. Anderson, Colorado Agricultural College, Fort Collins, Colorado.

THE DANDY COLONY BROODER

The North Eastern Mfg. Co., Keesville, N. Y., announce a new automatic coal burning Colony brooder at a popular price. This stove is self-feeding, self-regulating, simple safe and thoroughly reliable and will safely care for from 100 to 500 baby chicks and costs only \$15.00 ready to use. This new stove is a full brother to the larger and higher priced stove manufactured by this company, that was so popular with progressive poultry raisers to be even more popular on account of the low prices, making it possible for a large number of the smaller breeders to adopt this style of brooding. This stove is very freely described in a 6 page folder now being mailed, and if you, reader, have not received a copy you better loose no time but send today. Just mention A. P. W. and it will be appreciated.

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CAPON TOOLS

MORE THAN DOUBLE YOUR COCKEREL PROFITS
 Capons grow twice as large on the same amount of feed and bring twice the price per pound.
 Complete set of reliable, practical, easy-to-use Capon Tools —full, illustrated instructions included. Parcel Post prepaid.
\$2.50
 Capons bring 30c per lb.
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G. P. PILLING & SON CO., Phila., Pa.
 Send for FREE Capon Book

MODEL INCUBATORS WIN

Standard Model Incubators win on every single point. 100% Hatches three consecutive times is the record. Safest, most convenient and cheapest to operate.

Guaranteed Incubators \$10.00 to \$48
 Every part made by ourselves.
FIRE-PROOF CONSTRUCTION

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Each size inspected and labeled in our factory under inspector of National Board of Fire Underwriters—means SAFETY and lower insurance.
 Outlasts others by years. Gas-tight—heavy insulated walls. Automatic, well balanced regulation—uniform circulation and ventilation.
200-EGG AMERICAN STANDARD ONLY \$17.00
 Built on the same correct principles. Fire—and smoke-proof heater. Durable construction. Greatest offer in hatches ever made.
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 —Hot Water heated—Ventilation, regulation and moisture correctly applied.
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 Also Oil-Burning **CHICK COMFORT HOVER**. All metal—fireproof—dependable under all conditions.
128-PAGE, NEW POULTRY BOOK
 "First Aid to Poultry Keepers" FREE. Valuable for laymen and successful breeder. Write for it today.
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MADISON SQUARE GARDEN WINNERS **SCRANTON'S S. C. RHODE ISLAND REDS**

Have been tried before the HIGHEST TRIBUNAL, and found guilty of carrying away the most coveted prizes from America's premier show, MADISON SQUARE GARDEN. They won in the strongest competition possible, first and third pen, first cockerel, second and fourth pullet, fourth hen, color special on male, best display with more than twice as many points as my nearest competitor and grand special for the champion S. C. Red of the show. Have fifteen of the best matings this season ever in my yards. Mating list ready February 10th. A copy is yours for the asking.

B. H. SCRANTON, **RISING SUN, IND.**

SELECTING SPECIMENS FOR THE BREEDING PEN

(Continued from page 257)

able. It is true that it will require much effort and the working out of many details to teach one these things but then that is what the breeding of poultry consists of if one succeeds.—C. R. Baker.

Gensemer Brothers, Creston, Ohio, breeders of Red and Speckled Sussex believe that color, type and vigor are the essential points in breeding this variety.

In the breeding of Sussex either Red or Speckled we find the color is one of the most difficult to get, yet one of the most important to have. By mating birds with proper surface colors and under color we find they will reproduce satisfactory young stock, whereas, if the surface colors and under colors are lacking we are sure to find plenty of disappointments in the next year's youngsters.

The next point is type—A bird may be ever so beautiful in color, but if lacking type it is a disgrace to the variety it represents. Among the many objectionable points in type of the Sussex are the knock knees, short narrow backs, fish tails and bad combs, but with careful breeding and mating these points may be strengthened.

Last but not least of the three comes, vigor. The best breeding stock with the most beautiful colors, and perfect in type are worthless as breeders if they lack vigor. The breeder of any imported variety overlooks the best bet if his stock is not healthy and vigorous. Every breeder of imported birds has the acclimating process to contend with. During this process the vitality and strength of the bird is weakened and unsatisfactory results usually follow in the next year's young stock.—Gensemer Bros.

Health and vigor the first requirement then standard qualities and utility value says Lew H. Bown, East Aurora, N. Y., breeder of Columbian Plymouth Rocks and Columbian Leghorns.

In reply to your question as to what constitutes the three most important characteristics in birds to be selected as breeders it has been my experience that health and vigor are the first and most important. On this point one cannot be too careful because it is the first essential in the successful breeding of poultry, or any other live stock for that matter. Many a beginner has met with failure because he overlooked this very important requirement. It is not enough to have the assurance that the birds are in good health at mating time, but we must know to a certainty that the birds we select have never been sick as the specimen that recovers from an attack of disease has had its vitality impaired and is not fit for the breeding pen. My method is to mark all such birds, no matter how good in other ways to prevent them being selected for breeders.

Next in line the specimen, male or female must stand high in standard requirements and this applies to both shape and color. The aim of all breeders should be for improvement in this direction and we cannot hope to achieve success unless we use the very best specimens from which to breed. It would be folly to

use a male that was sadly lacking in shape just because he had wonderful color, or one of good type that was away off in color requirements, and let me add right here that it is necessary that we know something of the blood lines and the breeding back of our birds. It is right at this point that many beginners fall down by attempting to mate birds of which they know little. My advice in such cases is to write the breeder from whom the stock was obtained and ask his advice in mating the birds.

The next requirement is the utility value, as no bird should find a place in the breeding pen unless it is a good producer. We cannot afford the expenditure of care and feed on our birds unless they have the ability to produce a profitable number of eggs and it is my firm belief, in fact it is my experience, that high standard quality and egg production can be obtained in the same bird. True some breeders in their craze for high exhibition quality overlook the producing end, but they are in the minority. We have hundreds of examples of successful poultrymen,—the ones that win the prizes—that also produce birds that have a reputation as egg producers. I attribute my success to demanding the above requirements in my breeding pens and advise the beginner to do likewise, even at the expense of making smaller matings and disposing of all specimens that do not fully measure up the above requirements.—Lew H. Bown.

FAIRMOUNT WHITE WYANDOTTES

Harrison C. Dawes, Proprietor Fairmount Farm, Marlborough, N. Y., becomes an A. P. W. advertiser with this issue and invites readers to investigate the Fairmount strain White Wyandottes. Mr. Dawes informs us that his strain is bred for constitutional vigor, standard requirements and the ability to lay nice large brown eggs. He is now booking orders for eggs for hatching, which we understand are very moderately priced. For full information, write today mentioning A. P. W. for folder giving full description and prices.

DUTTON'S REDS WIN !! At the Greater Buffalo Show, November 22-27 in one of the strongest classes of the year my "Niagara Strain" R. C. and S. C. Reds win as follows: 1 cock, 1 hen, 2 cockerel, 1-4-5 pullet, 3 pen old, S. C. Reds and 1 cock, 2 hen, 5 cockerel, 2-4 pullet, 2 pen young on R. C. Reds. Cocks, hens, cockerels and pullets of the same quality now ready. Let me quote you prices. **E. M. DUTTON, NEWFANE, N. Y.**



Make Your Hens Lay

You can double your egg yield by feeding fresh-cut, raw bone. It contains over four times as much egg making material as grain and takes the place of bugs and worms in fowls' diet. That's why it gives more eggs—greater fertility, stronger chicks, larger fowls.

MANN'S LATEST MODEL BONE CUTTER

cuts easily and rapidly all large and small bones with adhering meat and gristle. Automatically adapts to your strength. Never clogs. Sent on 10 Days' Free Trial. No money down. Send for our free books today. **F. W. MANN CO. Box 355 MILFORD, MASS.**

Free Book Tells How

Bown's Big Three

Columbian Rocks

White Faverolles

Columbian Leghorns

If you want to win at a certain show; if you want to improve your stock, or if you want a variety that will make money for you let me tell you about my "Big Three". For all around purposes, that is, fancy and utility combined, they cannot be beaten. As a fancier fowl, as winter and all the year around egg producers they will meet every requirement and as table fowl they are excelled by none.

I have some choice stock at moderate prices. The number is limited so be quick if you want something good.

LEW H. BOWN, Box W, EAST AURORA, N. Y.



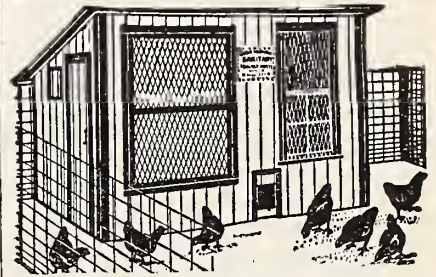
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SAMPLE OUR SEED

Three earliest vegetables in cultivation for 10c. One packet each, Robinson's Earliest Tomato, Earliest Round Red Radish, Earliest Lettuce, 10c to new customers. Regular price 30c. CATALOG FREE. **C. N. Robinson & Bro., Dept. 68, Baltimore, Md.**

Don't Build—It's Cheaper to Buy Potter Redybilt Poultry Houses



A \$36 House, Painted 2 Coats

You can buy Portable Houses, Sanitary Roosting and Nesting Fixtures, Coops, Hoppers, etc., cheaper than you can build. Houses, \$16 up. Complete henery 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., 19 Forest Ave., Downers Grove, Ill.



35 Hen Complete Potter Outfit \$6.60

THE OXFORD, NEW YORK, SHOW

An Interesting Story of How Grit and Determination Resulted in Building Up a Successful Show

IT may not be generally known that Oxford, New York, is one of the poultry centers in the state. There are several large poultry establishments in the village and vicinity. One of the poultry enthusiasts, who thinks he has the best combination of fancy and utility points in the Buttercups, was one of the leaders in persuading his neighboring poultrymen to strike out along progressive lines, according to the needs of the times and hold a poultry show. The result was that one very good show was held. They found they needed a fund to properly finance their show. A few must go quite deep in their pockets to back it up and even with the assistance of some generous helpers there was a lack of funds to finance the kind of a show they wanted. They were only satisfied to make their enterprise a big success.

It soon became evident to the progressive Oxford poultrymen that the solution of their problem was organization. Mr. Harrington and a few others went ahead and called a meeting and it was decided that only a stock company could serve their purpose. The initial organization was effected and stock offered for sale. An amount that assured the success of the organization was readily sold. Not only representative poultrymen, but public spirited citizens and business men bought stock. The raising of a substantial fund in this way made it possible to make one of the greatest inland poultry

shows in the state, while the officers of the new organization proceeded to do.

They saw that the main feature of their show should be its educational value to the town, especially to the young people, so they secured the co-operation of the board of education, which contributed the use of a large building for holding the show. This building was furnished with needed equipment from the funds of the association. This fund also paid for printing such literature as premium list, catalogues and advertising matter. The building was furnished with about 1000 exhibition coops and there was space for booths for poultry supply men, in fact none of the essentials or details needed for a first class show was neglected.

One educational feature in connection with the show, was a Cornell Extension Poultry School, where visitors to the show could receive instructions in poultry science by both object lessons, by seeing the birds, and by actually attending classes taught by Professors from State College of Agriculture. A poultry literature booth was provided where all the poultry journals and standard literature were shown. Also of educational value was the section containing exhibits from Cornell University, showing models of poultry houses, equipment, etc. A comprehensive school in poultry culture was the ideal in the minds of its promoters. Incidentally there would be the advertis-



RED SUSSEX PULLET

This grand pullet is one of the many that has helped her owners and breeders, Gensemer Brothers, Creston, Ohio, to make records from coast to coast. Among their most recent achievements is their record at the Panama-Pacific and Cleveland, Ohio shows. The above picture gives an unusually good idea of quality type and color in this champion pullet. The above firm have an interesting announcement on another page. Better look it up.

*** What do you like best in this issue. A postal card will do. Tell us things you find in A. P. W. If it helps you it will help them.

Bean's Harvard Reds

WIN AGAIN AT NEW YORK

First pen, first, second, third and fifth cocks, first cockerel, second pullet and third hen in Rose Combs.

Easily the Most Sensational Win on Rhode Island Red Males in the History of Madison Square Garden

Add to this record, second pen, third cockerel and second display in Single Combs at the same show and then emulate a certain gentleman of historical fables at the end of 20 years of slumber. You know Van did wake up.

Descriptive circular, price list and illustrated mating list yours for the asking.

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S. C. White Leghorns

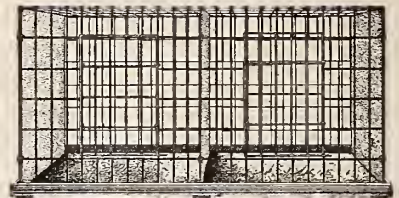
Why not start right by securing hatching eggs and baby chicks from Heigl's bred to lay winter layers. By starting now you are assured of laying pullets next fall when eggs are high. January, February and March hatched pullets make the best fall and winter layers.

I can furnish any amount of strong fertile eggs at any time and guarantee them. Am also booking orders for baby chicks and have part of March and April booked up, so send your order now.

High class breeding stock at reasonable prices. Don't forget that winter laying is a habit with Heigl's bred to lay S. C. White Leghorns.

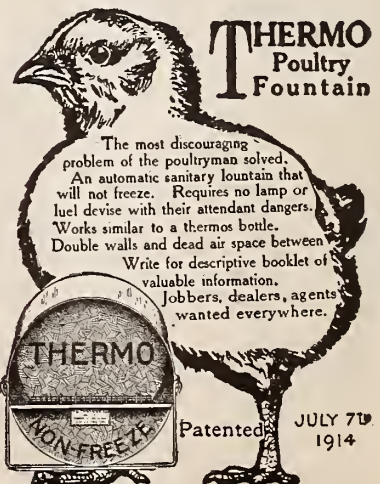
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WARSAW COOPING CO., WARSAW, N. Y.



ARTHUR E. PRATT CO., Inc., Albany, N. Y. Sole Agents for U. S.

ing value to the exhibitors of poultry, and best of all inspiration for doing better work and the acquaintance made by coming together for the purpose of mutual helpfulness in solving problems. The school authorities planned to give the students an opportunity to acquire some useful poultry knowledge by having them conducted through the show, and as incentive to try to learn about poultry was the offering of prizes for the best essays written by students.

After this intelligent and thorough preparation had been made, the poultry show was held in January. Over 900 of the exhibition coops were occupied with nearly all the breeds of poultry and kinds of pet stock known. The quality of the stock was a surprise to some who thought it would be easy to get prizes at a local county show, by showing quite ordinary birds. They found they had come up against some high scoring fowls, in fact some that had taken prizes at great shows were there and proved that the Oxford poultrymen knew how to breed and develop birds that would capture prizes at the country's best poultry shows.

The expectations of the members of the Chenango Valley Poultry Association were more than realized. The show was a great success, an event in which all the people of Oxford took a commendable pride. During the four days of the show all roads in Oxford village seemed to lead to it. One inquiring where he

would find some one, the answer generally was "At the Poultry Show." Visitors to the show learned that Oxford poultrymen had the stock to make a show with, and knew how to so conduct it as to make it both a good business advertising proposition for poultrymen and an educational institution for the village and vicinity. By teaching scientific and profitable poultry keeping, the Chenango Valley Poultry Association perhaps unconsciously is conferring benefits on the town such as are accomplished by chambers of Commerce—benefits which may be far-reaching in good results.

THE MANDY LEE.

Before purchasing an incubator, the prospective purchaser should secure the catalogues of the various incubators manufactured and study their claims and then select the machine that appears to best meet their needs. Among the interesting and helpful catalogues, we wish to mention the one issued by the Geo. H. Lee Co., 308 Lee Bldg., Omaha, Nebr. This book not only describes the Mandy Lee incubators and brooders, but also contains much information on poultry raising that is sure to be of value to any one whether they raise a dozen or a thousand chicks. The Mandy Lee Incubator has been in successful use for many years, and contains many features not found in other machines. Why these exclusive features are made a part of this machine is explained in the free catalogue as well as numerous reasons why the manufacturers believe the Mandy Lee to be the best machine for you to buy. A card sent today will bring the free books, also the name of your nearest dealer.

HOW ABOUT FEED FOR THOSE BABY CHICKS

The successful poultryman is the fore-handed one—the one that looks ahead and makes preparation to meet future contingencies. He don't wait until he is ready to use the incubator himself before he gives them an overhauling and assures himself that they are in good order, neither does he wait until he has a bunch of chicks on hand before he decides on the feed that he is going to use. As the chick season is rapidly approaching it is high time that we settled the feed question and arranged to have a supply on hand and ready when the first chick pokes his head out of the shell. To help out we are going to offer a suggestion and that is that all readers of this magazine who expect to hatch chicks this season, write the Edwards & Loomis Co., 344Z, No. Elizabeth St., Chicago, for samples and prices on their famous "Red Comb" feeds. They also issue a free booklet entitled "Feeding Poultry for Profit" that we should like to see in the hands of every A. P. W. reader. It will be sent free if you mention this magazine when writing.

FAIRVIEW WHITE ROCKS

This record made by Guy Daily's Fairview strain White Rocks at such shows as New York State Fair, The Great Forest City Fair and other prominent shows, proves conclusively that they are among the leaders when it comes to quality. Although Mr. Daily has been highly successful at leading shows he realizes that the small breeder who wishes a good bird or two cannot afford to pay long prices and therefore is prepared to quote you rock bottom prices,—prices that will mean a sale to everyone who realizes the quality of the Fairview White Rocks. Mr. Daily has a beautiful catalogue, and although it cost him hundreds of dollars he proposes to send a copy to every A. P. W. reader who will make request for it and mention this magazine when doing so. Address Guy Daily, Jeffersonville, Ind.

Cyphers Foods and Cyphers Methods
Insure Success with Poultry



A Properly-Balanced, Easily-Digested Food for Hopper and Wet Mash Feeding. Gives Maximum Egg Yield. Write for prices.



A Well-Granulated Mixture of Grains and Seeds. Is Correctly Balanced for Best Results.

FOR twenty years we have studied the problems of poultry feeding. On our \$85,000, 50-acre Experiment and Demonstration Poultry Farm we have tested different methods—proving or disproving different theories and claims—weeding out the worthless and holding fast to that which is good. This work has been done with the object of benefiting—of instructing and advising—Cyphers Company customers.

Cyphers Company Has Solved the Three Problems of Greatest Importance to Poultrymen

FIRST—How to reduce the enormous loss of newly-hatched chicks, due to improper feeding.

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In Cyphers Balanced-Ration Poultry Foods we offer poultrymen today the benefit of every fact we have learned—the results of our twenty years of work. With every bag we offer you certain results.

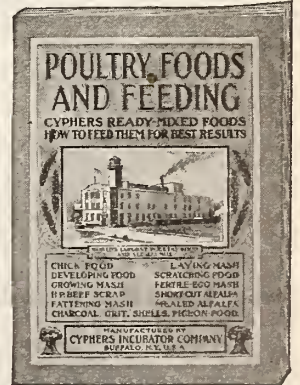
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Composed of the most wholesome grains, correctly proportioned, properly milled, uniformly mixed—and are cheaper than you could prepare the same mixtures at home. Thousands of poultrymen use these Foods and attest to their superiority over other brands on the market.

Write our nearest office today for current prices, learn about our complete line of Poultry Foods, and be sure to ask for our valuable free book.

CYPHERS INCUBATOR CO., Dept. 742, Home Office, **Buffalo, N.Y.**
New York City Boston Chicago Kansas City Dallas Oakland



This book fully describes and illustrates the "CYPHERS WAY" of feeding fowls for profit. Tells how to produce Broilers, Fryers, Roasting Chickens and Capons; also exactly how to feed the Layers and Breeders. 32 pages, 7½ x 10 inches. One Free copy on request to any address. A postal will do.

Government Work For Poultry



Conducted by Homer W. Jackson

EXTENSION POULTRY COURSES

Opinion Varies as to the Value of Extension Poultry Courses. College Correspondence Courses

THE January number of *Farm Poultry* contains an editorial article on the above subject which is of interest to all college poultry instructors. The following extracts will give a general idea of the line of argument followed:

The "extension" service of agricultural and other colleges is a thing utterly foreign to any valid conception of the sphere of a college. For the "short course" for resident students we can find some warrant while the college is the only place to which one who wants instruction and a little practice can go. Eventually the establishment of secondary schools with poultry courses will provide for this more satisfactorily, but the short course is justified by the fact that there are so few opportunities for those who would like to do so to get practical instruction on poultry farms.

When it comes to the extension correspondence course, however, the case is entirely different; for instruction without practice is furnished by poultry books and papers to anyone who can read and use books and his head independently, and for those who require special guidance, there are the private correspondence schools with fees in varying amounts. Considering the question only with reference to general results the poultry press, with all its faults, is far more efficient as a popular educator than all the poultry extension courses will ever be. Considering the case of the individual who needs a little personal attention beyond what he might obtain through the press, there is no more reason why the state should "tutor" him in poultry culture than in any one of numerous other subjects that might be mentioned.

"The true function of the agricultural college in poultry culture is to develop that scheme of instruction for students previously grounded in the elements of the subject."

Elementary Instruction in Colleges

I believe that in a general way college instructors, not only in the poultry department, but in all other departments will admit that the agricultural college is somewhat of an anomaly. From a theoretical point of view, the editor of *Farm Poultry* is right in his contention that the true function of the agricultural college with respect to Poultry Husbandry—or any other agricultural subject for that matter—is to develop a scheme of instruction for students previously grounded in the elements of the subjects.

From a practical viewpoint, however,

there hardly seems to be any room to question the fact that the occasion for an exact application of this principle has not yet developed, for the reason that it is doubtful whether there is any course now offered in our agricultural colleges where applicants really are grounded in the elements of the subject, or have any opportunity to become so.

Under these circumstances, only the most academic can fail to see that the agricultural college cannot escape the practical obligation of giving elementary instruction, whether the subject is poultry husbandry, dairying, animal husbandry or any of the other courses regularly offered.

College Correspondence Courses

When it comes to the question of correspondence courses, the situation may be a little different—in theory; this statement applying to any correspondence course, naturally, and not to poultry courses alone. The statement in *Farm Poultry* that "there is no more reason why the state should 'tutor' him in poultry culture than in any one of numerous other subjects that might be mentioned," suggests a lack of familiarity with the subject. As a matter of fact, while there may be a few colleges offering correspondence courses in poultry only, most of them have such courses in a wide variety of subjects.

The proposal that individuals who desire elementary instruction shall get it from papers, books or private correspondence schools, does not seem to me to be adequate. Just why should the State abandon this particular line of instruction to private institutions more than any other? Granting that correspondence courses have distinct limitations, so long as they are required I can think of a number of perfectly good reasons why they should be given by the state rather than abandoned to the haphazard mercies of private enterprise.

As to the practical value of correspondence courses, the subject cannot be disposed of arbitrarily, nor can it be treated from an entirely theoretical point of view. I am not over-enthusiastic regarding their value, but anyone who has been engaged in this line of work knows that there are thousands of persons on farms and in town who are pursuing correspondence courses on various subjects and who would not secure this information (at least not so rapidly or so systematically) if they lacked the inducement to regular reading and study, which is afforded by the conditions that generally are laid down

by those who are in charge of these courses. The fact that many people want these courses and are benefited by them justifies their existence in large measure.

In this connection it is worth while to consider that while there is a limit to the amount and value of the information that can be imparted through correspondence courses, there also is a possibility that these courses could be developed to an extent that we do not now realize.

The Functions of an Agricultural College

In considering the subject broadly, the editor of *Farm Poultry* cannot treat correspondence courses by themselves. Along with these the agricultural college lately has taken upon itself other functions that seem to him to be quite beneath its dignity. The "Extension Department" especially appears to him to be almost painfully unacademic. But so long as the Agricultural College gives elementary instruction in classes or by way of Farmers Institutes, Movable Schools or any form of public addresses by members of the college faculties, elementary instruction through correspondence courses will be proper and logical.

I am not undertaking to say that the ideal agricultural college should do any of this work. If we are to be entirely logical, it would seem that "extension" work of all sorts should be handled as separate and distinct line of education. Perhaps we shall come to that in time, but let's be reasonable. Right now it is a condition and not a theory that confronts us, and the modern agricultural college is simply meeting a general need that we now have no other organized means of meeting.

Carrying the College to the People

The idea that the correspondence course is "carrying the advantage of the college to the people" has little to support it, of course. As far as the information at present contained in any of the agricultural courses is concerned, they might just as well issue from a high school. But the practical point is that they do not issue from a high school, nor from any other school controlled by the State, and until some other plan is developed for handling this work, I can see no excuse for criticising agricultural colleges for carrying it on.

Few of the "advantages of the college," as we generally think of them, can be realized without attendance at college. But if it is considered desirable

for the college to take upon itself new functions, either temporarily or permanently, resulting, to be specific, in the organization of college extension departments whose function it is to give elementary education along many useful lines not now covered in our general elementary schools, I fail to see why this is an absurdity or a perversion of functions.

It looks to me like proof that our agricultural colleges are awake to present-day condition and needs—a charge that can be accurately brought against very few of the colleges that are functioning normally from the Farm Poultry viewpoint!

UTILITY POULTRY BREEDING

New Zealand Poultry Raisers Alive to Fact That Standard Requirements and Utility Values go Hand in Hand

I find the following in a recent copy of the Journal of Agriculture, a publication of the New Zealand Department of Agriculture, which bears directly on one phase of the "Utility" discussion which is becoming so general just now:

Combined with the desired constitutional points and features suggestive of laying-power there must be due consideration given to breed characteristics. Many utility poultry keepers contend that egg-yielding power must be the first consideration, and that a few black feathers in a white bird, or feathering on the leg, or a red lobe where it should be a white one, or a wrong color of eye, or a squirrel or wry tail, have nothing to do with egg-production, and should not be considered in selecting a bird for a breeding-pen. The wise poultryman, however, he who has learned in the school of long experience, knows better. The reason is obvious. It is said that like begets like, but

this is only where the parents are absolutely pure, and have no stain in their pedigrees. The appearance of bad breed-points is invariably an indication of reversion to an undesirable ancestor, probably a bird of another breed introduced at some time with the object of strengthening some particular character in the strain.

In the past, an incorrect interpretation of the English standards led to judges favoring fancy abnormalities; but with a return, by means of properly conducted utility classes or a pure-bred poultry show, to a correct reading of the standard it is to be hoped this regrettable tendency will be checked, and that the best stock at shows of the future will be birds in which beauty is happily combined, as it always should have been, with utility. The utility poultryman should meet the fancier more than half-way, then there might be some hope of ending in the near future the fiasco now common throughout the country of separate classes for fancy and utility stock. The poultry exhibit should be like the exhibit of all other agricultural stock in which the possession of breed-points is imperative, but must be accompanied by constitutional and utility characters.

I have stressed the matter of breed-type in order to emphasize its importance in the perpetuation of developed characters. By all means aim at the high-type layer; but of what avail is it to secure an improved type in this connection if the desired development it possesses cannot be transmitted with any degree of certainty.

This seems to me to be a very rational statement of the matter and I believe it applies with just as much force to poultry breeding in this country as it does in New Zealand where it originated. For the sake of emphasis, I would like to repeat the statement that "the utility poultryman should meet the fancier more than half way"—**MUST** meet him more than half way, as a matter of fact,

if the breeding of his flocks is to be put on either a scientific or a practical basis.

FEEDING COTTON-SEED MEAL TO POULTRY

Additional Light on the Subject of Feeding Cotton-Seed Meal as a Source of Protein

This subject is receiving a good deal of attention in poultry papers at the present time, especially those circulating more generally in the south. Cotton-seed meal is abundant and easily secured in the south and also is cheaper as a source of protein than meat scrap, pound for pound. I believe firmly in utilizing home-grown foods, or those that are most easily secured as far as it is practical to do so, but it seems to me that as a fixed policy, there is great danger of overdoing it at times, and the present effort to boom cotton-seed meal appears to be a case in point.

It is true that it is not necessary that cotton-seed meal should be as valuable or even as cheap as meat scrap to warrant general advocacy of its use in the south where it may be so readily secured. But if it does not produce as good results, if it is not a palatable source of

MUSTARD:

Its Relation to Poultry and Egg Production

Is the title of a 32 page booklet we will send on request. It gives the interesting results of Captain Ralph Allen's experiment in feeding Mustard to poultry, and other helpful information. It will introduce to you, without obligation,

FRENCH'S POULTRY MUSTARD

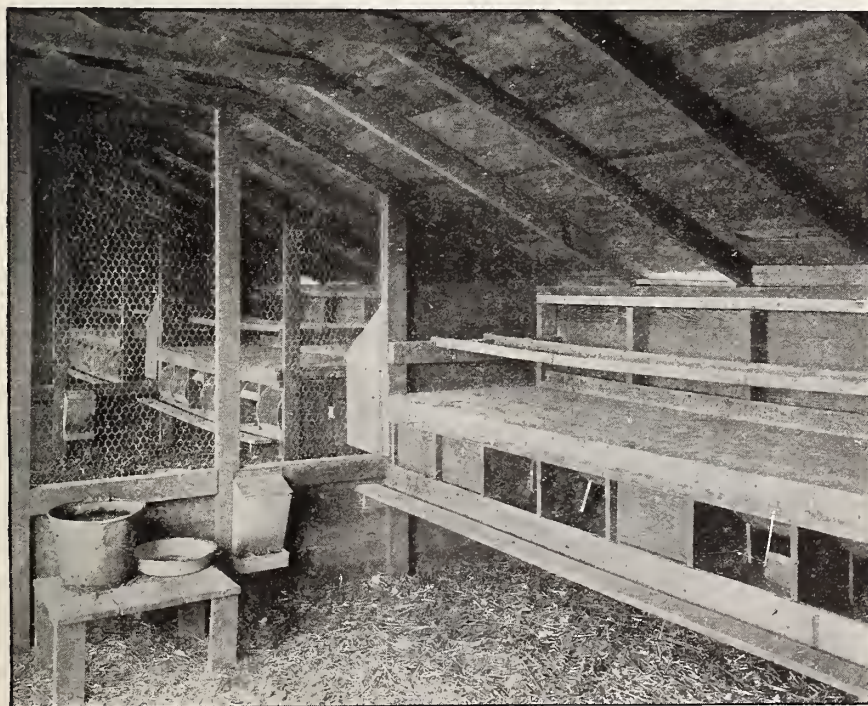
The Original Poultry Mustard in America

Used and endorsed by such prominent poultrymen as E. B. Thompson, Haldie Nicholson, C. F. Rankin, E. S. Aldrich, A. E. Martz and thousands of other satisfied customers. All testify as to its beneficial relation to an increased egg production, fertility, stamina and vitality, at a cost not to be considered with the results.

Sold by most dealers only in sealed packages of various sizes.

Write for a booklet and give dealer's name if he can't supply you.

The R. T. French Company
Dept. B, Rochester, N. Y.



INTERIOR VIEW OF MAIN LAYING HOUSE UNIVERSITY OF MISSOURI

Showing arrangement of perches, trap nests, drinking platform, etc. Note opening between rafters for summer ventilation. Two types of trap nest are shown. The one in the first pen is known as the "Connecticut", the other is an old revolving type for which there does not seem to be a special name. This old type of nest appears to hold its own with new inventions on several college and station plants.

protein, or if it is not as safe a food for the fowls, then there is room to question the wisdom of recommending its use simply on the ground of convenience.

Recently, Clemson College, South Carolina Station, has recommended the following mash mixture for laying flocks:

The "Clemson" Mash

Cotton-seed meal.....	100 lbs.
Cornmeal	50 lbs.
Grounds oats	50 lbs.
Bran	50 lbs.
Shorts	50 lbs.

A number of experimental tests with cotton-seed meal were made several years ago at the North Carolina Station and the statement is made that when the mash mixture contained enough cotton-seed meal to provide sufficient protein to balance the ration, it was unpalatable and the fowls would not consume enough of it. At best, therefore, it was necessary to add more or less meat scrap to get enough protein to secure satisfactory egg production.

In comparison with the "Clemson Mash," I would like to refer to the review of Circular No. 5 of the North Carolina Station which was published in this Department last September. This circular deals with some recent experiments made there which showed that when the fowls had a ration carrying 10 per cent. of cotton-seed meal, they did not eat it readily; and when the proportion was increased to 20 per cent., the fowls lost weight and some deaths resulted.

There is a general belief that cotton-seed meal is not palatable and is liable to result in injury when freely consumed. The claims that are made for it seem to indicate that where fowls have been fed a ration noticeably deficient in protein they do respond in production to increased protein, even though it be from cotton-seed meal sources.

It appears to be generally conceded, however that protein from animal sources is a good deal better if the feeder can be induced to supply it that way. The following pertinent paragraphs on this subject are from an article entitled, "Does it pay to feed cotton-seed meal to laying hens?" in the December number of the Oklahoma Agriculturist, a monthly publication of the Oklahoma A. and M. College:

Oklahoma Experiments

There were three pens in the experiment. Each pen contained ten Single Comb White Leghorn hens and two male birds. All pens received the same grain feed, which was composed of equal parts by weight of whole wheat and kafir. They were given a liberal feed of this grain mixture night and morning in the litter. A dry mash was kept before them all the time in an open hopper. The mash for each pen was composed as follows:

Pen No. 1

- Mill run, seven pounds.
- Corn chop, six pounds.
- Beef scrap, two pounds.
- Bone meal, one pound.

Pen No. 2

- Mill run, six pounds.
- Corn meal, six pounds.
- Cotton-seed meal, three pounds.
- Bone meal, one pound.

Pen No. 3

- Mill run, three pounds.

- Corn chop, three pounds.
- Cotton-seed meal, nine pounds.
- Bone meal, one pound.

Thus Pen No. 3 received a large excess of cotton-seed meal. One hen and one male bird died as a result of too much cotton-seed meal.

Table Giving Results of Experiment

Pen No. 1, Feed Cost..	\$14.48	No. eggs.	1389
Pen No. 2, Feed Cost..	12.83	No. eggs.	984
Pen No. 3, Feed Cost..	9.87	No. eggs.	750

This table shows the beef scrap to be the most economical egg producer, even though it costs more than cotton-seed meal. The increased production will bring the net profit above that of cotton-seed meal.

The conclusion which the writer of this article draws from the experiment is that—"it is more desirable to feed cotton-seed meal than not to feed any protein feed at all, but by all means feed beef scrap if possible."

How palatable the "Clemson Mash" with its 33 per cent. of cotton-seed meal may be, we are not told. It is interesting to note that no claim is made that this mash has been tried out at the College in comparative tests or any other way. Certainly nothing has been brought out in the discussion, even by the friends of cotton-seed meal, to warrant anyone in substituting it for more palatable and more productive meat scrap.

ANIMAL FOOD AND SKIM-MILK IN LAYING RATION

Interesting Data on the Value of Skim-Milk Versus Animal Food in Laying Rations

I called attention in this Department in November issue to some experimental milk feeding at Storrs, which indicated that milk has special value in feeding for egg production. The fact was noted that in these experiments milk was given in addition to the regular ration, no attempt being made to adjust the rations to offset the extra protein obtained in this way and hence not affording any direct evidence as to the value of milk when compared with other sources of protein such as meat scrap and fish scrap in rations of the same nutritive value.

Feeding Milk at West Virginia Experiment Station

In an article by Prof. Atwood of the West Virginia Experiment Station,



Madison Square Winners

Over 45 prizes and egg records 200 to 288. Rose and Single Comb Brown and White Leghorns, S. C. Reds 248 Eggs. White Wyandottes and Barred Rocks 270. Stock for sale. Catalogue.

W. W. Kulp, Box 12, Pottstown, Pa.

WHITE PLYMOUTH ROCKS COCKERELS and PULLETS FOR SALE

Eggs after February 1, from six fine pens at \$1.50 to \$3.50 per setting. Winners at State Fair, Cleveland and others.

THEO. L. POOLE, BOX F, DEWITT, N. Y.

Fellows' Famous Farm Raised Buff Wyandottes

Winning at Rochester, N. Y. December 1914 best exhibit, color and shape special on pullets, 11 ribbons on 12 entries. Batavia, N. Y. January 1915 1-2 cocks, 1-3 cockerels, 1st pen and 2 hen, 2 pullet. Cleveland, Ohio, January 1915. 1st hen, 2 pen, 3rd pullet, 10 cockerel, this was National Meet of the Buff Wyandotte Breeders Club. Send for mating list. Mention A. P. W.

E. B. FELLOWS, R. F. D. 1, SCOTTSVILLE, N. Y.

ALLEN'S GUARANTEED FOODS

The supreme test of foods is the result. Allen's Mash for Layers and Quality Scratch Foods bring quicker and better results than any other foods made. We back our claim with an absolute guarantee.

More Eggs or Money Back

-If your hens do not exceed their present laying record within six weeks, ship unused portion of foods back collect—and your money's refunded

ALLEN'S MASH FOR LAYERS, \$1.90, 100 lbs.

A scientifically balanced food, guaranteed to increase each hen's production without strain.

Now's the time to get big prices for your eggs.

Allen's Nutro Chick Mash, \$2.20 100 lbs.

A. E. Kerlin of Central Hall, Pa., writes: "Since using Allen's Nutro Chick Mash we have reduced the rate of mortality among our chicks to practically a cypher. As a laying mash, we find it among the best egg producers on the market."



Allen's Nursery Chick Mash, \$2.20 100 lbs.

No matter how successful your hatching has been, it'll all go for nothing if your chick foods are not absolutely right. Allen's Nursery Chick Foods grow heavier, healthier birds—do it quicker and with more certainty.

Write for price list and full information. Remember our guarantee—you're taking no chances, so write today.

ALLEN MILLING CO., Dept. 4, Niagara Falls, N. Y.

which appears in Bulletin No. 6 of the West Virginia Department of Agriculture, reference is made to a similar experiment in milk feeding as follows:

Regarding the value of skim milk for egg production two experiments have been carried out at the West Virginia Experiment Station. In the first test two pens of Single Comb White Leghorn fowls were used, each lot containing twenty hens and two cocks. In the second test each lot of fowls consisted of sixty hens and six cocks. Each test was carried on for practically three months.

The skim milk was first allowed to sour, then it was used to moisten the ground feed which was fed to one lot of fowls, while water was used to moisten the mash for the other lot. In both tests both lots of fowls were fed and handled in the same way with the single exception noted. Eight to ten quarts of sour skim milk was fed per day per hundred fowls, and the general result of the two tests was that the fowls whose mash was moistened with sour milk laid better than the fowls whose mash was moistened with water. In the two trials 802 quarts of skim milk were fed, resulting in an increase in the egg production of 702 eggs.

For some reason, not fully understood, thick, sour skim milk seems to have a greater value for hens than sweet milk. This may be due to the milk sugar not being digested and assimilated by fowls, or possibly the lactic acid which is present in sour milk, may have an especially beneficial effect.

While it is not definitely so stated, the inference is that these experiments were similar to those at Storrs in that milk was given to all pens in addition to the regular rations provided for both milk-fed and check pens. As a test of the actual feeding value of milk, therefore, the same limitations apply as noted in connection with the Storrs tests.

"The Value of Meat Scrap, Fish Scrap and Skim Milk in Rations for Laying Pullets."

I have just received a copy of Bulletin No. 182 from Purdue University, with the above title, in which details are given of an experiment in which meat scrap, fish scrap and skim milk are compared in rations of exactly the same nutritive ratio, thus meeting the objections that were raised regarding the Storrs and West Virginia experiments. The following extracts and summary of results are from this Indiana bulletin:

Experimental investigation of the feeding value of meat scrap, fish scrap and skim milk for poultry was inaugurated in the fall of 1910 and continued for four years.

The object of the experiment was to find the feeding values of the three above named feeds as a source of protein in a laying ration for poultry. Meat scrap is well known as a poultry feed, and every farmer has skim milk, but fish scrap is not widely used in the middle west. None of these three feeds are commonly found in the poultry rations of the farm flocks of Indiana.

The variety of chickens used was the single comb White Leghorn. Flocks of twenty-five and thirty April-hatched pullets were used in each test. The houses used were 10 by 12 feet and each flock had a cultivated yard, 120 by 150 feet, planted to young fruit trees and corn. Rye was used as a cover crop in the fall. Similarity of environment and care was possible in every respect.

Rations and Feeds

The rations used were simple and easily obtainable on most Indiana farms.

**RATION NO. 1
Meat Scrap Pen**

- 10 lbs. corn
- 10 lbs. wheat
- 5 lbs. oats
- 5 lbs. bran
- 5 lbs. shorts
- 3.6 lbs. meat scrap

**RATION NO. 2
Fish Scrap Pen**

- 10 lbs. Corn
- 10 lbs. wheat
- 5 lbs. oats
- 5 lbs. bran
- 5 lbs. shorts
- 3.6 lbs. fish scrap

**RATION NO. 3
Skim Milk Pen**

- 10 lbs. corn
- 10 lbs. wheat
- 5 lbs. oats
- 5 lbs. bran
- 5 lbs. shorts
- 50 lbs. skim milk

**RATION NO. 4
Check Pen**

- 10 lbs. corn
- 10 lbs. wheat
- 5 lbs. oats
- 5 lbs. bran
- 5 lbs. shorts

Methods of Feeding

The grains were mixed and fed by scattering rather lightly in the straw litter in the morning, and all the birds would eat up clean at night. This meant that about one-third of the grain ration was fed in the morning and two-thirds at night. The bran and shorts were mixed and kept in an open hopper before the birds at all times. The milk was fed in an open pan in place of water. The meat scrap and fish scrap were mixed with the bran and shorts. The total food consumed in any given period was always made up of feeds on the above proportions. Thus the ration was always properly balanced. The corn in the grain was reduced in the hot

summer months and one pound of oil meal was added in the fall during the molting season. Grit and oyster shell were always before the birds.

It will be noted from these rations that they were all similar in every respect except in the meat food factors. The stock, environment and methods of management were the same and, therefore, any difference in egg production between any of the above pens must be due to the difference in ration.

The following table gives the summary of averages of the different pens in the four years during which the tests were continued.

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WHITE CORNISH**

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It contains valuable egg record for every pen for each day in the year IT SHOWS 78 GUARANTEED ARTICLES for the poultry breeder at LOW DIRECT TO YOU PRICES.
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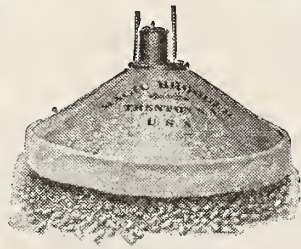
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The Brooder built for actual service and not a toy.

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If you wish to succeed you must have brooders which will do the work. Write today for circulars describing same. We will also mail you our brooder booklet free. Address,

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SUMMARY OF AVERAGES

	Meat Scrap Pen-2 yrs.	Fish Scrap Pen-2 yrs.	Skim Milk Pen-4 yrs.	Check Pen 4 yrs.
Total number of pounds feed consumed				
per bird	70.296	74.139	157.615	57.018
Cost of feed per bird	\$.984	\$.995	\$ 1.10	\$.722
Cost of producing one doz. eggs...	.085	.097	.097	.30
Eggs per pullet	138	128	135.4	32.5
Income per bird	\$2.602	2.593	2.778	.67
Profit over feed per bird	1.557	1.562	1.629	.097-loss

FERTILITY AND HATCHABILITY
OF EGGS

	Av. P. C. eggs fer.	Av. P. C. eggs hatched
Meat Scrap	93	83.5
Fish Scrap	86.4	58.85
Skim Milk	89.95	70.55
Check	94.05	74.7

The most striking feature of the experiment is the influence of animal protein on egg production. The addition of some form of meat food in a ration, increased the egg production about one hundred eggs per pullet per year. This would mean about 10,000 eggs in a farmer's flock of one hundred hens.

SUMMARY

When fed skim milk pullets laid slightly better in December and January.

The feeding value of meat scrap for Leghorn pullets was \$23.92 per hundred pounds; of fish scrap was \$27.65 per hundred pounds; of skim milk was \$2.04 per hundred pounds.

Leghorn pullets consumed, on an average, of about ninety-three pounds of skim milk per year.

The amount of dry matter to produce one pound of eggs in the meat scrap pen was 3.7 pounds; in the fish scrap pen, 4.02 pounds; in the skim milk pen was 3.7 pounds, and in the no-meat food pen was 13.53 pounds.

At 30 cents per hundred pounds, skim milk is slightly more expensive than meat scrap at \$2.50 per hundred pounds.

COMMENT

As a comparison of the feeding value of meat, fish scrap and skim milk there does not seem to be anything lacking here, and I see no reason why the results should not be accepted as conclusive. It will be seen from the table that there was little difference in the number of eggs produced by fowls fed on rations containing various sources of protein, when fed in amounts sufficient to make the nutritive ratio of each ration the same. It seems probable, therefore, that the extraordinary results secured with milk by other investigators were due to the fact that the milk was added without any compensating change in the ration.

It is interesting to note that hens fed on skim milk laid better in December and January than the others. It is probable that those who are seeking to produce eggs under unfavorable conditions can afford to give a good deal of attention to providing rations that are especially palatable and easily digested.

This experiment shows that while one pound of eggs may be produced on an average consumption of four pounds of dry matter, it takes more than three times as much where the ration is deficient in any form of animal food. Those who refuse to purchase meat scrap on the ground that it is more expensive than grain and more troublesome to obtain, have here a pointed lesson in regard to this "penny wise and pound foolish" policy.

When it comes to drawing conclusions regarding the relative value of animal food in the ration, these experiments ap-

pear to be insufficient. A study of the experiment shows that the check pen—or pen without animal food—was given a ration much wider in its nutritive ratio than the other pens. The nutritive ratio in pens 1, 2 and 3, as I figure it, was about 1:53, while in the check pen it was nearly 1:7. In order to have an exact comparison of the value of animal food, it would be necessary for the check pen to have a grain ration with the same nutritive ratio. If this condition had been observed, I think a different result would have been received.

I have already referred in this department to my own experiments in which tests were made with rations providing protein from vegetable sources only in comparison with others containing meat and milk, and resulting usually in the pens with vegetable protein exceeding the production of the meat-fed pens.

In spite of these results, I do not believe that protein from vegetable sources is equivalent in value to protein from animal sources, nor is it probable that vegetable protein generally will produce results equal to those realized when animal food is provided. I do believe, however, that in rations with the same nutritive ratio, fowls that are fed exclusively on vegetable protein will make a much better showing than is implied by the statements in this bulletin.

In comparing the results of the Indiana experiments with results likely to be secured on the average farm, no account appears to be taken of the fact that the experimental pens were kept in much closer confinement than usually is the case with farm flocks. Fowls on free range are able to add materially to the protein secured in the supplied ration, not only from animal but also from vegetable sources.

The assumption, therefore, that the addition of some form of meat food to the ordinary farm ration would mean "an increase of 10,000 eggs in a flock of 100 hens" hardly seems warranted. It is true that the greatest lack of the farm ration is animal protein and that feeding meat scrap or milk is almost certain to result in marked gains in egg production and increased profits. Nevertheless, it is doubtful whether such gains will be made with the average farm flock as were made with these confined pens.

The table showing effect of the different rations on the fertility of eggs is interesting. It will be noted that while the check pen made an extremely poor record in production, the fertility was slightly better than in any of the others. There is nothing, however, to indicate that this difference is anything more than accidental; nor do the results seem to indicate any special disadvantage from the use of either of these special protein foods, unless possibly in the case of the fish-scrap pen.

The injurious effect of meat scrap on fertility, if there is any, probably only

occurs where the amount fed is much larger than appears to have been the case in these experiments.

ANIMAL PROTEIN FOR LAYING
HENS

Recent Experiments at California Agricultural College Favor Animal Protein for Egg Production

In the last Annual Report of the College of Agricultural and Experiment Station of the University of California I find the following with reference to this subject:

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AMERICAN POULTRY WORLD

BUFFALO, N. Y.

It was found as a result of investigations covering a year that animal protein should be fed to laying hens to secure the best results. It was, also, found that a good grade of fish scrap gave as good results as commercial meat scrap and when properly fed did not in any way taint the eggs laid. A check pen of fifty, two and three-year-old hens without high protein feed laid 102.1 eggs per hen during the year. Pens of similar character and fed high protein in addition gave the following number of eggs per hen per year:

Soy bean meal	104.9
Meat scrap	129.7
Fish scrap	131.7

The following year five pens of thirty-three hens each were fed a grain ration consisting of a mixture of 150 pounds of whole wheat, 100 pounds of whole barley and 50 pounds of cracked yellow Indian corn or whole Egyptian corn. They were also fed a so-called dry mash consisting of a mixture of 50 pounds of bran, 50 pounds of shorts, five pounds of fine charcoal and one pound of fine salt, to which were added 30 pounds of meat scrap alone or 30 pounds of a high-protein ration consisting of a combination of meat scraps with soy bean meal or O. P. linseed meal. The average amount consumed per hen per year in the five lots was: grain 49½ pounds, and dry mash 23½ pounds. The average number of eggs laid per hen was 142. The average cost per dozen of grain and mash consumed, 10½ cents. In this trial no advantage was found in a mixture of vegetable and animal protein over feeding animal protein alone. Buttermilk at 20 cents a hundred pounds was found to be a satisfactory and economical substitute for meat scrap at \$3.25 per hundred pounds.

It will be seen that while the vegetable-protein pens are inferior in productiveness to the meat-scrap and fish-scrap pens the contrast is by no means as marked as in the Indiana experiments that have just been considered. In the California experiments, also, it will be noted that the comparison is not so much between vegetable protein and animal protein, as between a particular source of vegetable protein (soy bean meal) and animal food. The question as to whether there are not sources of vegetable protein that will give much better results than have been secured by either investigator, therefore, is still an open one.

In my own experiments previously referred to, old process oil meal was used, as a rule, and while this food when given in liberal quantity is believed to cause digestive disorders, it never seemed to do so in my experiments, possibly because increases were gradually made.

NEW LIGHT ON THE PIGMENT IN EGG YOLK AND BODY FAT OF HENS

What Makes Egg Yolks Yellow, and Why Does Shank Color Fade With Heavy Egg Production

A bulletin, just issued by the Dairy Laboratory of the University of Missouri being a reprint from the November Journal of Biological Chemistry, gives some specially interesting information in regard to the nature of the yellow pigment in the egg yolk and the body fat of fowls. The practical value of this information is indicated by the following introductory paragraphs in the bulletin:

The pigmentation of the yolk of the egg and of the flesh (body fat) of poultry is a

subject of much practical importance in the egg and poultry industry of this country. The consumer demands highly colored yolks in "fancy" eggs throughout the year, and the eggs with pale-colored yolks, so frequently found on the market during the winter months, are the object of much complaint, particularly in cities. Similarly, in some sections of the country, the poultry trade demands a highly colored flesh. For the fancy grade, however, the demand is for a flesh with the least color possible.

The yellow pigment characterizing the skin of hens is becoming of considerable importance in judging their egg laying activity. Thus Woods, of the Maine Station, has recently stated that heavy laying invariably produces a marked reduction in the yellow color of the shank and that, "it is possible to say positively that no bird which has been a high producer will have bright, yellow legs at the end of the laying season." It should be pointed out, however, that Woods is mistaken in assuming that the pigment of the egg yolk and body fat of the hen is carotin, as the data presently presented will show. Similarly, Blakeslee and Warner of the Connecticut Station, have presented data that are believed to prove conclusively that pale yellow shanks and beak, and especially ear lobes, in the hen are an indication of much greater previous egg laying activity than yellow shanks, beak and ear lobes. "The assumption is that laying removes the yellow pigment with the yolks more rapidly than it can be replaced by normal metabolism and in consequence the ear lobes beak and legs become pale by this subtraction of the pigment."

What Makes Egg Yolks Yellow?

As this bulletin is decidedly technical, I am giving an "interpretation" of it instead of quoting verbatim. The authors of the bulletin have proved in carefully

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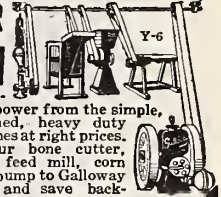
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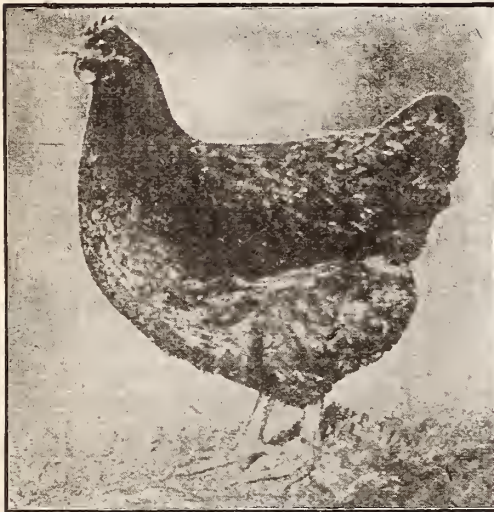
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conducted experiments that while the coloring matter of the milk fat and body fat of cows is derived from carotin, this substance has little influence on the coloring of egg-yolk and body fat for fowls, the material producing this color being xanthophyll. Both of these pigments occur in common foods, frequently in combination with each other.

The experiments recorded in this bulletin were carefully planned to determine the following points: whether foods carrying xanthophyll, to the exclusion of carotin, would increase the amount of the color deposited in the egg yolk; whether foods free from xanthophyll and carotin would reduce egg-yolk color; whether foods carrying carotin, to the exclusion of xanthophyll, would increase egg-yolk color.

These experiments appear to offer definite proof that eggs produced by hens on a ration lacking in xanthophyll were



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invariably light in color and the addition of carotin in large proportion was practically without effect.

Attention is called in this bulletin to the well-known influence of yellow corn in the production of highly colored egg yolks, which, it is stated, is due to the fact that corn carries an abundance of xanthophyll.

It certainly is interesting to learn the exact source of coloring in egg yolk, not that any of us would be able to discriminate between carotin and xanthophyll directly, but it is a comparatively easy matter to ascertain what foods are rich in the latter substance and to govern our feeding accordingly. For example: the popular idea that carrots which derive their color from carotin are of use in feeding for richly colored egg yolks, is clearly shown to be an error by these experiments, the feeding of unlimited quantities of carrots having failed to produce marked effects upon egg-yolk color.

Why Shank Color Fades With Heavy Laying?

With reference to the effect of xan-

thophyll on body fat, results were not quite as clearly defined. The fowls used in the experiments were noticeably pale in beak and shank color when they went into the experiment and there was no evidence that the feeding of rations rich in xanthophyll produced any increase in shank color. The explanation for this is that shank color depends upon the presence of fat—the carrier of yellow pigment; and this being true, it is clear that if no fat is deposited, no color will be added, regardless of what ration may contain.

In discussions regarding the claim that faded color in beak and shank is the result of heavy egg production, the question naturally arises as to whether it would not be possible to secure heavy egg production and at the same time prevent the fading of color in shanks, by feeding a ration sufficiently high in coloring matter. That this is not the case seems to be generally conceded and we now have the explanation in the statement that no matter how rich the ration may be in xanthophyll, there can be no deposition of it in the tissues of the shanks and beaks, unless there is an acculation of fat—a condition that rarely accompanies heavy laying.

These experiments indicate that a hen may be fed an excess of xanthophyll—an excess over the amount required for the coloring of the egg yolks, but that she will continue to lose beak and shank color in exact proportion as she loses in fat.

Experiments involving the raising and fattening of poultry in which it is expected to show to just what extent the color of flesh may be controlled by the feeding of xanthophyll are now being conducted by the Department of Poultry Husbandry at Missouri and the report of these experiments should prove interesting reading.

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The Prairie State Incubators need no introduction to A. P. W. readers as they have been recognized as one of the standard makes for many years, in fact it is one of the oldest and most successful machines on the market. Each season the Prairie State Incubator Co., issues a big free book that is really a poultry keepers manual. To be sure it tells of the Prairie State line but in addition it contains several chapters on poultry raising written in such a way that it is really a valuable reference book and should be in the hands of all poultry raisers both large and small. There are thousands of Prairie State Incubators in use upon the most successful poultry farms of the country, a fact in itself that testifies to the merits of the machine as a rival to the mother hen. Our advice to A. P. W. readers is to send for a copy of this free poultry manual, you need it whether or not you intend purchasing an incubator. It will help you to succeed the coming season if you read and follow the advice it contains. Just drop a line today to the Prairie State Incubator Co., 202 Main St., Homer City, Pa.

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MATING UTILITY POULTRY

By Dexter P. Upham

(Continued from page 261)

bird and the egg laying ability of the best layer in the world may be spoiled by improper feeding. The best egg type bird in the world is no good as a breeder without the good comb, the truth is though, the good egg type always has the good comb. I always discard a bird with a weak undeveloped comb no matter how good apparently the bird is otherwise.

General Characteristics

Next to the comb and almost as important in the physical make up of our useful utility type of breeder is the breadth in all sections and no where is this shown to better advantage than in the head which should be short and round, broad between the eyes which must be large, bright, snappy and not sunken in. And notice the shape of the bill very carefully, if it is long, narrow and nearly straight discard him or her at once as useless. Like the tall thin man or woman with the long thin nose they lack constitutional vigor, and as breeders are worse than useless. If on the other hand the bill is short, broad, and well curved we are sure to have a strong healthy bird. A bird that will grow and develop, one that is capable of using food value to best advantage, and able to withstand disease and the rigor of cold, wet weather and during the breeding season will lay eggs that will have strong fertility and hatch a large percent of livable chicks, other things being equal.

A bird that in a normal position of alertness carries its body so that the back is lower in front than rear should be discarded. Its body should be well balanced on its legs so that its back slopes down from neck to tail and should be broad, long and straight. Especially in the female should the back be long from neck to tail which, of course, necessitates length of keel or breast and also good distance from legs to tail or from the end of the breast bone to the pelvic bones just beneath the tail. Good depth of body from a point just in front of the legs. Broad chest and straight breast bone and back. The number of breeding birds one finds in poultry yards every spring with crooked backs is startling. These birds often look perfectly normal when on the ground, but careful handling of the bird discloses the trouble. Neck should be comparatively short and thick but not too beefy.

Well Set Legs

Stand in back of the bird both male and female and watch the actions of the legs as the bird walks away from you. Legs should be well spread apart where they join the body and that spread should be kept right down to the feet. As the bird walks if the knees are inclined to bend in, ever so slightly, toward each other the bird should be discarded as a good breeding bird. Moreover in walking the birds should throw the foot well ahead of them and place it on the ground hard and solid with toes well spread apart, the middle toe straight in front, and the knee which bears the weight rigid. A weak kneed bird is no good. They should be well balanced on their legs whether moving

or standing still, the legs being under the centre of the bird's body as viewed from the side with large development of the body in front where the crop is and back of the legs where the reproductive machinery is. Long legs are not desirable.

I like a tail broad where it joins the body as that shows breadth of body. Also the tail should be carried rather high especially in breeding females. (Note—On this point we believe there is room for argument. We would not advise breeders of so-called utility poultry who are desirous of retaining standard qualities, —and what satisfaction is there in breeding if we do not keep type uniform—to select the high tailed females but to follow the Standard requirements for your particular breed. The contention that high tailed females produce higher fertility than their lower tailed sisters is a statement that remains to be prove.—Assoe. Ed.) Comparison between breeding pens, one pen with high tail females, the other with low tail females has proven conclusively that the high tail birds ran higher and stronger in fertility and produced more livable chicks than the low tailed birds, the conclusion being reached that the low tailed birds interfered with the service from the male bird.

And last but not least the male to head our breeding pen should have a commanding crow, loud and long. A good

breeding male bird can best be described in the few words "He crows like a Bear."

\$7.85 FOR A 155 EGG INCUBATOR

The Progressive Incubator Co., Box 191, Racine, Wis., are offering a 155 egg incubator for \$7.85 freight prepaid east of the Rocky Mountains. This machine is made of genuine California red wood, has copper heating system, double disc regulator, in fact all the features that go to make a first class hatching machine. This machine together with Progressive brooders is fully described in the free book that will be sent to all A. P. W. readers who will send their address on a postal card. In addition to describing the machine the book contains much valuable information on chickens rearing as well as numerous testimonials from successful users of Progressive outfits. Better write today for the big 1916, combination offer and a copy of the free book.

*** A dime pays for a four months trial subscription to A. P. W. Why not send it to a friend?

NORTH'S BUFF ROCKS

Exhibition Birds a Specialty
D. P NORTH, WAVERLY, N. Y.

Your Prize Winners Your Egg Layers

Must be kept growing. They need and must have the proper egg, bone, muscle and feather developing feeds.

ORR'S POULTRY FEEDS

are noted for their purity and freshness, are the ideal feeds for the growing chick, moulting or laying fowl. **The Utmost in Poultry Feeds.** Send for circular and price list.

WM. ORR & SONS, Box 2, ORR'S MILLS, N. Y.

PAULDING'S S. C. BUFF ORPINGTONS

Again prove their quality by winning at the Great Coliseum Show, St. Louis. With their previous record at the Missouri State Show and Illinois State Fair they have demonstrated that they are equal to the best. My prices on exhibition, breeding birds or eggs for hatching will interest you. Write today.

CLAYTON PAULDING, GREENVILLE, ILL.

WOODCREST PARTRIDGE WYANDOTTES

Line-bred for stamina and perfection. A thousand youngsters bearing the blood of

MADISON SQUARE GARDEN CHAMPIONS

for you. My 1915 season begins with New England Fair, cocks 1-2, hens 1-2, cockerels 1-2, pullets 1-2. All classes of stock at reasonable prices. Buy early.

CHAS. H. WOOD, 340 Main Street, WORCESTER, MASS.

Wisconsin Wins In Big Hatching Contests Every Year

Why Pay More

- For only \$10 you can get these two prize winning machines, delivered, freight paid east of the Rockies.
- You take no risk—money back if not satisfied. You can order direct from this ad. Ask the publisher about us.



Made of California Redwood

Wisconsin Incubators have long proved their wonderful hatching qualities. Competing with every make known, they won in the five big annual National Hatching Contests. Think of it. Five consecutive victories. That certainly proves you can't make a mistake. Shipped on

Both \$10 Machines Freight Paid For Only

■ We also furnish 180 Egg Incubator \$12 and 180 Chick Brooder both for only.

■ Wisconsinans have hot water heat, double walls, 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 1916 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.

30 Days' FREE Trial

MONEY BACK IF NOT SATISFIED

10-YEAR GUARANTEE

■ **WISCONSIN INCUBATOR COMPANY, Box 60 Racine, Wis.**

THE ST. LOUIS SHOW

Although Preparations Were Made on Short Notice a Most Successful and Attractive Exhibition Resulted

BY C. W. SPRINGER

THE officers of St. Louis Poultry, Pigeon and Pet Stock Association deserve great credit for their recent Poultry Show held Thanksgiving week. It was not definitely decided to hold a show until three weeks previous when a meeting of the two factions was held and this motto adopted, United we stand, etc. They unanimously elected Jas. J. Long secretary and to this act they attribute the success of their show. The birds were attractively cooped by the Keipper Cooping Co., under the personal supervision of W. R. Schrader, Supt. With 1422 head of poultry and 624 pigeons the doors were thrown open to the public Monday morning.

Judging began promptly at 8 A. M. and was completed by 6 P. M. the marked catalogue being ready for distribution Tuesday morning. The following judges placed the awards on Poultry: T. H. Shellabarger, Tom H. Woods, W. A. Halbach, Edward Joynson, Newton Cosh, T. J. Rountree, D. E. Hale, Thos. W. Southard, S. G. Householder, while R. C. Sauny judged the display of eggs. While the show was not as large as the shows of the past the deficit was made up by the superb quality. With 211 exhibitors, some from distant states showing the cream of their 1915 production, speaks well for the reputation of quality the Mound City has attained.

The Classes

Plymouth Rocks led in numbers, their being 211 specimens composed of the six varieties. As usual the Barred Rocks led the class with 159 as fine individuals as one would see at any show. To this variety belongs the honor of champion hen of the show, a truly wonderful specimen and champion exhibition pen. This pen was composed of four as uniform and evenly matched pullets both in type and barring as there are bred now-a-days and the cockerel was of the quality that words could not do him justice. The White Rocks with 92 birds were an extraordinary exhibit within themselves.

The Leghorns lost 1st place only by a small number, there being 199 in this class. The S. C. White Leghorns 125 strong made a very attractive display. Exhibits of Black, Buff, and Browns added variety to this class. The 154 Wyandottes while third in number represented more exhibitors than any other class, which shows that the breeders of Missouri realize the value of the Wyandotte

and are combining the utility and fancy in one. The Whites led with 96 specimens the 1st cock being a bird that would speak well for his owner in any competition, was awarded the eup for champion cock of the show only after a long discussion over the first S. C. R. I. R. cock. There were four judges for the White Wyandotte and four for the Rhode Island Reds. Judge F. H. Shellabarger decided it by easting his lot with the White Wyandottes,

The Silver Wyandottes were second in number, and to this truly beautiful variety was the honor of champion cockerel awarded. This bird was of the improved Wyandotte type and his lacing was so distinct that he reminded one very much of the ideal specimen.

The Rhode Island Reds while 4th in number were as usual the center of enthusiasm and some very high prices were received for some of the choice specimens, which shows they are still and always will be in great demand.

The Orpingtons were 5th in number and although there were only 124 there were a few that will drift out into fatter society this winter. One in particular we refer to was the champion pullet of the

SCHNELLER'S PARTRIDGE ROCKS

A strain of prize winners that have rich color and true Rock type. Choice cockerels and pullets for sale. Send for description and prices.

HERMAN J. SCHNELLER, R. D. No. 2, Bethlehem, Pa.

COLE'S BUFF ROCKS

15 years of line breeding makes them one of the leading strains of this popular variety. Their show record is proof of quality. I guarantee satisfaction. If interested, write

FRANK C. COLE, Box 101, VAN WERT, O.

POULTRY BAND FREE



PATENT APPLIED FOR
Send for sample and trial offer of the Bourne "Bigum" poultry band. All sizes. Numbers from 1 to 300 on several colors of background. Price 3 cents each, \$2.50 per 100.

BOURNE MANUFACTURING CO.,
234 Howard St., Dept. W MELROSE, MASS.

Fowls Feed Themselves

Great saving of feed and labor. No waste. Fill it once in four days for fifty fowls. Fowls jump on step. Door swings in. 4 may feed at one time. Door locks automatically. Patent device prevents hooking out or wasting feed. Rat, rain and bird-proof. Saves work of everyday feeding. Saves feed. Made of galvanized iron. Satisfaction or your money back. Ask your dealer, or write us for descriptive circular.

ROCKFORD POULTRY SUPPLY COMPANY
Lock Box W-201, Rockford, Illinois

***** Patronize A. P. W. advertisers they are reliable Look up our guarantee on the first page. It protects you.**

S. C. Brown Leghorns

he best ever produced in both Pullet and Cockerel line.

STRAWBERRY HILL POULTRY YARDS,

Box 287,

RICHMOND, VA.

ORCHARD FARM REDS

Look up our complete winnings at Pittsburgh and Madison Square Garden and write at once for mating list.

ORCHARD FARM,

NOROTON HEIGHTS, CONN.

S. C. RHODE ISLAND REDS

My matings are the result of twenty years of scientific breeding. The last five years I have produced and sold exhibition specimens that have won in nearly every large show room in the United States. Send for free mating list.

GEO. L. BUELL,

Box W,

LORAIN, OHIO

A Wonderful Achievement With Columbian Wyandottes

In the two most remarkable classes of Columbian Wyandottes ever shown my birds practically made a clean sweep, viz: At New York State Fair and New York Palace Show. These winnings were:

Syracuse—2nd and 4th cock, 1st and 2nd cockerel, 1st, 2nd, 3rd, and 5th pullet, 1st and 2nd pen.

Palace—1st cockerel in a class of 23; 2nd, 3rd and 4th, pullet in a class of 25, 1st pen in a class of 8, 3rd hen in a class of 13.

I won the Wilburtha Championship Challenge Cup which represents the **Championship for the year** in this variety.

No such winnings were ever made by any other Columbian Wyandotte breeder. My birds are beyond comparison and I have a large selection in young stock to sell. Yards are mated. Mating list ready January 20th.

Chas. D. Cleveland,

Sunnybrook Farm,

Box W,

Eatontown, N. J.

PREMIER WHITE WYANDOTTES "The Kind You'll Eventually Buy"

At Guelph, December 1915 (The Madison Square Garden of Canada), 6000 entries, for the third year in succession won cup for best cockerel and pullet cup for best cock, hen, cockerel and pullet also cup for best display and again repeated their phenomenal win of 1914 by winning championship, viz.

BEST MALE BIRD IN THE SHOW ANY BREED

In addition to this we have since purchased from Joseph Russell, Toronto, Ont., his entire flock of White Wyandottes (500 birds) including all of his

NEW YORK AND BOSTON WINNERS

Lacking sufficient accommodation we are forced to sacrifice 200 of these birds at ridiculous prices and in order to do so immediately price is no object. If in need of White Wyandottes write us your wants. Our quality and prices will surprise even if you are looking for bargains.

OUR LIGHT BRAHMAS—At Guelph in the strongest class seen in years won 1-2-3 cock, 1-2-3-4 hen, 1-3 cockerel, 1-2-3 pullet and Sweepstakes Best Four Birds, any breed. While at Detroit, 1915, we won 1 cock, 1-2 hen, 1-2 cockerel, 1-2 pullet and "runner up" for best bird in the show.

SAUNDERS & WILLIAMS,

Box B,

INGERSOLL, ONTARIO, CANADA

SID SAUNDERS (Pres. Canadian White Wyandotte Club), Life Members A. P. A. DR. RALPH WILLIAMS



show, a White Orpington, bred, owned and exhibited by Aldrich Poultry Farm. She was a marvel in type and it goes without saying that she was snow white as such birds only are tolerated on the Aldrich Farm. In speaking of this specimen Mr. Aldrich said: "We have many more that will equal or excel her later on. She will compose part of our entry at the Chicago Coliseum Show." Aldrich Farms not only won champion pullet, but also won 1-3 cockerel and 1st pen. They exhibited only in these three classes. The same was true at Buffalo, N. Y., they won 6 firsts and 5 seconds, while they furnished the winners at one other large show the same week. In speaking of business conditions Mr. Aldrich said:

"Our business for November has been nine times that of the same month last year. Our catalogue will be ready for distribution the 15th of December and we regret very much, but it will be impossible for us to snow at Madison Square Garden this year, as orders are booked ahead so far that we will be forced to mate our pens earlier this year in order to supply the demand." In speaking of A. P. W. he remarked: "We consider A. P. W. one of the best advertising mediums in existence and can trace a large per cent of our sales direct to its subscribers."

The lover of nature could spend an hour of enjoyment at this show, for located in the center of the Coliseum was a large artificial pond containing four pair of rare Wood ducks. Surrounding this pond were large exhibition cages containing pheasants of practically every known variety, these being furnished by W. A. Koppy, a great lover of birds, and one who devotes his entire time studying their habits and giving the World the results of his experiments. One of the pleasing features of this exhibit was the paying of the premiums Wednesday, and according to reports the attendance was sufficient to pay all expenses and have a little left over for working capital for the next show, which will be held Thanksgiving week, 1916.

THE PROFITS IN POULTRY KEEPING

The above is the title of the big free 168 page poultry manual just issued by the Cyphers Incubator Co., Dept. 31, Buffalo, N. Y. We are fortunately in possession of a copy of this book and prize it highly for the large amount of valuable information it contains. In addition to this it describes one of the largest lines of incubators, brooders and poultry supplies on the market. In this particular the Cyphers line is too well known to need any description here. Cyphers incubators and Brooders are in successful use in nearly every country on the globe and the large number of repeat orders from old

customers testify to their reliability and satisfactory service. The rapid growth of the Cyphers Company testifies to the superior quality of their productions. This company started in a small way at Wayland, a small town in Western New York, but a rapidly growing demand for their product soon made it necessary that they remove to some point where better shipping facilities were available. Buffalo, was selected and a site adjacent to the lake front was secured on account of the advantages to be gained in securing lumber for manufacturing purposes by the ship load. A few years ago a disastrous fire visited this site making it necessary to select a new location and rebuild the mammoth factory. A site on the inner belt line of the New York Central was selected and one of the most modern manufacturing plants in the city was constructed. This plant is equipped with the most modern machinery and is said to be one of if not the largest plant in the world devoted to the manufacture of incubators, brooders and poultry supplies. This plant is fully described and illustrated in the above catalogue as is also the Cyphers poultry farm, one of the largest and most modern in the country. Better send for a copy of this book today. It is good enough to grace any library table.

***** A dime pays for a four months trial subscription to A. P. W. Why not send it to a friend?**

ALMENDINGER'S R. C. WHITE LEGHORNS
Have won at Buffalo, among other prizes 1st cockerel for the past four years in competition with the best birds in America. Enough said, if you want choice birds or eggs for hatching.
A. ALMENDINGER, 61 Inwood Place, Buffalo, N. Y.

VIERHELLERS'
SUNBURST STRAIN--BUFF PLYMOUTH ROCKS
Our young stock is ready to show. If you want to win at the early shows, we can furnish you the birds to win. Write us at once.
VIERHELLER BROS., 17 Sylvania Ave., PITTSBURGH, PA

McLEAN'S S. C. RHODE ISLAND REDS
NONPAREIL STRAIN
A vast number of show specimens now ready. Write me your needs.
S. G. McLEAN, SOUTH GLASTONBURY, CONN

WHITE CRESTED BLACK POLISH
BEST IN AMERICA
I have raised a fine flock of birds from my Madison Square and Boston prize winners. Splendid green black color. Fine large crests. Grand size. Free photographs. Write
WESLEY BALDWIN, East Park Place, NORWICH, N. Y

Longfield Rose Comb Reds
Are again victorious at the greatest of all Red shows winning 3 first Premiums at the December 1915, Chicago Coliseum Show. Being the only R. C. Red exhibitor to win more than 1 first premium. Our complete awards were 1st cock, 1st old pen, 1st and 5th young pen, 2nd and 4th hens, 2nd pullet silver cup for best display. Silver cup for 4 best cocks, silver cup for 4 best hens, silver cup for 4 best pullets and shape and color specials on male.
At this great show we have won the best display three successive years. A record, and in the past 5 seasons have won more than four times as many first premiums as any competitor. We have a fine lot of stock for sale, in both good breeding and exhibition birds. Free illustrated mating list ready.
LONGFIELD POULTRY FARMS, Box 339, BLUFFTON, IND.

Evergold Buff Dottes Elegant illustrated catalogue giving our methods of feeding and breeding Buff Wyandottes, only 20 cents. Price list and mating list free.
ROCKY RUN FARMS, Box 40, NORTHFIELD, OHIO
W. G. Marshall, Prop. Gerald Williams, Mgr. Poultry Dept.
Golden Rule Barred Rock Yards
Some choice cockerels at fair prices.
Eggs Both Matings \$3.00 per 15.
G. N. COLE, 263 Breckenridge St., BUFFALO, N. Y


COLORED LEG BANDS
Big Black Figures on White Background
All colors, all sizes for all fowls and pigeons. Birds identified without handling. Baby chick bands, 18 colors, not numbered. The best band in the world today. Samples and catalogue FREE. **A. P. SPILLER, Dept. B, Beverly, Mass**

While They Last
100 S. C. Buff Orpington cockerels \$3 to \$10 each. Fine breeders.
Write us today
OLD FORGE POULTRY FARM
SPRING GROVE, PA.
***** Send A. P. W. to a friend, on trial for four months. A dime will do it.**

PURITAN PARTRIDGE ROCKS
Prove their superior quality by winning at the great Cleveland Show, January 3-5, 1916:— 1-2-3 cock, 1-2-3-5 hen, 1-2-3-4-5 cockerel, 1-4-5 pullet, 1-2 pen. This grand winning on male birds proves conclusively where to purchase new males for either exhibition or breeding purposes.
HUNDREDS OF GRAND EXHIBITION AND BREEDING BIRDS
Cocks, hens, cockerels and Pullets fit to put into any breeding pen. Birds of standard weight, grand type, excellent color and fine head points. In fact birds of that high quality that have made Puritans famous throughout all America. Satisfaction guaranteed. Write for free 1916 Sales List.
BESUDEN BROS., Box 2-W, Evanston Station, CINCINNATI, OHIO

CURING COLDS AND ROUP BY A NEW METHOD

The Result of Three Years Experimental Work With the Vapor Method.
Its Advantage Over Other Methods of Treatment

BY DR. JOHN R. KOCH

COLDS and roup in poultry, their preventative and cure, has received the attention of the poultry world for many years and while some progress has been made toward overcoming the ravages of these diseases, nothing coming to my attention has proven a sure preventative, much less a cure. I took it upon myself, nearly three years ago, to experiment with the various drugs recommended for these diseases and the result of my investigations has convinced me beyond a doubt that I have discovered a remedy and method of application entirely new to poultrydom.—one which has proven a positive preventative and cure of all diseases peculiar to the nose, throat and lungs of poultry.

Before going into details of the Vapor method and my research, I wish to state that the greatest preventative of all diseases, plain to the mind of the average poultrymen, is cleanliness, since it is a well known fact that the nearer that we can arrive toward perfect sanitary conditions, the nearer we will come to wiping out the cause, and until we shall have attained sanitary perfection everywhere, the necessity of drugs is obvious, and until sanitary laws are enacted and enforced it is plain to be seen that the breeder will necessarily be compelled in some degree to resort to drugs as a second consideration to sanitation as a preventative and cure.

The fault that I and thousands of poultrymen have found in the ordinary present day methods of combating these diseases, are mainly the time consumed in administering the remedy, which usually is in the form of a tablet or powder, requiring the individual treatment of each infected bird. Secondly, the drawback of putting the drug in the drinking water or food, whereby the unaffected bird is in danger in eating or drinking from the same vessels as the diseased.

These faults are all overcome in what I have termed the Vapor System of treating these diseases. I know the merits of this method of Zenoleum Vapor after three years' thorough trial, having used it with complete success in the very worst forms of roup and colds in their most dangerous stages. I am satisfied that I have discovered a remedy and the manner of application that will supersede all former methods of treatment, at least in the treatment of my own flock. I have also noted the absence of lice on the birds and in the houses where the vapor was used.

The Vapor treatment should appeal to the poultrymen owing to its simplicity of application if for no other reason, although it combines the following merits:

1. That it is more economical than pills, tablets, powders and other forms of drugs.
2. That it is perfectly harmless.
3. That it makes the individual treatment of birds unnecessary.

4. That it benefits the well bird and cures the sick ones.

5. That it saves time and work and is positively effective.

I have been so thoroughly convinced of the practicability of the Vapor Method of treatment and have tested its merits covering a period of nearly three years before deciding to give same out for publication in order that my fellow poultrymen may benefit by its use.

In order to treat the fowls suspected of being infected it will be necessary that I describe the apparatus needed to produce the Vapor.

Have your tinner make a strong metal tube of galvanized iron, 8 inches high, 6 inches in diameter at the bottom and three inches in diameter at the top, or just large enough that an ordinary stamped bottom tin cup will fit snugly in the smaller end, first breaking off the handle of the cup.

About five or six holes 1 inch in diameter should be cut out about 1 inch from the bottom of the tube, approximately equal distance apart, these are to admit air to the lamp. Four one-half inch holes

should be cut out one and one-half inches from the top edge. Next a small incubator lamp should be provided, one with a small wick, as very little heat is required.

A. A. WHYLAND

Columbian Rock Specialist

CHATHAM, NEW YORK

FIRST PULLET in a class of 38 pullets at the New York State Fair

THE CRIMSON STRAIN

SINGLE COMB RHODE ISLAND REDS
CHINA HANCHETT, (Greenway), VERONA, N. Y.

LIGHT BRAHMAS

Champion Males and Females at both Boston and New York, 1915.

W. A. HENDRICKSON, 45 Houston Ave., Milton, Mass.

IF YOU ARE THE LEAST BIT INTERESTED IN

S. C. BUFF ORPINGTONS

THAT ARE MATED FROM HIGH EGG RECORDS YOU SHOULD WRITE US FOR OUR 1916 MATING LIST.

CHERRY LANE FARM CO.

O. Wilson, Mgr. Oak Hill, West Va.

BRUNIG BUTTERCUPS

ARE CHAMPIONS

My winnings at Chicago Coliseum Show, 1st cockerel, shape special, color special on male and 1st pen. Prove the superior quality of my stock. Write me for description. History and illustrations FREE.

Stock and Eggs For Sale.

W. C. BRUNIG, Box 403, ELKHART, IND.

RICHARDSON'S S. C. BUFF LEGHORNS BRED TO WIN AND LAY

Records Prove THAT THEY ARE DOING IT

Eggs for hatching or stock. ALSO BUFF ROCKS. I can please you. SQUARE AND HONEST DEALING WITH ALL MY MOTTO.

H. G. RICHARDSON,

ETRA, N. J.

NATIONAL CAPITAL WHITE INDIAN RUNNER DUCKS

THE WORLD'S GREATEST WINNERS, BEST LAYERS, HARDEST, AND MOST PROFITABLE FOWL

69 FIRST PRIZES, 21 SILVER CUPS, MEDALS, BADGES, GOLD AND CASH SPECIALS AT LEADING SHOWS

EGGS FOR HATCHING, FROM EIGHT CLASSIEST MATINGS, REASONABLE PRICES, SEND FOR CIRCULAR

NATIONAL CAPITAL WHITE RUNNER DUCK FARM—OFFICE 4205 8th St. WASHINGTON, D. C.

The UTILITY POULTRY HOUSE and YARD

On wheels, easily moved, dimensions 10 x 10 feet, accomodates 18 fowls, easily cleaned, convenient, economizes space. Space 15 x 30 feet will provide clean runs all season. Ideal winter house, conserves animal heat.

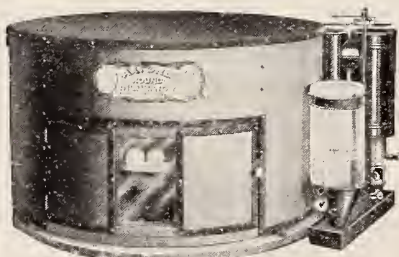
THE IDEAL HOUSE FOR CITY OR TOWN BACK YARD

It solves the poultry keeping problems for the city or town dweller making back yard poultry keeping a pleasure and insuring success. Investigate this house. Reduce the high cost of living by starting with a pen of fowls and a UTILITY HOUSE at once.

Positively the best colony house on the market regardless of price. Shipped knocked down F. O. B. express or freight for \$8.50. Agents wanted.

Protected and manufactured solely by

THE POULTRY EXCHANGE, R. D. 29, STAMFORD, CONN.



2 in one \$13.90 Incubator and Brooder

an imitation Spanish leather. Round, no cold corners. Will not warp or crack open. Write for catalogue.

AXFORD INCUBATOR CO., 735 E. 45th St., CHICAGO, ILL.

Axford Round Incubator

For forty years the Axford has stood the test and has a reputation second to none in artificial incubation. It is the original sand tray incubator now that supplies proper moisture to eggs while under incubation.

It has the most wonderful, simple and safe lamp ever attached to an incubator. Oil supply always in sight. You need never put out light to refill the lamp.

Every machine is perfect and will do all we claim for them. They are sanitary, light and easily cleaned. Will last a lifetime with good care. They are neatly upholstered with

ed; the metal vaporized tube is set over the lamp and the cup is filled about half full of Zenoleum and some protection in the form of a grate set over the whole in order that the vaporizer cannot be interfered with by the birds.

The Vaporizer is put into operation only at night after the fowls have gone to roost, and is set near the center of the room. The above procedure I have found most satisfactory in a pen 8 x 10 feet, containing 25 birds, the house being of the open front type, the front remaining open when the vaporizer is in use.

In order to determine the amount of Zenoleum necessary per bird, the square feet of floor space must be taken into consideration and according to my investigations, I find that one teaspoonful to four square foot of floor space is the best proportion. This applies to the open front style of house only. Where the vaporizer is used in a closed or semi-closed house, one half teaspoonful to every four square feet is sufficient. It is best that some opening should be provided in the front of a closed house to admit the proper circulation of fresh air. Only enough heat should be maintained in the vaporizer to create a thin vapor, and not by any means a dense smoke. The height of the flame can be best determined by experiment and close observation for an hour or so the first night.

A marked improvement in the birds is noted within forty-eight hours after the first treatment. I have never found it necessary to use the vaporizer more than three nights in a week's duration and never had to resort to over four treatments to effect an apparently complete cure in even obstinate cases of roup. In conclusion, I will say that I have never found any indications of the return of the disease after properly applying the above treatment, the total absence of that rousy odor, peculiar to this disease, and at the end of a week's treatment, the eyes and nose had resumed their natural clearness and the absence of rattle and heavy breathing, and being rewarded with the return of the song of the hens we like so much to hear.

Note.—Full instruction for this treatment can be obtained from the Zamer Disinfectant Company, 370 Lafayette Avenue, Detroit, Michigan.

BAKER'S SALES LIST

C. R. Baker, Abilene, Kansas, breeder of Buff Rocks, whose success at both the Panama-Pacific and at Madison Square Garden, makes him one of the foremost breeders of this beautiful variety, has issued a special sales list that every lover of Buff Rocks should secure. Baker's Buff Rocks have been line bred for years, a fact which easily accounts for their show room success. In this special sales list Mr. Baker has divided his surplus stock into five, eight, ten, fifteen and twenty dollars quality and gives a clear and concise description of just what the purchaser can expect at each price. Where more than one bird is purchased liberal reduction, in the prices, will be made, depending upon the number of birds purchased. If it is quality in Buff Rocks that you are after Mr. Baker has it and will treat you on the square should you decide to favor him with your order. He will appreciate it if you will mention A. P. W. when writing.

MARK YOUR CHICKS

The day of hit and miss methods in breeding poultry has passed and the wide-awake poultry raiser of today keeps a record of his matings and toe marks his chicks as soon as hatched. To properly mark the chicks a suitable marker or toe punch must be used. For

this purpose we know of no better punch than the one offered by T. W. Rogers, Lamont, Iowa, advertised in another column in this issue. This is a compact, well made and serviceable article that can be depended upon to do the work well and can be obtained at a figure so low that the poultry raiser working for success cannot afford to do without it. Full directions for use with a diagram of the various marks accompany each punch. Better secure one at once and put your breeding operations on a sound foundation. Just turn to the index and locate Mr. Rogers "ad," then write him for full particulars. He would undoubtedly be glad to have you act as his agent.

286 EGGS IN 365 DAYS

Underhill Farms, Box W, Fort Ann, N. Y., who have an announcement on page 287, this issue, have made a specialty of heavy lay-

ing S. C. White Leghorns for years and one female "Lady Snow" has made a trap-nest record of 286 eggs in one year. This is a grand record, but she is not the only high record hen at Underhill Farms as they have a pen mated that has an average record of 226 eggs per hen. This pen also contains four individuals with records of 230 eggs. They have a few of "Lady Snow's" cockerels for sale and also several from above pen. In addition to the above they have 20 trap-nested pens from which they are offering eggs for hatching and baby chicks. These twenty pens are made up of tested layers mated to males from high producing dams and a good opportunity to start a heavy laying flock awaits those who are in the market for hatching eggs or day old chicks. For complete information, also prices, of stock, young or old, mention A. P. W. and address Underhill Farms, Box W, Fort Ann, N. Y.

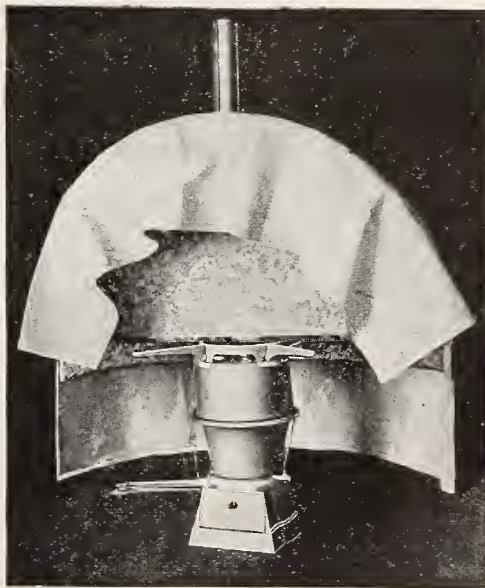
ENGER'S BARRED ROCK FARM

Have won more firsts, second and special prizes during the last three years than all our competitors combined at Cleveland, Ohio's Winter Show, and the Forest City Exposition, Cleveland's Summer Show. This great winning proves beyond all doubt they are OHIO'S FOREMOST STRAIN OF BARRED ROCKS. If its a prize winner you want, write us today. Prices reasonable. Send for descriptive booklet. Fifteen acres devoted to Barred Rocks.

GEORGE W. ENGER, Station W, BEDFORD, OHIO

The Good Old Hen Watches Over Her Chicks DAY AND NIGHT?

So does the Dandy Colony Brooder—the Mechanical Mother. Mrs. Biddy may accidentally crush a promising chick now and then, but the Little Dandy never does. Costs but little more to keep than the hen and takes care of about forty times as many chicks.



Raises every chick that is fit to be raised.

Built of cast iron to last a lifetime.

Burns coal or gas.

Stops the brooder losses. Increase your profits.

The right temperature, uniform at all times is what we guarantee. Besides controlling the fire in the brooder we control the surplus heat. The check valve is under the hover and when open draws the surplus heat up the stack. No chilling, no over heating, no crowding.

\$15.00 IS A SMALL PRICE

But the results you will get will be large. We are located so we can produce a brooder for this price and a good one too. Send for our folder and let us tell you why. Address Department 122.

We want hustling agents.

NORTHEASTERN MFG. COMPANY.

The Home of Better Brooders,

Keeseville, N. Y.

MADISON SQUARE GARDEN POULTRY SHOW

By Wm. C. Denny, Associate Editor

(Continued from page 263)

Blue Orpingtons	60
Dark Cornish	47
Speckled Sussex	67
Red Sussex	24
Blue Crown	16
Silver Spangled Hamburgs	48
Mottled Houdans	23
White Faverolles	33
Buff Faverolles	16
Buttercups	26
Pit Games	96
Lakenvelders	24

The return to the old dates proved more popular than the late February dates for last year's show and the management appreciating this, announced that next year's show would be held December 29, 1916 to January 3, 1917 inclusive.

Something About Exhibits and Exhibitors

The display of Barred Rocks was distinguished by the most remarkable display of a single variety ever made by one exhibitor. E. B. Thompson, Box 330, Amenia, N. Y., entered 20 cocks, 11 hens, 30 cockerels, 8 pullets and 5 pens. It was a very large exhibit as well as exceptional for its high quality. How many breeders of any variety are there that can put 20 cocks and 30 cockerels of Madison Square Garden quality into a single show? It was our privilege to inspect Mr. Thompson's exhibit and handle many of the specimens. There was a uniformity of type, color and finish and a close resemblance that was very noticeable. Judge Louis P. Graham who placed the awards after finishing his work referred to this family resemblance when he said, "I'll bet first and second cockerels are sons of the first cock". Later this remark was confirmed during our conversation with Mr. Thompson when he was speaking of the value of established blood lines in the production of exhibition poultry. He further stated that the first pullet this year was a daughter of the first pullet at last year's Madison Square Garden Show. Not only did the Ringlets on display resemble one and another in breed and variety characteristics, but their plumage had a peculiar silky texture that was not only pleasing to the eye but to the touch also. The twenty cock birds entered by Mr. Thompson had the Ringlet Strain resemblance. They were of the bold, sturdy style, having masculine heads, broad skulls, stout beaks and red eyes. Their shoulders also were broad and in addition possessed a length of back and carriage of tail that closely approaches the modern White Rock type. A singular incident is connected with Mr. Thompson's winnings on cocks. One of the first things that attracted the visitors attention on entering the show was the blue ribbon, first prize award on coop No. 1 and the red ribbon second prize awarded on coop No. 2. It is not often that first and second prizes on Barred Rocks at Madison Square Garden have gone to one man, and we do not know that it has ever happened that first and second prize in any variety has been placed on coop numbers one and two. First cock was a sturdy grand Rock, well set on legs with proper length of body and back, as well as depth, and he possessed the Ringlet fam-

ily resemblance which at a "fanning" at the Panama Pacific Poultry Show, Judge W. S. Russell said could almost be told at a glance. In this day when very narrow barring with straight bars in the fashion, first prize pen cockerel deserves special mention. If anything his barring was finer than we prefer, but it was well defined with a strong contrast between the dark and light bars and the strength of color carried through the undercolor to the skin in every section. First prize pullet was one of the poultrymen's so-called "dreams." In speaking of her, Judge J. H. Drevestadt said, "Mr. Thompson, that first prize pullet is the best you ever exhibited". The Thompson Barred Rock business is an institution that has been built to stay. Mr. Thompson has made it a life study. It was thirty-seven years ago since he bought his first Barred Rocks. During this time it has never been possible for any person to purchase Mr. Thompson's best stock, as it is not for sale at any price. Mr. Thompson says that he needs his best productions to improve Ringlets. Mr. Thompson is not the kind that is satisfied with what has been accomplished. In referring to the wonderful improvements that he has made in Ringlets. He is not the kind that my efforts or results. Had I been so I would never have made any progress". In congratulating Mr. Thompson on the splendid condition in which his birds were shown, he said, "Credit for that is entirely due to Valentine who has per-

sonally looked after the growing and developing of these chicks from the time they were hatched". Continuing he said, "This year Valentine continued to hand feed the birds two months longer than usual because of the bad weather conditions that prevailed during the late spring and early summer". It is this careful attention to detail that enabled

ABERNETHY'S HOUDANS

"The strain that wins." Why not get among the winners by buying some of my stock at present very low prices.

JAS. ABERNETHY, Box W, WEST PEMBROOKE, ME.

Engagements Booked Now For

Fall Pairs and Winter Poultry Shows *all classes.* Legalized Expert Poultry Judge.

LLOYD M. HALLENBECK, GREENDALE, N. Y. Originator of Buff Brahmas.

OYSTER SHELL

100 lbs. 50 cents, 500 lbs. or over 40 cents hundred. These shells are baked, ground and screened. Special prices in car lots, Samples on request.

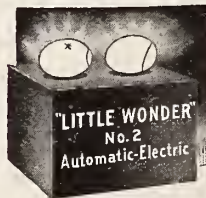
United Sales Company, Norfolk, Va. PRODUCE BLDG.

500 COLUMBIAN LEGHORNS

All brothers and sisters to New York. Boston, Baltimore, Providence winners. EGGS after March 1st, \$5.00 per 15.

PROF. JOHN EVANS Chestnut Grove Poultry Farm, Cranston, R. I.

INSTANTANEOUS! AUTOMATIC! I ELECTRIC (Patent Pending) The Most Powerful Egg Tester on the Market



All other testers are "tallow dips" in comparison! No other tester even approaches it in power, speed, safety or convenience. The very instant an egg is placed, the powerful Mazda-Tungsten lamp shoots ALL its light into and through it; not a ray of light is wasted; the egg gets it all. Equipped with dry batteries; no other current used. WIDE OPEN MONEY BACK GUARANTEE. LITTLE WONDER No. 1—Light, \$2.00 each prepaid. LITTLE WONDER No. 2—2 Lights (like cut) \$3.00 each prepaid. Send for descriptive circulars and testimonials, they will convince you! Here's one from the great Ancona breeder. It is just what I have been looking for, would not take ten times the price of it, if I could not get another H. Cecil Sheppard, Berea, Ohio; June 17, 1915.

Manufactured by J. B. Timerlake & Sons.

Station "W" JACKSON, MICH.



Hatheway's Golden Campines AGAIN VICTORIOUS

At the official Club Meet, Chicago Coliseum, the greatest of all Campine shows my birds win 1st and 2nd cockerel, 2nd pullet, 3rd cock, 3rd hen, shape special on male and color special on male.

WIN AT CHICAGO COLISEUM, THREE YEARS, 1913-14-15 The Golden Campines I own and have in my breeding yards have won 8 firsts, 3 seconds, 4 thirds, 2 fourths. A record unsurpassed in all Campine history. The first prize pullet, Crystal Palace, London, England, 1913, and my importation of the seven best birds raised in England this year gives me without a doubt the greatest line of Golden Campines in all America.

WRITE TODAY

For my price on grand winning show birds, breeding stock or eggs for hatching. Prices right. Quality the best.

E. P. HATHEWAY, M. D., P. W. Nertney Bldg., OTTAWA, ILL.

COBURN'S RED SUSSEX FARM

Great Victories at Two Sussex Club Shows Within 10 Months In competition with England and America's Best Birds

MADISON SQUARE GARDEN, N. Y., FEBRUARY 1915

RED SUSSEX—Championship male and female, 1st pen, 1st cock, 1st cockerel, 1st hen, 5th pullet on five entries. SPECKLED SUSSEX—Championship female, 1st hen, 1st pullet, 2nd pen on three entries.

COLISEUM, CHICAGO, 1915

RED SUSSEX—\$25.00 silver cup, best display, \$15.00 silver cup, best colored male, 1st old pen, 3rd young pen, 1-4 cock, 3-5 hen, 2-4 cockerel, 2-3 pullet. SPECKLED SUSSEX—1st young pen, 3-4 old pen, 3rd hen (no cocks shown), 4 cockerel, one entry. All winners from our own pens. We raised them. Write for our special prices and values on exhibition, breeding and utility stock. Mating list February 1st.

ADDRESS CHANGED FROM MARYSVILLE TO

COBURN'S RED SUSSEX FARM, Route 33, ST. CLAIRE, MICH. H. H. & E. M. COBURN, Owners, Electric Stop Maxwell, PHONE 668-F22

Thompsons, father and two sons, to put into this year's Madison Square Garden Show the finest exhibit of the variety that has ever been shown by a single exhibitor.

The first prize pen of White Rocks shown by Rancocas Poultry Farm, Box 610, Brown's Mills, N. J., were noteworthy for their splendid size and type. The male, a strong, big and symmetrical fellow had a neat low comb evenly serrated, a red eye and rich yellow beak and legs. The four females mated well and were shown in the pink of condition. Another Rancocas entry won a blue ribbon in the hen class, consisting of hens. In addition to White Rocks, S. C. White Leghorns are also bred at Rancocas Farms. In fact there are more White Leghorns at this farm than any other in the country. Last year the White Leghorn egg production exceeded 1,000,000 eggs. Reese V. Hicks and M. L. Chapman, who are in charge of the poultry department were at the New York Show and reported a satisfactory business season and that they would be well prepared for the hatching egg and baby chick trade.

F. W. C. Almy, Box 22, Tiverton Four Corners, R. I. breeder of Champion and Princess Strains of Single and Rose Comb Rhode Island Reds made a remarkable winning in these varieties, his entries being awarded all four firsts on females. This is probably the first time this record has been made at a Garden Show. His complete win on Single Combs being 1st hen and 1st pullet. On

Rose Combs 1st and 4th hen, 1st pullet, 2nd pen. He also won special for best shaped single comb female, special for best shaped and colored female in Rose Combs. Geo. W. Tracey, who judged the Single Combs said, "I would have awarded Mr. Almy's single comb pullet color special, but she was too red". Mr. Almy's first prize hen was an easy winner in a very strong class. She was rich even red, every section blending one with another, and had just the right amount of ticking in the hackle, while the black markings in the wing and tail were like those in the pullet. The eye was a rich red and she had a low five point comb. Slightly above standard weight, she stood well, legs being wide apart, her breast was broad and full and she had a broad back of the right length. First prize single comb pullet was in full bloom and shown exactly at the right time, was above standard weight, had good shape and surface color, was very even and a dark rich red. There was absolutely no contrast between the surface color of back and breast. Mr. Almy's second prize Rose Comb pen was headed with a very brilliant even colored cockerel. Had a good comb, very fine in type and well spread tail. The four pullets matched well in shape and color. Mr. Almy is an extensive breeder of Rhode Island Reds both combs. Very few breeders in the country produce as many Rhode Island Reds during a year as Mr. Almy. He has built up a large and profitable business in Reds to which he devotes his full time and attention.

With a large stock to select from he is always in position to fill orders for stock of either breeding or exhibition grade.

D. W. Young, Box E 13, Monroe, N. Y., White Leghorn specialist and breeder extraordinary, added another to his long list of triumphs at Madison Square Garden. When the "smoke of battle" had cleared away Mr. Young's entries had been awarded 1-2-3-5 cock, 1-3 hen, 1-2-3 cockerel, 2-4-5 pullet, 1-2 pen. That it requires a masters ability and touch to produce and prepare a team of birds of a popular variety like S. C. White Leghorns that can year after year land the "Lion's share" of prizes competed for, there can be no doubt and Mr. Young has been able to do it regardless of competition. It was Dan Young who produced the White Leghorn male with crescentic back and crescentic body that immediately became popular, fashionable if you please, because of the added style and elegance, and that became a fitting companion for the graceful female that had been developed from an earlier type. Mr. Young is another breeder who does not sell his winners. He keeps them all, every one and uses them in his breeding pens. He sells eggs for hatching, and will be pleased to send his mating list on request.

In a comparatively short space of time Anconas, particularly the single comb variety, have become popular. If you reader, doubt this statement look up the entries at your local show, and also scan the list of these at New York, Chicago, Boston and other leading exhibitions.



Rogers' National Blue Orpingtons

Yes! We were big winners on our Blue Orpingtons two years in succession at the

GREAT CHICAGO COLISEUM SHOW

In 1914 on four entries we won first and third hen, fifth pullet, third cockerel and at the same show this year December, 1915, we added to our winnings first and fourth cock, first, second and third hen, first old pen.

We have mated six pens having beautifully laced, sound blue color and true Orpington type from which we will sell eggs at \$10.00 and \$7.00 per setting.

BOOK YOUR ORDER AT ONCE. Remember there was not a breeder of Blue Orpingtons who was able to supply the demand in eggs, or stock last year. There will be a bigger demand this year. We still have a few good cocks, hens and cockerels for sale.

WHITE ORPINGTONS

I am offering real bargains in strictly high class show birds to reduce my flock. Must have more room for Blue Orpingtons to meet the increasing demand. My records both showing and selling for the past five years stand alone. I doubt if there is a breeder of White Orpingtons in the United States who can show more good type birds. Four pens containing many noted prize winners are all that we will have mated in Whites this year. Eggs, \$10.00 and \$5.00 per setting.

YOU RUN NO RISK. If I don't ship you better birds for the money than you can buy elsewhere, return them to me and I will pay express both ways. Where can you find a squarer, more satisfactory way of doing business? 75% fertility guaranteed on all eggs.

WRITE TODAY FOR FREE LITERATURE and price on my Orpingtons.

IDEAL FOR MARKET



Rogers Poultry Yards 1364 Herschell Ave. Cincinnati, O.

Their quickly won popularity has been largely due to their vitality and prolific laying qualities and to H. Cecil Sheppard, Box 2 W, Berea, Ohio. As for Mr. Sheppard, he is "the man who has made Anconas" so far as this can be said of one person. Anconas were far from the attractive variety they are today when Mr. Sheppard began breeding them. There was a diversity of types and a wide range of color markings. Now the Anconas have an individuality of their own. It is larger and heavier fowl than the Leghorn and instead of being black splashed with white, the greenish black plumage is broken with an even mottling of white tips that makes the variety most attractive. Mr. Sheppard made his large exhibit at New York and won handsomely as follows; S. C. Anconas 1st pen, 2-3 cock, 2-3-4 hen, 1-3 cockerel, 1-3-4-5 pullet. R. C. Anconas 1-2 pen, 1-2-3-4-5 cock, 1-2-4-5 hen, 1-2-4-5 cockerel, 1-2-4-5 pullet. One of the largest sales made during the Garden Show, was a pen of Anconas that brought \$500.00 and Mr. Sheppard is the man that sold it. Mr. Sheppard's handsome catalogue and mating list can be had for the asking.

As usual Bird Bros., Box 14, Myersdale, Pa., won the major portion of the prizes in one of their specialties, Partridge Rocks. Bird Bros., have the satisfaction of having produced a strain of Partridge Rocks that have been successful for them and their customers at the leading shows of the country. Their winnings in this variety were as follows; 1st and 2nd pen, 1-2-3-4-5 cocks, 1-4-5 hen, 3rd cockerel, 1-2-3-5 pullet. In Bronze Turkeys this firm made an even better win in a large class that was strictly high class from a quality standpoint as follows; 1-2-3-4 old tom, 1-2-3-4 hen, 1-2-4-5 young tom, 1-2-3-5 pullet. The color, size and stamina of Bird Bros., Bronze Turkeys has caused this strain to be in great demand wherever the great American bird is bred. They still have a large amount of stock for sale that they will dispose of at fair prices. Those who are about to start in Partridge Rocks or Bronze turkeys or are looking for new blood will do well to write for prices and description.

When the awards in Brown Leghorns had been made three of the five first prize ribbons were on the coops containing the Grove Hill Poultry Yards entries, Box 804, Waltham, Mass. Both owner Wm. Ellery Bright and Superintendent F. G. Cook were in attendance during show and expressed pleasure over their success. Their complete winnings were 1st pen, 1st cock, 2nd hen, 3-5 cockerel, 1st pullet. First pen was a grand grand collection of hens mated to a brilliant colored stylish cock. We were informed by Mr. Bright that one of the hens in this pen had a remarkable show record being first hen at Topeka, Kansas, and third prize at Boston, the year when Mr. Bright also won 1-2 hen, she was also shown in first pen at Boston, another year and this year was the third year she was in a first prize New York pen. Mr. Bright's first prize pullet was in a cage in the corner of the main center aisle and was one of the attractions of the show. We were discussing her type when Artist Schilling came along and told Mr. Bright that this pullet was the best shaped Brown Leghorn female

he had seen. In talking business Superintendent Cook said that the past season had been "Grove Hills best year" and we are looking forward to an even better trade both in Brown Leghorns and Barred Rocks.

One of the quality exhibits and attractions of the show was the grand display of S. C. Black Minorcas. Those who have kept track of such things, advised us that it was the largest display of Black Minorcas ever shown at Madison Square Garden. Certain it was the quality ranked very high. The large exhibit was partly due to the fact that the American Black Minorca Club held its annual meeting during the show and offered over \$300.00 in specials. In the strong existing competition Frank McGrann, Black Minorca Specialist, Lancaster, Pa., won as follows: 1-2-3-5 pens, 2-3-5 cock, 1-2-3-5 hen, 1-2-3 cockerel, 1-3-5 pullet. Mr. McGrann also won a long list of specials including \$135.00 in cash. As illustrating the keen competition and showing what little things decided the awards it might be mentioned that Mr. McGrann's third prize cock, a wonder in type with a wealth of color was set back because one of his wattles had been slightly damaged against the wire in the feeding yard, otherwise J. H. Minchell who judged the class would have been in a quandry to have decided the honors between him and the two birds that were placed ahead of him. This male was awarded special for best colored male. Mr. McGrann's exhibit was in charge of Supt. Hiram Demmy, who has been with Mr. Grann for several years. Previous to being associated with Mr. McGrann, Mr. Demmy was a successful breeder of Black Hamburgs. Mr. McGrann gave us a copy of his new catalogue one of the finest illustrated and printed catalogues of the season. Every person interested in Black Minorcas should send for a copy.

I. W. Bean, 324 Pond St., South Braintree, Mass., was a Rhode Island Red exhibitor that was well pleased after the awards were placed. Mr. Bean made nearly a clean sweep in R. C. Rhode Island Red cocks winning 1-2-3-5 and also won 3rd hen 1st cockerel, 2nd pullet and 1st pen. This strong win also won for Mr. Bean the coveted special for best display. In single combs, Mr. Bean did not fare so well, but made a strong win considering the size and quality of the single comb classes. The quality may be better understood if we were correctly informed winning cock birds at Chicago, were not placed at the Garden. Mr. Bean's awards were 2nd pen, 5th cock, 3rd cockerel, 5th pullet. Mr. Bean is credited with having done a great deal to improve the color of Rhode Island Reds. Certain it is that the birds of his breeding are much sought after by those who are looking to improve the shade and tone. He has some choice breeding stock to dispose of and breeders who are not satisfied with their stock on hand should write to him.

M. S. Barker, Thornton, Ind., Black Langshan Specialist entered 23 birds, 22 of which were under the ribbons. Mr. Barker's entries won all firsts excepting 1st pullet where he won 2-4 with two entries made in that class. His birds possess splendid type, very good color and there is a family likeness throughout that indicates careful breeding. There

For High Quality **BARRED ROCKS** at Moderate Prices
Winners at Baltimore and Richmond
My birds will be mated January 1st and after January 10th I will have eggs for hatching
Write C. H. BOSCHEN, ASHLAND, VA

Monarch Strain Mammoth Bronze Turkeys
Rouen Ducks
A few cockerels and pullets for sale in Barred Rocks and Buff Leghorns. Write your wantsto
"THE MAPLES", A. G. Barlow & Son, MEDINA, N. Y.

CHICKS from leading laying and winning strains.
BROODER STOVES, coal burning, best on the market, price \$15.00.

CLEVELAND HATCHERY
7918 Madison Ave., Cleveland, Ohio.

USE DIAMOND EGG BOXES
for shipping your fancy eggs. Cheapest because safest. Thousands of testimonials. Sample 25c, dozen \$1.50. Write me.

DIAMOND BOX MFG. CO., N. 2nd St., Minneapolis, Minn.

Bennett's Andalusians and S. C. Reds
At the New York State Fair on 2 entries won 3rd old and 4th young pen Blue Andalusians. Some choice birds for sale also 40 S. C. Red Hens at a bargain. Leon A. Bennett, Euclid, N. Y.

HOT BED SASH
80c
CYPRESS, well made with cross bar, blind tenons, white leaded in joints, Glass, \$1.50 per Box.
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300 EGG INCUBATOR Cost Only \$4.00

Endorsed and Used by Leading Poultry Experts.
Governed by nature's true sectional system. Without lamps or regulators. Sold 67,000 the past season. (150,000 baby chicks for sale). Agents wanted. Catalogue free.
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4-in-1 Cornerless Poultry Houses
Portable, durable, sanitary. Ideal for Brooders. No corners for chicks to crowd into and suffocate. Light and sunny. Open-air front; removable, adjustable floor. Convertible into Breeding Pen, Brooder, Colony or Laying House. Features double available floor space. Cheaper and better than home built houses. Same materials as our famous silos. Cash or easy payments. Special introductory offer to Agents. Literature and prices on request. Address Box W. Unadilla Silo Co., Unadilla, N. Y.



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There Will Be No Bowel Trouble When Feeding

Blatchford's Milk Mash

Raise 100% Hatch in Record Time

Don't take chick chances. After they are five weeks old, add 10% fresh corn-meal to the mash and you have the best growing food made, and you make it.

Ask us how to get 32% increased weight on your Spring Chickens in 12 days. It's a simple matter.

For sale at all dealers or

Blatchford Calf Meal Factory
Waukegan Illinois

was not a coarse combed bird in the lot and while all were of good size, there was no approach to coarseness. Furthermore we did not see a light colored eye in any bird in the exhibit. The first prize cock was nearly as high colored as Mr. Barker's winning hen. Last year Mr. Barker made only one entry at the Garden and won 1st pen. This year the same male and four females won 2nd to Mr. Barker's other entry in the pen class. It was the 7th year in succession that his entries won 1st pen at either the Madison Square Garden or the Chicago Coliseum Show. His mating list may be had on request.

Dr. N. W. Sanborn, of Holden, Mass., who breeds Buff Wyandottes exclusively made but one entry and in a class of six won 3rd pen, with four pullets that were well matched in type and color. At the head of this pen Dr. Sanborn had a very stylish rich even colored cockerel. This bird was absolutely solid buff in wing and tail. Had a neat head, the comb being small, low and fitted close to the skull. He was sired by the cockerel at the head of Dr. Sanborn's first Boston, 1915 pen. During his 21 years of experience in breeding Buff Wyandottes, Dr. Sanborn has raised many high class specimens but it is safe to say that he has never produced a male or female that has been equal of this bird. Dr. Sanborn invited by a number of the Agricultural Colleges to lecture on poultry and has done considerable work in this line. This year he is lecturing at the

Delaware and Massachusetts Agricultural Colleges.

Morton & Gregory, Box 124, Albany, N. Y., breeders of Black and Mottled Javas won as follows: Black Javas, 1st hen, 1st pullet, Mottled Javas, 1st cock, 3rd hen 1st pullet. Seth W. Morton, who is Secretary of the American Java Association has done a great deal for this grand old variety in which a renewed interest is now being taken. Not many would expect that this one of the first of the established American breeds, was in great demand, but Mr. Morton told us that he did not know of a single breeder who had any surplus stock for sale. Mr. Morton will have a limit number of hatching eggs to sell.

L. E. Merihew, of Marathon, N. Y., Buff Leghorn Specialist was an eastern breeder courageous enough to send an entry three thousand miles across the country to the Panama-Pacific Exposition. He won there five regular awards on seven entries being the only exhibitor in the Buff Leghorn class to win two awards on cockerels, and two awards on pullets. While the Panama-Pacific show was in progress, Mr. Merihew was an exhibitor at the Buffalo Show where his birds won handsomely. At Madison Square Garden in a very strong class Mr. Merihew won, besides regular awards, special for best shaped male and special for best shaped female. A year ago he won special for best shaped male and special for best shaped and best colored female. The male that won shape special a year ago was the one that Judge

H. P. Schwab awarded shape special at this year's exhibition. Here is another breeder who reported a very satisfactory and increased business during the past year. Mr. Merihew advised us that his sales had increased each year and that he is shipping stock and eggs to all parts of the country. He makes a specialty of the egg trade and in addition to special matings is quoting very reasonable prices on flock matings. For efferings, look up his ad in this issue.

W. H. Saart, owner of Mirimichi Poultry Farm, Foxboro, Mass., who holds the record for being the exhibitor who sent entries the longest distance to the Panama-Pacific Poultry Show. He won at the Garden in White Rocks 3rd pen, 2nd pullet, and 5th cockerel. Mr. Saart did not show White Rocks at San Francisco, but in S. C. Reds his entries won 1st cock, 7th hen, 1st and 2nd pullets and 3rd pen. He reported a goodly amount of choice breeding stock of White Rocks, S. C. and R. C. Reds for sale. He has issued a new circular describing his matings and prices for both baby chicks and hatching eggs. Mr. Saart is straightforward and reliable. He can be depended upon to do as he agrees.

The greatly coveted special for best display of S. C. Rhode Island Reds was won by B. H. Scranton, Box, W, Rising Sun, Ind. Mr. Scranton's entries were also awarded the much sought for 1st cockerel and 1st pen prizes, as well as special for best colored male and best S. C. Rhode Island Red any age. Though not fully developed Mr. Scranton's win-

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The Seal is our own invention.

Your own monogram can be put in center. Sample cartons sent free to breeders.



Your printing on box for 50 cents for 1000.

We claim to make the best box on the market and we send them from coast to coast.

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ning cockerel had a good sized frame and excellent type, having a long straight back, a well rounded breast together with a medium sized comb that was fine in texture. He was both brilliant and even in color, the back, breast, wing bows and body blending perfectly. His tail was a rich green black and undercolor was very rich. The females in the first prize pen matched well, hackles blending well with back and breast. They were very even in color without any objectionable shafting. Three of the four pullets were full sisters and it would have been almost impossible to tell them apart so closely did they resemble one another. The male at the head had a good type, a broad, well spread tail, legs that were set well apart. His undercolor was remarkable, quills were a rich red to the skin even in the neck. Had good wing markings and handled well. Mr. Scranton received a hearty welcome from eastern breeders of Reds and was roundly congratulated on his success in winning so handsomely. He has some choice stock for sale and is offering eggs from selected matings. His egg circular can be had on request.

There was "quality to burn" in Buff Orpingtons, in fact Len. H. Rawnsley who placed the awards reported it as one of the very strongest quality classes shown to date. The classes were large and competition very keen. However, it remained for two A. P. W. advertisers, Owen Farms, Maurice F. Delano, Prop. 115 William St., Vineyard Haven, Mass., and Sunswick Poultry Farm, Rufus Delafield, Prop. South Plainfield, N. J., to carry off the honors. Mr. Delano's entries winning three of the five firsts and Mr. Delafield's the other two.

Mr. Delano's win included two regular awards in each class excepting pullet, as follows: 1-4 pen, 2-4 cock, 1-5 hen, 2-4 cockerel, 1st pullet. It was not a new thing for Owen Farms Buff Orpington entries to win handsomely at the Garden as this is one of America's pioneer strains of the variety and it has been the exception when they have failed to exhibit as well as win handsomely. Breeders of the Buff variety who did not have the opportunity to see Mr. Delano's first prize pen certainly missed a rare treat, for seldom has it been that as fine a collection of any variety of Buff fowl competed for show room honors. Mr. Delano and his poultry superintendent F. H. Davey, were at the show throughout the week.

Mr. Delano has issued a new and interesting mating list that he will be pleased to send to any reader of A. P. W.

Mr. Delafield is another breeder who has been in the Orpington business a long while. Formerly he kept the three single comb varieties, but disposed of the White and Blacks several years ago to devote his entire attention to Buffs. Mr. Delafield's win of 1-5 cock, 1st cockerel and 2nd pen at the Garden, topped off a remarkable record made this last show season. A complete list of these winnings and his mating list can be obtained for the asking.

In Black Orpingtons, Foxhurst Farm, R. N. Barnum, Prop. Lime Rock, Conn., won every prize competed for including all firsts and seconds. The superlative quality of Barnum's entries and the matchless condition in which they are exhibited is a tribute to him and his poultry

superintendent, C. H. Hubbard. Year after year, Mr. Barnum produces his full share of the highest quality of Black Orpingtons bred by any one. In his specialty he has no superior in America, or elsewhere. His mating list may be obtained on request.

One of the two entries made by Aldrich Poultry Farm, 4042 North High St., Columbus, Ohio, landed first honors in a class of seventeen cockerels in their specialty S. C. White Orpingtons. This bird won first in a class of twenty-seven at the meeting of the American White Orpington club held in connection with the Chicago Coliseum Show, December, 1915. Mr. O. W. Aldrich, senior member of the firm was in attendance all week and reported that they still had choice stock for sale and that they were booking orders for the spring, egg trade. A. P. W. readers should send for their catalogue and mating list.

Among the largest as well as the most successful exhibitors should be included Wilburtha Poultry Farms, Box W, Trenton Junction, N. J., breeders of Columbian Wyandottes, Columbian Rocks, S. C. Buff and S. C. White Leghorns. On Columbian Wyandottes this concern's entries won 1st cock, 1-2 hen, 5th cockerel, 3 pullet and 1st pen. In the Columbian Rock class on nine entries they won spec-

ial for the best display, 1st pen, 3-4 cock, 3 hen, 1-3 cockerel, 2-5 pullet. Their entries in the S. C. Buff Leghorn class were likewise successful winning 2nd pen 2-5 cock, 3rd hen. At the New York Palace and the Buffalo Shows, their entries were also very successful. Owner C. J. Fiske and his poultry superintendent Geo. J. Kerr, have every reason to feel well satisfied with their success. Their catalogue and mating list can be had for the asking.

We were pleased to make the acquaintance of Jas. H. Vincent, Hazelton, Pa., breeder and exhibitor of Buff Rocks, and S. C. Black Minorcas. Mr. Vincent did not exhibit the later, but made a splendid win the Buff Rocks landing two blue ribbons and other awards as follows: 1st pen, 4-5 cock, 1st hen, 2-3-5 cockerel, 2nd pullet. Mr. Vincent also was successful with entries made at the Palace and Philadelphia Shows, earlier this season. He will be pleased to send a list of his matings to persons who are interested in his varieties.

J. F. Phillips, 140 Merrimac St., Buffalo, N. Y., Partridge Rock Specialist, made his New York entry, a hen, a cockerel and two pullets and won 3rd hen and 4th pullet. He was satisfied with results. Mr. Phillips has some young stock for sale and has some choice mat-

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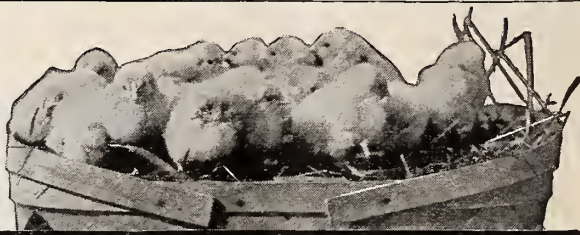
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ings from which he will sell eggs for hatching.

Dr. E. K. Conrad, Hackensack, N. J., Sussex Specialist won 2-4 cock, 4th hen, 2nd cockerel and 4th pen in Speckled Sussex. Dr. Conrad's second cockerel was a choice specimen and gave promise of developing into a splendid cock bird. He should prove a valuable breeder. Dr. Conrad offers eggs from all three varieties of Sussex, the Speckled, Red and Light.

Harold Tompkins, made four entries in the R. C. Red cockerel class and won 2-3-5. He also was placed 5th hen, 5th pullet and 3rd pen. His second cockerel was very rich in color, had a splendid black tail, plus grand qualities in type and style. Mr. Tompkins advised us that he has plenty of stock for sale and was well prepared for the egg trade. His mating list containing description of his breeding yards for this season can be had on request. Address Harold Tompkins, Box W, Concord, Mass.

Jas. H. Taylor, Woodstock Ill., specialty breeder of Columbian Plymouth Rocks won 1st pullet, 5th hen. Mr. Taylor's winning pullet was exceptionally well marked possessing strong black markings and very good clear white surface color. Mr. Taylor is another breeder who shipped birds to the Panama-Pacific Exposition and did well. His entries winning four firsts and one second in the open classes. Mr. Taylor's birds were strong in hackle, wing and tail markings. He has some surplus stock to sell.

Harvey C. Wood, 340 Main St., Bound Brook, N. J., specialty breeder of Light Brahmas won 2nd pen, 3rd cock, 4th hen, 2nd cockerel, 5th pullet in a strong class. Mr. Wood advised us that the demand for Brahmas was tremendous. He mentioned that he was absent from home for nine days, attending the club meetings of the American Light Brahma Club at the Chicago Show, and on his return found 172 inquiries for stock and eggs. It would appear that the Light Brahma has again found itself and that great interest is being taken in it by poultry breeders. Mr. Wood will send Light Brahma Club literature to any reader who asks for it.

C. R. Baker, Abilene, Kansas, specialty breeder of Buff Rocks shipped four birds and won 1st pullet, 4th cockerel, 5th hen. Mr. Baker's winning pullet in addition to being splendid in type was very even in color and had a solid buff wing and a very nearly solid buff tail. Mr. Baker's exhibit showed good type and a family resemblance. While the Baker strain has been consistent winners at the leading shows of the central west and south west, it was the first time that he has ever exhibited at Madison Square Garden and taking into consideration the long distance his birds were shipped, his showing was good indeed. In the report of the Panama-Pacific Show reference was made to Mr. Baker's winning. This was with a team of entirely different birds.

C. F. Rankin, of Schenley Heights Poultry Farm, Pittsburgh, Pa., Rhode Island Red Specialist, in Single Combs won 3rd cock, 2nd hen. In Rose Combs 4th cock, 2nd hen, the only classes in which entries were made. Mr. Rankin's second prize Rose Comb hen was remarkable for her color, being even in surface and of brilliant shade free from shafting,

with strong wing markings and black tail. She was not in as good condition as the winner.

R. A. Rowan, of Los Angeles, Calif., who is perhaps the most extensive breeder of White Faced Black Spanish in the world, was as usual an exhibitor at the Garden and as usual won the bulk of the awards, winning every first, second and third prize in the single classes. The White Faced Black Spanish are one of the oldest Standard varieties of poultry and are famed as prolific layers of large white eggs.

E. D. Bird, Greenwich, Conn., Secretary of the Blue Andalusian Club of America, won five regular awards on six entries in Blue Andalusians. His awards included second pen, 2nd cock, 5th hen, 5th cockerel. Competition in the Blue Andalusian class at New York, was decidedly strong, most of the leading breeders of the country being represented with entries.

D. S. Buxton, Bellows Falls, Vt., made a small entry in the Partridge Rock class. We handled his birds and found them good in shape and color. Mr. Buxton has been specializing in Partridge Rocks and has exhibited them successfully at New

England shows, also the New York State Fair. He is Secretary of the Bellows Falls Poultry Association and is doing his full share for the benefit of the Standard Poultry Industry.

Lester Tompkins, Concord, Mass., did not enter for competition but exhibited

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Winnings, Boston Show, 1916

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PITTSFIELD POULTRY FARMS CO.,

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a display pen containing his wonderful first prize S. C. Red pen at New York Palace Show, December, 1915. As at the early New York Show, the cockerel at the head of this pen was again the center of attraction for Rhode Island Red breeders. It is seldom that so good a male of any variety is shown. Certain it is no better Red male has ever been exhibited, according to the opinion of Rhode Island Red experts.

It has been several years since so many excellent Dark Brahmas have been exhibited. Perhaps the revival of interest that has taken place in the Light Brahmas is responsible for the new interest now being taken in the Dark variety. In the splendid exhibit, W. H. Besuden, Box 13 R, Evanston Sta., Cincinnati, Ohio, was very successful winning, 1-3 cockerel, 1-2 pullet, 4-5 hen and 2nd pen, an award on every entry. We were rather surprised to be informed by Mr. Besuden that he had 200 head of Dark Brahmas as we did not know that one breeder had as large a number of this variety. He is well prepared to handle business both in stock and hatching eggs.

S. H. Harter, Nescopeck, Pa., breeder and exhibitor of Buff Rocks was a visitor to the show. It was the first time in several years that Mr. Harter has not exhibited. Said he, "I have never been so well prepared to fill orders as this year not only in young stock, but old birds as well and I am quoting reasonable prices. Anyone who wants to buy Buff Rocks is making a mistake that he does not let me know their requirements. I am going to be well prepared for the egg trade with the best lot of breeding stock I have ever owned. Will sell eggs at \$5.00 and \$10.00 per setting.

Dr. W. A. Low, Dark Cornish Specialist, Catonsville, Md., made a small entry and won 3rd cock, 2nd hen, on birds that he had bred and raised himself. As many of the entries in the class and a number of the winners were imported birds. Dr. Low felt well pleased over the awards. He was especially interested in a cockerel that he had entered, a youngster barely six months old, that gave promise of developing into a grand cock bird. Dr. Low is prepared to accept a limited amount of egg orders and is also in a position to fill orders with some very choice stock.

Mountsville Farms, Mountville, Va., C. C. Manners, Prop., entered four White Cornish and won 1st cock, 1st hen, 3rd cockerel, 1st pullet, a regular prize on every entry. This farm has consistently won at a number of the seasons best shows and have established a show room record that in this variety is unequalled by any other breeder. Mr. Manners reported a very heavy demand for White Cornish, which he said were extensively used for crossing purposes by those who desire a high class table fowl, both for home consumption as well as market trade.

The well filled classes of Blue Orpingtons that are brought out at each Garden Show, indicate a healthy interest in this very handsome variety. Among the successful exhibitors of this variety at New York, was E. B. Rogers, 1360 Herschell Ave., Cincinnati, Ohio, who won 2-3 hen, 4th pen. Every specimen in Mr. Rogers' exhibit had grand Orpington type and beautiful color, being of the correct

shade of blue, with every feather well laced. Mr. Rogers also breeds S. C. White Orpingtons. He has some grand stock of both Blue and Whites for sale. See his announcement in this issue.

T. S. Hewke, Middletown, N. Y., Buff Wyandotte Specialist, made nearly a clean sweep in this variety winning 1st and 2nd cock, 1st and 3rd hen, 1-3-4 cockerel, 1st and 3rd pullet, 2nd pen on ten entries. Mr. Hewke is about sold out of stock, but will be well prepared for the egg trade with a large number of selected matings.

Three of the five regular prizes awarded on Silver Campine, including first and second were won by the entries of S. V. R. Martling, Prop. Martling Henery, Box 186, Ridgefield, N. J. His complete win was 1-2-4 pen; 2-3-5 cock; 5th hen; 1-2-3-5 cockerel; 2nd pullet and special for best display. In Golden Campines Mr. Martling made only one entry and won 1st cock. Mr. Martling is one of the breeders who saw a future for the Campine, soon after their introduction from Europe. He had faith in them and determined to build up a strain of his own. When he started he secured the best stock obtainable and through selection and careful and systematic breeding has produced a line of fowls that are wonderful for their type and color. A. P. W. readers probably recall the splendid illustration of Mr. Martling's first pen at Syracuse that appeared as a frontispiece in the December issue. In addition to improving shape and color in Campines, Mr. Mart-

ling has also improved combs, the birds exhibited by him being especially good in this particular. Mr. Martling is well equipped with a modern plant and splendid stock with which to do business. His prices are right and intending purchas-

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Have won continuously during the past eighteen years at the leading shows and in the largest classes ever shown. Have won best display at three National Club Meetings at Cleveland, Ohio in 1902, at Madison Square Garden in 1903, at Toledo, Ohio in 1913, in the largest and best classes of Buff Wyandottes ever shown. My small line is the strongest you can get anywhere and my males were persistent winners in large classes last season for my customers. Have some excellent males and females for sale. Satisfaction guaranteed or money promptly returned provided stock is returned to me within one week.

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Can supply high-class show specimens at reasonable prices. Breeding pens specially selected for customers. Many big winners for sale, bred from and related to our winners at all leading shows. Cock 1913, 2nd prize Royal of all England, also 1st and two specials. Waterford cock 1913, winner of six firsts, three seconds, also cockerel 3rd Royal 1914 and 2nd Liverpool and special, all for sale. Numerous others also hens and pullets. Satisfaction guaranteed. Also high-class utility stock, Table poultry a specialty.

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ers of stock or eggs of either Silver or Golden Campines can send their orders to him with the assurance they will have prompt and careful attention.

Rawnsley-Shields Poultry Farm, Dept. 6, Station B., Columbus, Ohio, made a splendid record with one of their specialties, the Speckled Sussex, winning 1-3 cock, 1-2 hen, 1-3 cockerel, 2-3 pullet, 1-2 pen. Both Messrs. Rawnsley and Shields were at the New York Show and reported that they were about sold out of both Speckled Sussex and Buff Orpingtons, but that they would be in a position to fill egg orders from grand matings. Len Rawnsley of the firm judged the Buff and Black Orpingtons at New York as he did a year ago and was highly complimented by the exhibitors of these varieties for his excellent work.

Elias C. Vail, of Verbank, N. Y., made seven entries in S. C. Anconas and won 1st hen, 2nd cockerel, 2nd pullet, 5th cock, 2-5 pen. Mr. Vail's winning hen was said by Ancona breeders and judges to be one of the best Ancona females ever shown at the Garden.

W. O. Jennings, Box A, Buffalo, N. Y., specialty breeder of Blue Andalusians, won 1st cock, 3rd hen and 4th pullet. Mr. Jennings' winning cock bird was one of the best of the variety that has been shown. He was a large bird, good type, and had a well laced breast. Mr. Jennings is President of the Blue Andalusian Club of America and while he does not breed a large amount of stock, he manages to produce a number of high class birds each season.

S. A. Howard, Granville, N. Y., breeder of White Houdans and Buff Wyandottes, sent a single entry, a White Houdan cockerel, and won 1st. This cockerel is a son of the first prize cockerel at last year's show, and, if anything, was better than his sire. Mr. Howard informed us that there was a good demand for White Houdans and that he also had a good sale in Buff Wyandottes. He has some surplus stock of both varieties to dispose of and is booking orders for the egg trade.

Dictograph Farm, K. M. Turner, Proprietor, West Nyack, N. Y., won about everything in sight, that he competed for in White Faverolles, including all five firsts. Mr. Turner is one of the breeders who is very enthusiastic over the White Faverolle as a utility fowl and has done much to place their merits before the poultrymen of the American continent.

D. Lincoln Orr, Orr's Mills, N. Y., also made a good winning in White Faverolles, including 2nd pen, 2-4 cock, 3-5 hen, 2-5 cockerel, 2-4 pullet. Mr. Orr says that he has been unable to keep up with the demand for this variety, either stock or eggs. Like Mr. Turner of Dictograph Farm, he has done much to advertise the good qualities of this variety.

M. R. Jacobus, Box 3-W, Ridgefield, N. J., Campine specialist, made a strong winning in these classes as follows: Silver Campines, 1st cock, 1-2 hen; 1-4-5 pullet, 3rd pen; Golden Campines, 2nd cock, 1-2-4 hen, 2-3, cockerel, 1-2-3 pullet, 1st pen. Mr. Jacobus reported a good demand for Campines, particularly the Silver variety, which, he stated, were pleasing everybody as prolific layers, as well as for the size of their eggs. Through plenty of hard work and a li-

beral expenditure of money Mr. Jacobus has done much for the Campines. His business policy is "a satisfied customer or no sale" insures those who send to him for stock or eggs a square deal, as he is thoroughly reliable.

Vierheller Bros., 17 Sylvania Ave., Pittsburgh, Pa., Buff Rock specialists, won best display, 1st cock, 2nd and 3rd hen, 1st cockerel, 3rd and 4th pullet and 2nd and 3rd pen. Vierheller's "Sunburst" strain is well known to A. P. W. readers as having been consistent winners at the country's leading shows, east and west. Mr. Louis Vierheller was at the show and stated that he would be well prepared for the season's egg trade with a splendid list of matings.

Williams Brothers, Fullerton, Calif., sent their usual exhibit of high class S. C. Brown Leghorns and landed a regular award with every entry, excepting one. Their complete winnings were 1-4 hen, 2-3-4-5 cock, 2nd cockerel, 4-5 pullet. Three thousand miles is a long way to ship an exhibit and have them compete in the strong competition that is always found at a Garden Show. However, Williams Brothers, have had the courage to do it for several years and have never yet failed to win their share of the prizes. As a result of their winnings in the splendid quality they have exhibited, their strain has an establish-

Silver and Golden Campines
Black Langshans White Faverolles
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Cocks and Cockerels
Cocks used in our breeding pens. Cockerels great big husky fellows from our Genesee strain of great layers. Reduced prices to move them quickly. Satisfaction always.
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COLUMBIAN WYANDOTTES

Cockerels and pullets bred from trap nested stock with records up to 241 eggs per year. Pens of above mentioned stock at \$20.00 while they last. Order direct from this ad. First class breeders at reasonable prices. Also exhibition males and females to win at any show. State exact wants, also strength of competition at last year's show and I will quote prices. I have an unsurpassed show record in this variety for the past ten years.

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are now in the Standard, after enthusiastic support from such great judges as *Drevenstedt, Rigg, Denny, Platt and Shove*. Their utility qualities are no less wonderful than their beauty. They are prolific layers of the largest white eggs, the table fowl of unique and cardinal merit, a combination not heretofore found in old breeds or new. Learn about them by writing to

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S L Allen & Co Box 1202J Philadelphia

ed record of excellence that extends throughout the continent and has brought them trade in both orders for eggs and stock, from practically every state in the Union as well as foreign countries. Mr. J. C. Williams and his poultry Superintendent C. B. Brown were at the show all week.

W. H. Manning and W. M. Anderson Prop. and Supt. of Turtle Point Farm, Saratoga Springs, N. Y., were in personal attendance looking after their exhibits in the S. C. Black Leghorn, Silver Leghorn and R. C. White Leghorn classes. In Black Leghorns they won 1-2 cock, 1-3 hen, 1-2-3 cockerel, 2-3 pullet, 1st pen. In Silver Leghorns, they were awarded 1st cock, 1-3 hen, 2nd pullet. In R. C. Whites they landed all four firsts in the single classes. Both Mr. Manning and his Superintendent are Leghorn enthusiasts and this breed is the only one that is kept at Turtle Point Farm which has a favorable location on the shores of Saratoga Lake. Mr. Manning told us that the demand for Black Leghorns was large and that those who had tried them were well pleased with the variety. It is surprising the number of Black Leghorns, both males and females that have been shown with pure yellow legs during the past few show seasons. It has made a different value of the variety. A mating list of prices for eggs and day old chicks and describing the matings for 1916 can be had on request by mentioning this paper.

Dr. J. H. Prudhomme, Desk W, Turson, Md., entered two Golden Campines and won 3rd hen and 4th pullet with birds that were rich in color and well defined markings. Dr. Prudhomme also breeds Sussex and Blue Orpingtons. He is offering hatching eggs of all three varieties and will send his description of his matings on request.

D. P. North, of Waterly, N. Y., Buff Rock specialist won 4th pen with a collection of well matched pullets and a rich even Buff cockerel. Though Mr. North has been a successful exhibitor at a number of prominent shows including Buffalo, Rochester, Elmira, etc., we believe it was his first entry at New York, and considering the strong existing competition, he has every reason to feel satisfied with the outcome of his first effort. We have known Mr. North personally for several years and have found him straightforward and honest in all his dealings.

Louis H. Perry, Route 7, Clay, N. Y., entered two birds, a cock and a cockerel in Rose Comb White Leghorn class and won second on each. In addition to R. C. White Leghorns, Mr. Perry breeds Buff Rocks, Fawn and White Runner Ducks, Colored Muscovy Ducks and Embden Geese. He reports a good stock of all of these varieties on hand

and is now booking orders for the spring egg trade.


Fred Armer, of Ballston Spa., N. Y., long time breeder and exhibitor of Buff Rocks entered four birds and won 2-3 cock, 4th hen. Mr. Armer's best cock bird was remarkable for his strong Plymouth Rock type and breed characteristics as well as for his very beautiful rich surface color. Mr. Armer will have a number of choice matings for the coming season, every bird to be carefully selected, and from which he will sell eggs.

Chestnut Red Farms, Hackensack, N. J., made three entries in Red Sussex and won 2nd cock, 4th hen and 2nd pullet with birds that were rich in color and good in Sussex type. This concern is offering choice breeding stock and hatching eggs. Those who intend trying out this breed will do well to write for prices.

A. A. Carver, Box 400, Seville, Ohio, sent one Red Sussex pen to the Garden and won 2nd. In addition to Red Sussex, Mr. Carver is breeding the Speckled variety and both Single and R. C. Rhode Island Reds. Mr. Carver has reported a considerable number of breeders for sale at reasonable prices and that he will have some choice matings for the egg trade.

F. G. Bean, Columbian Rock specialist, Collegeville, Pa., made two entries and won 1st hen, and 2nd cockerel. His winner in the hen class had unusually

well laced tail coverts in addition to a good black stripe in the hackle and pure white body color. Mr. Bean is one of the largest, if not the largest, specialty breeders of Columbian Plymouth Rocks in the country, raising from eight to ten hundred birds each season. He reports a considerable number of choice breeders for sale at reasonable prices



**BOOK ON
DOG DISEASES
And How to Feed**

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the Author
H. CLAY GLOVER, V. S.
118 West 31st Street, New York

America's
Pioneer
Dog Remedies

WILL MAKE HENS LAY

WILL MAKE CHICKS GROW

SOMETHING TO CROW ABOUT

"HEN-E-TA"

About 30% Tri-Calcium Phosphate
Popularly Called **BONE ASH**

NO OTHER BONE NEEDED | NO OTHER GRIT NEEDED

NO MORE BONE CUTTERS NEEDED
NO MORE BEEF-SCRAPS NEEDED
NO MORE CHARCOAL NEEDED
NO MORE OYSTERSHELLS NEEDED

100 lbs. - - \$ 2.25
500 lbs. - - 10.00

Balanced Ration Formulas Free

If you will give us your dealers
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HEN-E-TA BONE CO.
NEWARK, N. J. DEPT. 17 FLEMINGTON, W. VA.

BUFF WYANDOTTES YOUNG STOCK FOR SALE UTILITY AND FANCY

We won A. P. A. Grand Prize Medal for Best in American class at last New York, Palace Show.

THEODORE S. HEWKE,

MIDDLETOWN, N. Y.

RAVEN BLACK STRAIN S. C. BLACK MINORCAS

AGAIN WIN STATE CHAMPIONSHIP

At the South Bend Show, January 19th.

Some FINE COCKERELS For Sale.

JAMES S. KEATING,

Formerly Mishawaka, Ind.

MCGRAW, N. Y.

BLUE ANDALUSIANS

Bred as a specialty and producing winners at all shows. 104 ribbons and 17 specials at 13 shows during 1914-15. Winner Champion Challenge Cup at Boston and Blue Andalusian Club Specials wherever offered. Wonderful layers of large white eggs. Stock and eggs for sale. Send for 1915 mating list.

E. D. BIRD,

GREENWICH, CONN.



RICH'S FAMOUS ROSE COMB REDS

Winners at Chicago, St. Louis, Des Moines, Sioux City, Cedar Rapids, and in the hands of our customers in every State of the Union.

Our latest winnings are 4 firsts, 4 seconds, 2 thirds, and fourths, two silver cups, silver medal, Diploma, Special for best display and for best Red in show.

No Rose Comb Red breeder in the world has made greater winnings for a period of eight years than we have. We have the blood lines, large long bodied birds of grand color.

Write today for mating list, the finest matings and egg prices most reasonable. One man from a big show writes: "Your strain has been winning here for years, I want some of your eggs".

D. W. RICH

Box W

MT. PLEASANT, IOWA

FERNBROOK WHITE WYANDOTTES

Make a sensational win at the Greater Buffalo Show, Thanksgiving Week at the National meet of the White Wyandotte Club in one of the largest and best classes of the season as follows: 2 cock, in a class of 19; 1-2-4-6 hen, in a class of 28; 3-4-6 pullets in a class of 51; 1 pen old and 1st pen young, Best display. This with their past record at Boston and other large shows make them one of the leaders in this popular breed. We were never as well prepared at this season to furnish you choice stock, both old and young, either for breeding or exhibition purposes. Write us fully.

CHOICE BREEDING HENS \$2.00 UP.

CATALOGUE FREE.

FERNBROOK FARM,

Arthur C. Bouck, Mgr., Box C, Menands Road,

ALBANY, N. Y.

and will sell hatching eggs from the same pens that he will use for himself.

In the strong White Wyandotte class D. M. Snyder of 9 Beach Ave., Auburn, N. Y., won 3rd cock on the only entry that he made. This bird had a well arched neck, a broad back and a well rounded breast, a neat close fitting comb and splendid color. He was hatched from eggs sold to Mr. Snyder by Fred Lisk, Box W, Romulus, N. Y. Mr. Snyder paid Mr. Lisk a splendid compliment for square dealing when advising us regarding source from which the bird was produced. While enroute to the show through careless handling on the part of the Express Company, the cock bird's plumage was considerably damaged, otherwise it is probable that he would have done even better, notwithstanding the very strong competition. An illustration of this cock bird will appear in March A. P. W.

The display of Silver Laced Wyandottes was undoubtedly the finest that has yet been brought together in this country. The Silver Wyandotte Club of America held its annual meeting during the show and was attended by western and southern breeders as well as those from the Atlantic and New England States. The classes were represented by entries of the foremost breeders of this variety. Never before have we seen such wonderful color. Large pure white centers surrounded with a clear jet black band of lacing was to be found on many of the females, while the top color of males was remarkably free from brass or straw color. First prize pen belonging to Pope M. Long, of Cordova, Ala., was a remarkable collection of fowls. His first prize pullet was also a remarkable specimen. Mr. Long also won 4th hen.

A FEED FOR LITTLE CHICKS

Made by The H-O Company of Buffalo—Easily Digested by Young Ones.

"Watch your little chicks." This is the advertising advice of a company famous for its success in the poultry feed world.—The H-O Company, Buffalo, makers of H-O Steam-Cooked Chick Feed.

Believing that a scientifically balanced feed, well-cooked, is especially necessary for little chicks—The H.O Company has crystallized its experience and its knowledge of grains in a steam-cooked chick feed, which is thus made one of the most easily-digested feeds on the market. It is said that a high percentage of every brood fed on this Feed comes through healthy and strong.

The Steam-Cooking process removes much of the moisture in the grain so that this Feed keeps for a long time.

H.O Steam-Cooked Chick Feed is advertised in this paper. Any poultry raisers, big or little, who have not tried this important chick feed—should write for a sample and descriptive folder. The address is Buffalo, N. Y.

SCRANTON'S MADISON SQUARE RECORD

B. H. Scranton, Rising Sun, Ind., the S. C. Rhode Island Red specialist decided that the central west raised as good Reds as any other section of the country and to back up his decision he sent a nice entry to the recent Madison Square Garden Show. He was right as his birds won 1-3 pen, 1 cockerel, 2-4 pullet, 4 hen, color special on male, best

display with more than double the number of points of his nearest competitor, and grand special for the champion Red of the Show. This surely proves his contention and makes him a dangerous competitor at any show he enters. He has mated fifteen pens in which are many noted prize winners for the coming season and is now booking egg orders for future delivery. As he ships eggs from the same pens he uses himself you stand the same chance of producing the season's sensation, and this year's matings should produce some sure winners.

BROODERS FROM \$2.50 UP.

Readers requiring incubators, brooders or other poultry equipment should send at once for the catalogue issued by the Wendell Incubator Co., Holly, Mich. While the company manufacture a full line of equipment they call particular attention to their large line of brooders. This line comprises brooders ranging in price from \$2.50 up. That these brooders are giving the fullest satisfaction is proven by the long list of users who express their satisfaction in very strong terms. One reason for the low prices this firm quotes is that they deal direct with the consumer thereby eliminating all dealers profits. This of course results in a great saving to the purchaser which in the end really amounts to a greater profit from his poultry raising. A card addressed as above will bring the catalogue by return mail. Better send for it today and learn of these money saving offers.

COLORED LEG BANDS



Red, Blue, Black, White, Amber Pink, Green. 12-20c; 25-35c; 50-60c; 100-\$100; 250-\$2.25.

Box 344 N. Third St. **CHAS. L. STILES** COLUMBUS, OHIO

HAYNER'S BARRED PLYMOUTH ROCKS

S. C. R. I. REDS.

Winners wherever shown. Look up our Central Palace winnings, they are interesting. Bred to lay large brown eggs.

WRITE FOR PRICE LIST

H. W. HAYNER, Prop. JONAS HAYNER, Mgr LIVINGSTON, COL. CO., N. Y.

*** Why not try and get a few subscribers for A. P. W.? We have a very liberal proposition that will interest you.

BABY CHICKS—HATCHING EGGS—BREEDERS

White Wyandottes, R. I. Reds, both combs, Barred Rocks, Light and Dark Brahmas, S. C. W. and B. Leghorns. Utility and Show Quality. ILLUSTRATED CATALOGUE FREE.

RIVERDALE POULTRY FARM, RIVERDALE, N. J.

PHILLIPS PARTRIDGE ROCKS Make a great record at Buffalo, 1915, by winning 1-5 cock, 1 hen, 1-4 cockerel, 1-2 pullet, 1 pen old, 1-2 pen young and best display. They also won best display and several regular prizes including 2 firsts at the New York State Fair, 1915. It takes quality to make a record like this. Don't you need some of this quality. Cocks, cockerels and pullets for sale. Now booking orders for eggs. A 10 per cent discount allowed on all orders booked before March 1st.

JAMES F. PHILLIPS, 140 Merrimac Street, BUFFALO, N. Y.

Rose Comb White Leghorns Buff Rocks Colored Muscovy Ducks
Black Wyandottes Embden Geese Fawn Runner Ducks

win at Great New York State Fair, 1915, 7 out of 23 firsts competed for, also 8 seconds with 495 birds competing in these six varieties. Grand breeding and exhibition stock in all varieties at low prices for quality, reasonable satisfaction guaranteed. 12 years in business.

LOUIS H. PERRY, Route No. 7, CLAY, N. Y.



1915 EFFICIENCY 4 TO 1

Converts 5 pecks of dry grain into 5 bushels of fresh, green, egg making and chick growing feed. Does its work every day of the year without lamp or expense. Pays for itself in first month by reducing grain bill. Puts eggs in the nest. Grows rapid broilers, an ornament for the kitchen window or any place in the house. Green stain finish. Our 1915 Efficiency Sprouter combines simplicity with economy and all necessary and most convenient sprouting features. Greatest capacity of any sprouter made at the price of \$5.50 F. O. B. Warrensburg, N. Y. Satisfaction or money refunded.

C. CASS SMITH EFFICIENCY CO., WARRENSBURG, N. Y.

MOUNT PLEASANT FARM

AMERICAN S. C. W. LEGHORNS

Mount Pleasant Farm standard American bred Leghorns have been bred by us 14 years—Pullets raised from our chicks have a record of 215 eggs per year—For admirers of beauty and symmetry of the American Leghorn the Mount Pleasant Farm strain cannot be excelled.

Day Old Chicks Eggs for Hatching
Selected Cockerels

ENGLISH S. C. W. LEGHORNS

We have recently acquired a line of cockerels of the famous Tom Barron 283 egg strain English Leghorns—These we have mated with 500 Mount Pleasant Farm 2 year old hens—This mating combines the best laying strains of English and American S. C. White Leghorns.

Day Old Chicks Eggs for Hatching
Send for Free Booklet

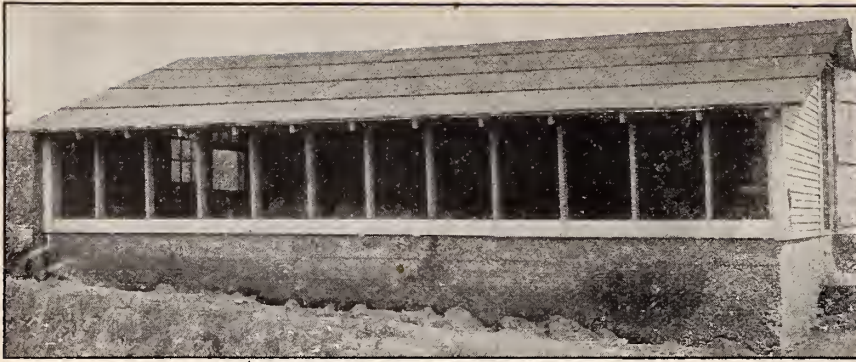
MOUNT PLEASANT FARM

MOUNT POCONO, PENNSYLVANIA

TOMPKINS R.C. & S.C. REDS

My Reds are known from coast to coast for their superior quality. The years of careful line breeding behind them make them one of the foremost strains in America today. Their quality is reflected in their repeated winnings year after year. Their wonderful record at Buffalo, N. Y. Thanksgiving Week is only one instance of their superiority—classes at this show are always teeming with quality yet Tompkins Reds won 1-4 young pen, 1-3 cockerel, 2-3 pullet, 2 cock, 3 hen on S. C. and 1-3 young pen, 1-4 cockerel, 1-3 pullet, 2-4 cock and 4 hen on R. C. They are doing as well for my customers and will do the same for you. Will you give them a trial? Choice matings in both combs from which to supply eggs and hundreds of birds from which to select your choice breeders. Better write me today for catalogue.

HAROLD TOMPKINS, Box, W, CONCORD, MASS.



TOLMAN OPEN-FRONT LAYING HOUSE

There are two or three houses of this type on the poultry plant of the University of Missouri, and Professor Kempster regards them as quite satisfactory under State conditions generally. This house is 20x20 and is designed to accommodate 100 fowls.

POULTRY WORK AT THE MISSOURI AGRICULTURAL COLLEGE

By Homer W. Jackson
(Continued from page 265)

the keeping of records and handling of fowls under the personal direction of a representative of the poultry department, and should prove of much assistance to those who are seeking to establish their poultry flocks or farms on a practical and successful basis.

Small equipment and large classes, necessarily interfere with investigational work, but a number of interesting experiments have been concluded or are underway. Last year, three laying flocks were used in an experiment to test the value of meat scrap and milk in the ration. One pen received a grain ration; another the same ration and 25 per cent. of meat scrap added; and the third pen had the same grain ration as No. 1, with all the sour milk the hens would drink. Pen No. 1 in a year's time produced 1373 eggs; Pen No. 2 (with meat scrap), 2668; and Pen No. 3 (with milk) 3275.

The Missouri Poultry House

Some experiments have been made here in poultry house construction, different types of ventilation have been studied and, as a result, the "Missouri Poultry House" has been developed. This house is 20 feet square; the ridge of the roof runs north and south; the side walls are five feet high, and the house is eleven feet high at the ridge. Two windows are placed on the east and west side, one on the north side, next the floor, and the south has an open space covered by wire screen one foot from the floor, three feet wide and running along the entire side with the exception of the space occupied by the door which is placed in the middle.

On each side of the door and above the open space are placed windows, these being of 8x10-inch, six-light sash. This house receives light from all directions and, by removing windows, can be perfectly ventilated in summer. A loft filled with straw makes the house cool in summer and warmer and drier in winter. It is designed to accommodate from 100 to 150 hens and is considered the best house for Missouri conditions that has yet been developed.

How College Departments Can Co-Operate

In addition to the experiments carried on directly by the poultry department,

there is a special opportunity for scientific investigation in poultry problems at the university through co-operation between the poultry department and other scientific departments of the school. Important results have already been se-

cured in this way and various lines of investigation of real scientific and practical value are now being carried forward. For example: the Veterinary Department has become interested in the question of serum treatment of poultry diseases, especially sorehead and roup, and has already secured results of the most encouraging nature.

I met the scientists in charge of this work, at the time of my visit last July, and found them quite confident of the practical value of their treatment and they then were planning to place this serum on the market. This method of treating sorehead and roup is not at all difficult and appears to be an effective and practical means of protecting flocks from these dreaded diseases.

That results generally with this treatment will be as good as have been secured at Columbia, I do not undertake to say. The subject has received even more attention at other institutions and confidence in it seems to vary inversely with the time devoted to the study of the problem; but there does not seem to be any

FAIRVIEW WHITE ROCKS

Champion and Grand Champion display winners at Forest City Fair, Cleveland, Ohio, 1915. If you want to know more about "America's Greatest Strain of White Rocks", write for free catalogue of show winnings and prices.

GUY DAILY,

Box W,

JEFFERSONVILLE, IND

Do you want exhibition birds? Do you want breeders that will breed you the kind that it takes to win? Do you want to increase your egg production and profits? Then you want

ECLIPSE WHITE WYANDOTTES

They have been line-bred and pedigreed for several years and are the kind that never fail to win in the show room and breeding pen. Please write me your wants and get my prices before buying elsewhere.

O. L. HILL, Breeder and Originator of "Eclipse" White Wyandottes, Box 227, Shelburn, Ind.

RESSEGUIE'S BROWN LEGHORNS

Make a wonderful record at the Greater Buffalo Show, Thanksgiving week as follows; 1-4 cockerel, 1 pullet, 2-4 cock, 2 hen, 2 pen old, Best display. If you are looking for Barred Rocks of quality, birds with both the winning and laying habit let me help you out. I have cocks, cockerels, hens or pullets of the same high quality as above winners that I will sell at reasonable prices. Tell me plainly what you want, I can help you.

L. B. RESSEGUIE,

MILLERS, N. Y.

IT WILL STOP YOUR CHICKS DYING IN THE SHELL

Professor Townsend says that chicks die in the shell because of the accumulation of Carbonic Acid Gas, or lack of Oxygen.

THE AJAX IMPROVED OXYGEN VITALIZER

Supplies Oxygen to the egg chamber of your Incubator and EVERY HATCHABLE EGG produces a CHICK. There is FIVE YEARS OF POSITIVE PROOF back of this statement and THOUSANDS of American Poultrymen have PROVEN it to be TRUE. Fifty "dead in the shell" chicks, means a LOSS of \$10.00 the Ajax Improved Oxygen Vitalizer costs \$4.00 DELIVERED anywhere in the United States, lasts a life time, can be attached to any incubator in five minutes, and PAYS FOR ITSELF EVERY TIME USED.

FREE BOOKLET

We have published a valuable booklet entitled "HOW TO MAKE EVERY HATCHABLE EGG PRODUCE A STRONG HEALTHY CHICK". This Booklet is FREE. Please do not ask for it unless you own or operate an incubator.

INVESTIGATING COUPON

Please send me FREE and without obligation on my part, your Booklet.

My name is
Address I own
..... Incubator of egg size.

RELIABLE POULTRY SPECIALTY CO.
MILLS STREET, ALEXANDER, N. Y.

THE
AJAX
IMPROVED
OXYGEN
VITALIZER



COLONY HOUSES AT POULTRY PLANT OF UNIVERSITY OF MISSOURI

A number of houses of this type were used for brooder chicks and growing stock. They are large enough to accommodate two brooder flocks, but an ordinary team of horses can readily haul them about wherever needed. One or two houses of this sort would pay for themselves in a year or two on any farm where chicks are raised. They can be located close to the residence or barn when the chicks are small, and later on, after grain or hay crops have been cut or after the corn is a couple of feet high, these houses with their contents may be hauled to the field and the chicks given free range until ready to go to market or are placed in winter quarters.

room to question the fact that important results have been secured at Columbia—results that deserve financial encouragement.

(Reports on serum treatment of these diseases from two other western states will be found in next month's Department of Government Work for Poultry, being omitted this month for lack of space.)

How to Secure Highly Colored Egg Yolks

Professor Kempster has also succeeded interesting the Dairy Department in certain of his poultry problems that connect more or less directly with dairying and through this co-operation, is getting results of practical value as well as of scientific interest. A bulletin recently issued from the Dairy Department, dealing with the coloring matter in egg-yolk and body fat in fowls is a case in point.

The Dairy Department has established quite clearly the fact that the yellow pigment of the egg-yolk and body fat is xanthophyll and not carotin. The common belief that carotin is the source of color in the yolk appears to be based on the idea that hens and cows have much in common, which has always appeared to me to be a curious notion. In view of definite facts that are gradually being brought to light, it would seem that poultry institute speakers cannot long escape the necessity for finding something besides the dairy cow with which to prime their orations.

The publication describing the experiments with reference to xanthophyll is reviewed on another page of this month's department. I am referring to it here simply to show how the Poultry Department at Columbia is able to get scientific results that are of decided importance, and at much less cost than would be possible at an independent institution.

The Biological Department also is interested in poultry-breeding experiments in close co-operation with the Poultry Department. This work is along Mendelian lines and has already resulted in demonstrating definitely the law of inheritance with reference to sickle feathers. Other similar problems are now under investigation.

If ability to get results with small resources is proof of capacity for wisely

using larger means, I maintain that Professor Kempster is entitled all the appropriation he asks for.

LAYWELL POULTRY FARM

Nestled in among the hills in the rugged Vermont Country is the Laywell Poultry Farm. To be more explicit this farm is locat-

ed at Lyndonville, Vermont and specializes in the Laywell strain of White Wyandottes. This strain is bred for laying ability and exhibition quality and appears to be accomplishing both. At the Vermont State Fair they made nearly a clean sweep winning first pen old, first pen young, first and second cock, first and second cockerel, second and third pullet and 3rd hen. The breeding pens for the season of 1916 have been mated by Arthur G. Duston well known White Wyandotte expert and eggs will range in price up to \$5 per 15 from the selected pens and \$1 per 15 from the utility pens. Better look up their ad in another column and send for mailing list.

ALLEN'S GUARANTEED FOODS

We cant keep poultry without feeding them and as the majority of us have to purchase all our feeds it stands us in hand to try and secure the best food for the money, that is the greatest feeding value per hundred pounds of feed regardless of price. When we are able to secure a feed possessing high feeding value at a reasonable price we have two important factors in favor of that feed. The Allen Milling Co., Dept. 4, Niagara Falls, N. Y., claim to combine high feeding value at a reasonable price and to these features they attribute the rapidly growing popularity of their feeds. They prepare a feed for all needs, Allen's scratch feed; Allen's Full Nest Mash for Layers; Allen's Nutro Chick Mash; and Allen's Nursery Chick Food. They make a strong claim for Allen's Full Nest Mash and back it with an absolute guarantee. For further information see their announcement on page 308 and then write for circulars and prices.

***** Ten cents sent at our risk will bring A. P. W. on trial for four months.**

RAWNSLEY-SHEILDS POULTRY FARM

Breeders of Sterling Strain S. C. Buff Orpingtons and Speckled Sussex
DEPT. 6, STATION B, COLUMBUS, OHIO

MOTTLED-JAVAS-BLACK

EGGS AND BABY CHICKS FOR SALE FROM 1916 WINNERS AT MADISON SQUARE GARDEN AND BOSTON.

SETH W. MORTON BOX 124, ALBANY N. Y.

VICTORY AT CHICAGO

GENSCH'S WHITE ORPINGTONS

Win first pen the coveted prize of all the S. C. White Orpington class, also second and seventh cockerels, third cock, sixth hen, third and seventh pullets. In addition to this GREAT CHICAGO WIN my White Orpingtons have won during 1914-1915, 8 firsts, 3 seconds, 5 thirds and 2 fourths.

White Orpington buyers of breeding stock or hatching eggs. Write me today for reasonable prices. Remember QUALITY. Better than ever.

F. M. GENSCH, Box G, OMRO, WISC.



DICKINSON'S GLOBE POULTRY FEEDS

1916 JANUARY 1916

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

THE SURE EGG PRODUCER

1916 Egg Record & Calendar Beautifully Colored FREE

Other egg records not so handy to keep or as easy to refer to sell for 25c to 50c. We want to send you this one ABSOLUTELY FREE. Just send your name and address. No letter necessary—a postal card will do. We send you this beautiful and useful Monthly Calendar and Daily Egg Record because perhaps some day you will feed to your chickens

DICKINSON'S Globe Poultry Feeds

and we want you to be able to know just how much better these feeds make them lay. "GLOBE" Poultry Feeds are scientifically blended from pure, sweet, thoroughly cleaned grains. No screening or siftings are used. They go farther and nourish more than ordinary feeds. Try feeding your layers "GLOBE" Scratch Feed with "GLOBE" Egg Mash. Feed your young chicks "GLOBE" Chick Feed and "GLOBE" Developing Feed.

Find the "GLOBE" Dealer in your town and just try "GLOBE" Poultry Feeds

The Albert Dickinson Co.
Poultry Feed Division, G.
Chicago, Ill.

TEST OF OREGON EGG LAW

A despatch from Portland, Ore., in Seattle Daily Produce News says:

"As a preliminary step to testing the constitutionality of a 1915 statute aimed at preventing the sale or use of imported

dates was complied with, hence in connection with the sale of the same cake."

A POPULAR BREED

Few breeds of poultry have more good qualities to recommend them than the S. C. Buff Orpington. They are particularly well adapted to the small grower on account of their utility value.

They not only are popular as a fancier's fowl, but their well known table qualities and reputation as winter layers make them desirable for the breeder who wishes to reduce the high cost of living. Of late years they have grown rapidly in popularity, a fact that is proven by the large class seen at our poultry shows, both large and small. Among A. P. W. advertisers who have made more than ordinary success with this variety we wish to mention H. W. Slade, Newark, N. Y. Mr. Slade has succeeded to a high degree and his success at leading shows proves the standard qualities of his flock, while his friends and neighbors can testify to their good laying qualities. It is a well known fact in the vicinity of Newark that Slade can furnish fresh eggs at any season of the year. A few years ago he acquired a small farm near the city where he has built up a fine flock and is now in position to furnish eggs for hatching at a wide range of prices, depending upon the quality of the mating. We advise readers to write him and learn of his prices before buying elsewhere. He can also furnish selected breeding stock both male and female. We understand that he has some excellent cockerels for sale at bargain prices. Just mention A. P. W. when writing, he will appreciate it.

***Send A. P. W to a friend, on trial for four months. A dime will do it.



FIRST PRIZE SILVER CAMPINE COCK AT NEW YORK STATE FAIR SEPT. 1915 BRED & OWNED BY MARTLING HENNERY RIDGEFIELD, N. J.

The record made by Martling Hennery Campines, Ridgefield, N. J., during the past season is one of the most phenomenal made by any breeder in this country considering the shows at which these winnings were made. At the Panama-Pacific Exposition, Palace, N. Y., Madison Square Garden, and Chicago Coliseum Shows, Mr. Martling's Campines were always well to the front in every class when the ribbons were up. At all of these shows the classes were brimful of the choicest quality and a winning under these conditions may be considered very valuable. In addition to the above victories, his record at the New York State Fair where 177 Silver Campines were shown in competition, seems quite remarkable. That Mr. Martling can exhibit at several shows the same week is evidence that he raises high-class exhibition Campines in large numbers. This also affords him the privilege of a large selection in supplying his trade, and no doubt if the exact records were known, his customers would also make a fine showing in the way of prizes captured. The above cock was first prize at the recent New York State Fair and was a specimen full of quality, having an abundance of lustrous green plumage and barring that was distinct and defined over saddle and tail coverts. He also carried good breast markings and wings that are second to none.—A. O. Schilling.

eggs, a complaint was issued by District Attorney Evans, through Deputy Geo. Mowry, charging C. S. Jacobson of the Sealy-Dresser Company with a violation of the law. He will be tried in the district court. The intention is to provide a test case which will be taken as speedily as possible to the supreme court of the state for final adjudication.

"The contention of Jacobson's attorneys is that the law is unconstitutional in that it interferes with interstate commerce. The test was arranged between Mr. Jacobson, representing the company, and M. S. Schrock, a deputy pure food commissioner, who purchased a cake containing eggs imported from China.

"The law provides that where such eggs are used a sign must be displayed reading, "Imported eggs used here," and that there must also be a sign reading, "Imported eggs used in the manufacture of this article." Neither of these man-

MARSHALL & MARSHALL

That Marshall & Marshall, Niagara Falls, Ont., Canada, White Wyandotte specialists, are succeeding in furnishing the quality of stock that wins in the hands of customers is amply proven by the following testimonial which we have permission to publish:

Berlin, Ont., December 27, 1915.

Dear Mr. Marshall: You no doubt will be pleased to hear of my clean up here at Berlin. I sure had the Indian sign on the whole American class, five firsts, four seconds, two 3rds, two 4ths, all on White Dottes. I really had my string in fine shape (had to have to win). I won very nearly every special prize given on the American class as a whole. Some of the... 's via... and then another exhibitor from Galt were there to win but I put them all to sleep. Say, Mr. Marshall, I won best cock in Galt show, also 1st Wyandotte cock.

Assuring you that "Niagradots" got one good boost at this show and wishing you a prosperous and very happy New Year, I am, Yours very truly,

A. S. UTTLEY,

Marshall & Marshall have scores of such letters, in fact we have seen copies of many of them so we know that their customers are well pleased and the kind that come again.

White Houdans Buff Wyandottes

Young stock for sale after November 1st. Will satisfy my customers or refund money. STUART A. HOWLAND, GRANVILLE, N. Y.

"Slades" Imperial Pekin and Fawn and White Indian Runner Ducks

Leading Winners, champion layers. Mating list with certified record of "Victoria", World's champion layer JOHN SLADE, MALVERN, PA

BUFF WYANDOTTES

BOSTON WINNERS Best Single Winter Egg Record at Storrs Egg Contest, 1914-15. Breeding or show stock. DR. N. W. SANBORN, 424 South Rd., HOLDEN, MASS

REMOVE THE DRONES
Increase your profits by using the
Sigler Automatic Trap-Nest
all-metal, reliable, fully guaranteed.
Lasts for ever. Printed matter and description on request.
SIGLER AUTOMATIC TRAP-NEST
North Lansing, N. Y.

CHAMPION LEG BAND

Aluminum, numbered to suit, with large raised figures. Postpaid 100-50c, 50-30c, 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, Riveted and Pigeon Bands. Sample for stamp.
T. CADWALLADER, Box 1505, Salem, Ohio

COME TO HEADQUARTERS

For your high-class Rhode Island Reds, both combs. We have birds fit for any show and will ship on approval. SCHENLEY HEIGHTS POULTRY FARM, Box 2, 1202 Commonwealth Bldg., Pittsburgh, Pa.

Hibbard's White Wyandottes



My winnings at the Greater Buffalo Poultry Show, 1914, speaks for the quality of my stock. I showed four birds only, and all were winners; 2nd Pullet, 2nd and 5th Hens and 4th Cockerel.

Considering that I competed against many of the best breeders in the United States and winning four ribbons on an exhibit of only four birds is evidence that my birds are of the right type.

My breeding pen included the above winners which have produced a fine lot of early hatched Cockerels and Pullets which I am offering for sale at reasonable prices.

If you want something for exhibition or breeding purposes write me for information. Let me hook your order for delivery at your convenience.

M. H. HIBBARD, RIDGEWAY, ONT.



SECOND PRIZE S.C. BUFF LEGHORN COCKEREL.
MADISON SQ. GARDEN 1915-1916 BRED & OWNED BY
L. E. MERIHEW MARATHON, N. Y.

It would seem uncommon not to find the name of L. E. Merihew, Marathon, N. Y., among the winners at such shows as Madison Square Garden, Buffalo, and New York State Fair. We have known Mr. Merihew as a winner in S. C. Buff Leghorns for many years and have had the pleasure and privilege of illustrating numerous of the prize winners. The study above showing his second prize cockerel at the recent Garden Show is one of the finest males considering type, color and head points that we have seen in some time. This male approaches the modern White Leghorn type in many ways. Buff Leghorns as a breed have been somewhat lacking in type and we are glad to see that breeders are beginning to accomplish marked improvements along these lines. Mr. Merihew raises annually from 700 to one thousand youngsters which gives him a good selection not only for show purposes, but to supply his customers' needs in both type and color. Mr. Merihew's second prize pullet at the Garden Show was another of the stars in the class as was the third prize pen shown by him. The females here were very even in color, having neat combs and the proper shade of Golden Buff color.—A. O. Schilling.

THE SPRINGFIELD, MASS., SHOW

The 8th annual exhibition of the Springfield Poultry Club, Inc., held in the Municipal Auditorium, Nov. 23-24-25-26, wound up in a burst of glory. Springfield has come to be recognized by the careful Breeder and Fancier as one of the premier small shows of the East. The Auditorium never looked more beautiful nor inviting and the host of Poultry Fans who favored the Club with their presence tended to make the affair a memorable one. There is no gainsaying the fact that Springfield does stage one of the most delightful Poultry Exhibitions in the United States. The expression of a recent member of the Dominion Parliament, who favored us with a visit, was that in his experience of thirty years visiting Poultry Exhibitions that Springfield could justly boast of one of the handsomest that he had ever seen.

The Rhode Island classes were unusually full, both varieties, and competition was keen until the final award. The Leghorns, both White and Buff as well as Black, were well represented by some of the old time breeders and awards were

placed with satisfaction by all concerned. Barred Rocks were especially good. The Buff Wyandottes, in fact the entire Wyandotte family, was beautifully supported and likewise the Orpingtons. The selling class, of which this Club is making a special feature, also proved a decided advantage to novices who are about to engage in the poultry business. The Press was well represented and reported excellent business. The exhibition made by the Mass. Agr'l College proved one of the most interesting features of the show and that, with the interest taken by the Hampden Co. Imp. League, made the educational part of the show profitable to the exhibitors. In fact, the show from every angle had a little on any other show given by the Club.

Arrangements have been made for the 9th annual exhibition which will be held in the Auditorium, Dec. 12-13-14-15, 1916.

THE CACKLE OF A HEN

Listen for the cackle of your hen. It has a money value to you.

Plan for the cackle, feed the hens in accordance with the demands of nature as propounded by the experts who have spent their life in the work.

If the cackle is not heard with sufficient frequency ask yourself why. Dig down and study the subject for the more you study the oftener the hen will cackle, and cackling means more eggs and a bigger bank account.

It is the law of nature that a hen should lay, and cackle. She should lay often and do much cackling, for that, too, is nature's law.

But she will not lay unless she receives proper food and care, and there-in lies the wisdom of the man who thinks before he acts.

Get hold of some good literature, read up on the subject of egg production, apply the knowledge you thus obtain, and in the end you will learn to experience a keen delight in every cackle of your hens.

Your hen wants to cackle—she WILL cackle, if you give her a chance.

And there's money in the cackle of a hen.

The following is a sterling home made remedy for Scaly Leg:

Mix one spoonful of lard with one spoonful of coal oil and one spoonful of powdered sulphur and rub the legs with this mixture twice a week.



200 EGG HATCHER COSTS ONLY \$3

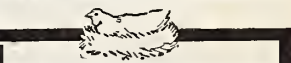
No freight to pay. Actual hen controls everything. No lamps, no expense, no costly mistakes. Over 750,000 in use. Thousands of testimonials. Agents wanted. Free Catalog with 1916 Million-Mark Introductory Offer. NATURAL BIRD INC. CO., Sta. H, Dept. 29 Los Angeles, Cal.

Ondawa Farm S. C. WHITE LEGHORNS

Win prizes and Lay eggs. Eggs and Chicks from high class pedigree birds bred from trapnested hens at reasonable prices. Choice stock always for sale.

L. T. McLEAN, Ondawa Farm, Box 60, SHUSHAN, N. Y.

RICH GOLDEN YOLKS



depend on summer green food. Hens can get this necessary succulence better and cheaper than green food and will lay more eggs if you dissolve SUCULENTA TABLETS in their drinking water. Results or money back, 100 large tablets 50c by mail. 250 tablets \$1.00 postpaid. THE SUCULENTA CO., P. O. Box 405-17 Newark, N. J.

SPECIAL SALE R. AND S. C. RHODE ISLAND REDS 600-YEARLING PULLETS, COCKERELS-600

I must reduce my stock of breeding birds and am going to sell at \$2.00, \$3.00, \$5.00 and \$10.00 birds worth three times the money. Just the right time to get breeders from which to get show birds for the winter shows. This is your opportunity—grab it while you can. Everything on approval and money back if you do not like it. Baby chicks and month old chicks also.

ANNESLEY M. ANDERSON,

Box W.

MORTON, Pa.

ROUP—NO—MORE

FOR WINTER EGGS

Read what one customer says about it. Rid your flock of colds and roup and get winter eggs.

Bardwell St.,

South Hadley Falls, Mass.

My Dear Mr. Lynch:—

In regards to your remedy "Roup-No-More" I wish to say that I have seen it tried out on some of the worst cases I have ever seen, and it surely did have them cured and laying in no time. I believe that it is the best roup cure on the market today.

Yours truly,

Wm. H. Eaton,

S. C. R. I. Breeder.

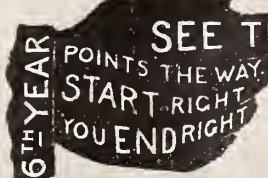
Trial bottle \$.15; Medium \$.25; Large \$.50.

ROUP-NO-MORE LABORATORIES,

781 Hampton St.,

HOLYOKE, MASS.

WE CHALLENGE



any person in the world 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. 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. K, Buffalo, N. Y., also Bridgeburg, Canada

QUESTIONS AND ANSWERS

EDITORIAL NOTE—This department will be devoted to answers to questions of general interest on practical poultry topics asked by subscribers and addressed to Editorial Department, AMERICAN POULTRY PUBLISHING COMPANY, Stafford Bldg., Buffalo, N. Y. Answers in this department are free of charge. Where two or more persons ask substantially the same questions, only one answer will be given. In asking questions try to send full information. The subscriber's name and address must be given [not for publication]. If a reply by mail is desired, be sure to enclose stamped addressed envelope.

Cockerel Does Not Crow

Q. I have a seven-months-old S. C. White Orpington cockerel, weighing six and three-quarter pounds. He has all the good points of a breeder, straight legs, erect posture, broad breast and is of a lively appearance. He is vigorous and healthy, having never been sick a day. He has not crowed or attempted to and shows no signs of doing so. Do you think it would be advisable to breed with this "crowless rooster?" S. K., Jersey City, N. J.

A. As this bird seems to possess all the requisites of a healthy, vigorous male, we can see no objection to breeding from him. As he is now mated with the hens we would advise that you set a few eggs and test his fertility. This will be the true test of his value in the breeding pen. As to why he fails to crow we are unable to say unless he is one of those slow maturing birds that do not find their voice until full maturity is reached.

Off Colored Ear Lobes—Shipping Coops

Q. (a) I have some S. C. White Leghorns of good type but they are off in color of ear lobes. Will it hurt their laying qualities if I try and breed this out of them?

A. If you proceed along the right lines you should succeed in correcting this defect without any damage to the laying qualities. Our advice would be to secure a good male with sound ear lobes, one that you know is from a high producing dam. Then select from your best layers the one with the best ear lobes and mate with this male. The chicks from this mating should show improvement. Follow the same system year after year, using a cockerel of your own, providing you have one suitable from a high producing dam.

Q. (b) I want to make a few exhibition coops to put my birds in to ship to shows; will you tell me how big these coops should be or the dimensions for them? B. W., East Jewett, N. Y.

A. Shipping coops vary in size somewhat but we have found those of the following dimensions very satisfactory. For a single American or Mediterranean male or small Mediterranean pair, a coop of the following dimensions is suitable: 10½ in. wide, 18 in. long, 21½ in. high. For Asiatic male or a pair of the American varieties, the dimensions should be: 10½ in. x 24 in. x 21½ in. When a larger number of birds are to be shipped the coop may be 19½ x 24 x 21½. We prefer, however, to ship one bird in a coop, when sending to an exhibition and for this purpose the small coop will be found the most satisfactory. Exhibition coops, such as are used in the show room, are usually 24 inches deep by 24 inches wide, by 30 inches high.

Bantam in Extra Molt

Q. I have a strange case of molting and come to you for information. I have a Bantam hen, one year old, that molted very early in the fall after laying well all summer. About December 1st, she began again and her feathers came out a few at a time. She is feathered out again and is looking quite well, but not as good as after the first molt. Will you let me know through the columns of A. P. W. if you have known of many such cases. W. A. E., Auburn, Maine.

A. It is not unusual for fowls to go into the second molt after molting in late summer or early in the fall. This has been the one great drawback to the forced molt that a few breeders advocated some years ago. The object of the forced molt, as you are probably aware, was to get the hens through this period thirty or sixty days earlier than the regular molt takes place in order to get them into laying condition for early fall and winter laying when eggs were high in price. It worked well up to a

certain point, that is, early laying was induced, but a majority of the hens went into a second molt after cold weather had set in and this put a stop to egg production until late in the spring. Your Bantam hen seems to have performed in precisely the same manner and in growing a second coat of feathers it has probably so taxed her vitality

BUXTON'S PARTRIDGE ROCKS

Blue ribbon winners at leading New England Shows and New York State Fair. Circulars describing 1016 matings free. Some stock for sale. G. S. BUXTON, BELLOWS FALLS, VT.

Barker's Black Langshans

An established strain that has won highest honors at Madison Square Garden, Chicago, etc., year after year. M. S. BARKER, THORNTOWN, IND.

No Odors

Kill Rats & Mice by Science

Pasteur Laboratories Rat Virus

NOT A POISON

PASTEUR LABORATORIES OF AMERICA

NEW YORK CHICAGO

EASY TO USE

HARMLESS TO POULTRY DOMESTIC ANIMALS AND MAN


NEW YORK 336 W. 11th St. CHICAGO 19 N. La Salle St.

Oat Sprouter \$2

For \$2.00 you can build the simplest, most efficient, easiest to operate and very best oat-sprouter ever constructed. A boy can make one in an evening with no tools but a saw and hammer. Cost of operation for a 40-hen size less than 7c a month. There are thousands in successful operation. Plans with plain directions for building, 25c postpaid.

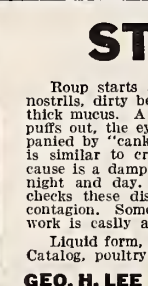
I. PUTNAM, Route 101 ELMIRA, N. Y.

STOP THAT ROUP!



Roup starts as a simple cold in the head. The indications are watery eyes or nostrils, dirty beak, wheezing or coughing at night. Later the discharge becomes a thick mucus. A chicken cannot blow its nose. The nasal passages fill up. The face puffs out, the eyes swell shut, then death ensues. This disease is generally accompanied by "canker," a yellow or gray coating in mouth, throat or on tongue, which is similar to croup or diphtheria and is very contagious and fatal. The original cause is a damp or drafty poultry house, or extreme changes in temperature between night and day. A little Germozone in the drinking water generally prevents or checks these disorders right at the start and is especially valuable in preventing contagion. Sometimes individual treatment is necessary, but, with Germozone, the work is easily and quickly done and no long, tedious "doctoring" necessary.

Liquid form, 12 oz., 50c; 32 oz., \$1.00. Tablet form, one size only, 50c, postpaid. Catalog, poultry book and sample free.



GEO. H. LEE CO. 308 Lee Bldg. Omaha, Nebraska

ZENOLEUM

KILLS LICE AND MITES

Disinfects the Hen House, Brooder and Incubator. Cures Roup, Scaly Leg, Canker, Cholera. Prevents White Diarrhoea.

Endorsed by 50 Experiment Stations.

DISINFECT THE INCUBATOR

Prof. W. R. Graham, Poultry Expert for the Ontario Agricultural College at Guelph, reports:

"We have succeeded in hatching 7 to 8% more chicks that grow and live well by washing the machine with a 10 per cent solution of Zenoleum before putting in the eggs. It proves of greatest value in maintaining the vitality of the chicks. I would use this substance in every machine set."

Pittsfield Poultry Farms Dip 1,000,000 Eggs

"Each year we use more Zenoleum in incubation. We dip our eggs and wash the incubators. After several years of thorough trial we are convinced it is very much worth while. We now use 135,000 eggs at a setting and Zenoleum is used on every hatch, just as it used to be when we set only 6,000 at a time."

OUR GUARANTEE: If Zenoleum is not all YOU | Prices Postpaid; 8-oz. 25c; think it ought to be, you can have your money back. | Quart 50c; Gallon \$1.50.

Ask for our free 1915 Poultry Life Insurance Policy.

The Zenner Disinfectant Co., 370 Lafayette Ave., Detroit, Mich.
Zenoleum Lice Powder, 25c; postpaid 35c.



that she will not recover her laying form until late in the spring when the weather is warm and invigorating.

Keeping Hatching Eggs

Q. Kindly advise how long hatching eggs can be kept and a good hatch expected? How should they be cared for? W. P., Hamilton, Ind.

A. It is generally conceded that the fresher the eggs are when set the better will be the results. We have known of cases where eggs were kept for three weeks and on a few occasions, even longer with satisfactory result at hatching time. Where the eggs are to be kept for some length of time they should be placed in a room that the temperature remains between 50 to 60 degrees F. We prefer to place them in a reclining position with the large end the higher and then see that they are carefully turned or the position changed daily. If the eggs are from healthy, vigorous stock and are well fertilized, we believe little difference in hatching results will be noticeable. On the other hand, if of weak fertility the long period will probably effect the hatching results.

Alternating Males

Q. I have a pen of Rhode Island Red females and two very good cockerels. Would you advise using these males in the breeding pen on alternate days? C. A. S., Louisville, Ky.

A. Much depends upon your aim in breeding, if you are keeping a small flock for family use and don't care a great deal about standard requirements your plan is an excellent one as it insures good fertility. If, however, you wish to improve the quality of your flock, we would advise that you make two matings. Select the better cockerel of the two and carefully study his standard values, then select four or five females that are the best in standard qualities, being particular to see that they are strong in the sections in which the male lacks. The other cockerel can be placed with the balance of the females as a general mating.

Enteritis

Q. I have a Light Brahma hen that acts very much as if she had cholera, only I never knew cholera to attack fowls in cold weather. She has a profuse diarrhoea of a dark greenish color, sometimes showing streaks of blood. The comb is very dark colored and the bird is inactive and all out of condition. If you can tell me what the trouble is, it will be greatly appreciated by a regular reader of A. P. W. Reader, Freeport, N. Y.

A. This appears to be a severe case of diarrhoea and resembles enteritis in many respects. This disease is caused by a derangement of the digestive system followed by the development of bacteria in the intestinal tract. It is usually caused by careless feeding and the lack of cleanliness in the general care. The first treatment should be a general revision of the methods of care and the inauguration of a campaign of cleanliness by giving the houses, feeding and watering utensils a thorough cleaning and disinfecting. This will prevent the development of new cases if it is well done. As the disease is contagious the sick birds should be isolated and a sharp lookout kept for new cases. Add a little powdered charcoal to the mash or better still hang a hopper of granulated charcoal where it is easily accessible to the fowls and let them help themselves. If

the bird is not too weak give a good purging with castor oil or epsom salts a teaspoonful to each bird. Then feed stale bread moistened with boiled milk and give boiled milk to drink. Procure one of the advertised tonics or poultry powders and feed as directed. If all rules for cleanliness are observed and carefully followed you should be able to control the disease and the losses therefrom should be small.

Bronchial Trouble

Q. I have a fine White Orpington cock that contracted a cold at our local show. I succeeded, as I thought, in curing the cold, but since the bird has developed a rattling noise in his throat and often whistles or makes a similar sound when breathing. He appears healthy aside from this trouble which appears to give much annoyance. Any help in curing this complaint will be greatly appreciated as I value the bird highly. L. A. J., Pennsylvania.

A. This may be a case of Bronchitis as this complaint often follows a severe cold. The attack varies sometimes causing little or no inconvenience and at others being so severe as to cause the death of the specimen. As you state that your bird appears to be in good health, aside from the rattling in the throat we assume that the disease has reached the chronic stage. Sometimes the disease in this form is stubborn in its response to treatment, but thoroughness and persistence in treating the complaint usually wins out. For treatment favorable results have followed the administration of two drops of aconite every two or three hours. Another treatment that is strongly recommended is the "Durand Anti-malarial Pill." One pill should be given night and morning in the soft feed.

GLOBE FEEDS

Readers of American Poultry World should send to the Albert Dickinson Co., Poultry

Feed Department G, Chicago, Ill., for a copy of their 1916 egg record and colored calendar. This will prove a very useful article to all poultrymen and will be sent free, if you will send your name on a postal and mention American Poultry World. The Albert Dickinson Co. advise us that the supply is limited and we accordingly urge our readers not to delay in sending for a copy, which is absolutely free and printed in full colors.

Albert Dickinson Co., manufacture Dickinson's Globe Feeds, which are a balanced ration made from pure, sweet, thoroughly cleaned grains. They have agencies in the principal cities and if your dealer does not handle it, they will send you the name of the dealer nearest you on request.

A BOOK FOR FAMILIES

DISEASES and THEIR CURE

FIFTY YEARS EXPERIENCE

OVER 300 PAGES, handsomely bound and full of facts in medicine, symptoms and directions for treatment in each case. To close out the edition, will sell copies at 75 cents each, postage paid. Address

DR. O. H. CRANDALL
QUINCY, ILLINOIS

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., 421 Traders Bldg., Chicago

SINGLE COMB WHITE LEGHORNS

with low well spread tails, four high class exhibition matings. Winners at Chicago, and other mid west shows. We also breed R. I. Reds both combs, with that dark rich red color. Some are deeper in color of neck than other sections. Eight high class matings. None better anywhere. Our White Rocks have been line bred for 15 years and have proved their quality by their wonderful wins for the past ten years. They are exceptional in back, tail and breast shape, four star matings. Send for free circular and description of matings.

KEYSTONE POULTRY FARM, Guy E. Schreff, Mgr.,

LINCOLN, NEBR.

Reliable Poultry Remedies

How to PREVENT and CURE DISEASE

A Poultryman's Hand Book of Tried and Proved Remedies for the Diseases of Poultry. It describes in simple language the symptoms of the various diseases and tells what remedies will give best results under different conditions.

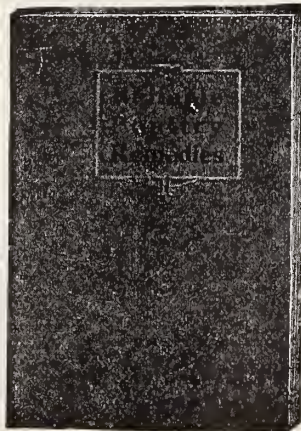
The Chapters are: Requisites for Health; Head, Throat and Lungs; Intestines and Crop; The Abdomen; Legs and Feet; The Skin; Parasites; Objectionable Habits. Send for complete list of our publications.

Price, 25 Cents, Postpaid

60 Cents, including a Year's Subscription to
American Poultry World.

Canadian Subscribers add 25 cents extra.

American Poultry Publishing Co.



POULTRY WORLD AFFAIRS

Latest reports from Allentown, Pa., states that Theo. Wittman, who has been confined to the Allentown Hospital for some time, is able to be around again.

of Monmouth Farms, Freneau, N. J., is the proud papa of a bouncing pair of twins, a boy and a girl, if our information is correct.



FIRST PRIZE & SHAPE SPECIAL S. C. R. I. RED COCK
NEW YORK PALACE SHOW DEC. 1915 BRED & OWNED BY
LESTER TOMPKINS CONCORD, MASS.

One may obtain a fair impression of the magnitude and quality in the Rhode Island Red classes at the recent Palace Show in considering the fact that 227 S. C. Rhode Island Reds were on exhibition in competition. In this class Lester Tompkins, Concord, Mass., won 1st prize cock, 5th hen and 1st prize pen. Together with this winning he also won 1st prize cockerel in the Rose Comb classes and 2nd prize pullet. First S. C. Cock and first Rose Comb cockerel as well as first prize Single Comb pen were admired by most of the breeders present and we heard many favorable comments throughout the week regarding the wonderful type and color of the specimens shown by Mr. Tompkins. First prize cock is shown in above illustration and it is needless to say that he was a bird of wonderful type, very even in color and sound throughout. Mr. Tompkins has always been an admirer of type and has clung to it while keeping up with the pace in improving and producing present day Standard quality. His dual effort along these lines has resulted in a strain that not only possesses color, but also along level back, around full breast, and symmetrical body that is well set on stout legs and thighs, true characteristics of the breed. These characteristics show up well in the male shown in above picture. He is one of many which Mr. Tompkins has been exhibiting in the past and no doubt his many customers have enjoyed the results of his breeding yards in the production of high class exhibition Rose and Single Comb Reds.

A. E. Beatty, formerly connected with the Philadelphia North American, has accepted a position as Eastern representative of Everybody's Poultry Magazine.

A fine of \$100 was imposed upon a Portland, Oregon, grocer for selling a cake made with Chinese eggs, but without being labeled as required by the Oregon egg branding law.

J. C. Punderford, formerly proprietor

H. P. Schwab, editor of Everybody's Poultry Magazine, suffered an attack of LaGrippe at the close of the Garden Show and was confined to his hotel in that city for several days.

Thos. Lockwood, of Trenton Junction, N. J., has accepted the management of a large poultry plant in Connecticut. Mr. Lockwood's practical knowledge of poultry raising, all branches, and his long experience with poultry qualifies him for the position.

By the explosion of a chemical solution at the home of J. W. Parks, Altoona, Pa., Mr. Park's brother, John L. Parks, and Miss Moore, a sister-in-law, were painfully though not seriously injured. Other members of the household had just left the room in which the explosion occurred.

One of the largest deals in Standard fowl made in many a day was recently closed by H. P. McDonough of McDonough & Bidwell, Newark, N. Y., when he acquired the entire Manhattan Farms flock of Silver and Golden Campines. This flock of more than 500 head are now in the yards of the firm at Newark, N. Y.

During the year

1915, Petaluma, California poultry raisers shipped 11,681,134 dozen eggs. This number is exclusive of those used for home hatching and table purposes, therefore does not indicate the full amount of eggs produced in this the greatest egg producing center in the U. S. But this is not all as 79,609 dozen head of poultry were shipped during the same period.

William H. Osman, Pontiac, Mich., who has reached the allotted three score and ten takes justifiable pride in his marksmanship as he claims to be the champion hawk shooter of the country. He is credited with the destruction of more than 4000 chicken hawks during his lifetime and expects to add a few more scalps with his trusty gun and the assistance of a pet owl. It is needless to say that he is held in high esteem by the farmers and poultry raisers of the state.

The State of Wisconsin takes pride in its poultry industry which reaches the round sum of \$15,000,000 yearly. The Wisconsin Poultry Journal gives the following facts and figures to show that poultry raising is not by any means neglected by Wisconsin farmers. 50,000,000 dozen eggs are marketed yearly. 150,000 Wisconsin farmers raise poultry. 300 young men and women are studying poultry husbandry at the College of Agriculture, University of Wisconsin, 60 poultry shows are held in the state annually.

A Boston, Mass., magistrate recently imposed a fine of \$200 each on five men charged with dealing in rotten eggs. Those fined were Davis Stohl, a baker, charged with using rotten eggs in cakes; Israel Garman, a grocer, for purchasing and selling rotten eggs; L. Cohen and L.



SQUAB BOOK FREE

Make money breeding PR squabs. 1916 demand biggest ever. Squab book free, telling money-making experiences. How to sell by parcel post. 66 to \$8 doz. Start small, grow big. Many women customers. Write today. PLYMOUTH ROCK SQUAB CO., 611 HOWARD ST., MELROSE HIGHLANDS, MASSACHUSETTS.

Mirimichi Quality

S. C. R. I. Reds, White Plymouth Rocks and White Wyandottes. Winners at New York, Boston, Brockton, Providence and Attleboro.

Cockerels, Pullets, Cocks and Hens that will win for you. Prices low. Satisfaction guaranteed. Catalogue free.

MIRIMICHI POULTRY FARM

W. H. Saart, Mgr., Foxboro, Mass.

RED-SUSSEX-LIGHT

Winners at Madison Square Garden, Chicago, Buffalo and Hagerstown. At Pittsburgh, 1915, ten firsts, three seconds and special for best display of Sussex. The demand for Sussex will be enormous. If you wish to be sure of getting your stock or eggs when you want them, order now. Mating list on request.

HOUSTON & HOFIUS

So. Charlestown, Ohio



S. C. WHITE LEGHORN WINNER AT CHICAGO COLISEUM SHOW DEC. 1915 BRED & OWNED BY KEYSTONE POULTRY FARM LINCOLN, NEB.

know how to appreciate a good christian boy who is willing to show her that he is faithful and trust-worthy of a trial.

"I will promise to put forth every effort to accomplish a success. My birth place is San Francisco, but all my relatives were lost in the earthquake. If there are no widows in Buffalo, perhaps there are some nice young girls that would appreciate a good sober boy to comfort. Any girl who answers this should send her picture and if it meets with my approval I will do likewise."

The letter is signed Edwin L. Lavekelly, Materville Station, Conn.

supply some of the demand for day-old chicks have installed during the past year large coal burning incubators. Their customers either buy the chicks when hatched, or furnish the eggs in the first place and pay so much an egg for hatching. The former method will appeal to the man who desires to get new blood or a different breed of fowls, while the latter system is good for the poultryman who already has excellent stock, and wants large numbers of chicks for shipment.

J. G. Halpin of the Poultry department of the University of Wisconsin reports that it is likely that in a few places in the state large wholesale incubators will be operated at co-operative creameries or in some other convenient place.

Charcoal is a corrective, grit helps digest the fowls food, oyster shell furnishes the lime to make the egg shells, fresh clean water is always necessary, proper feeding and clean, comfortable quarters keeps the flock healthy, but, to obtain success with poultry, only one other thing is needed, and you must supply that—brains.

THE BELLE CITY INCUBATOR

Readers contemplating the purchase of an incubator, should ask Jim Rohan, pres. of Belle City Incubator Co., Box, 117, Racine, Wisc., for a copy of his free book and his 1916 incubator and brooder offer. Mr. Rohan is enthusiastic over the Belle City and each year offers big cash prizes to his customers. In other words, he organizes a hatching contest among users of Belle City Incubators and, of course, those obtaining the largest hatches secure the biggest chunk of the money. This year he is offering more money than ever before a fact that speaks well for the success of this machine. If our memory serves us right, \$1300.00 has been set aside for Belle City users this year, every cent of which will be distributed among those whose success is the greatest. Mr. Rohan will gladly send details of this contest, together with his free book to all who will address as above and say send me your free book and information regarding the big hatching contest.

DAY-OLD CHICK TRADE GAIN IN VALUE

The sale of day-old chicks is becoming a well-established industry in Wisconsin. This method of restocking poultry plants and recruiting farm flocks experienced poultrymen believe will prove to be a decided boon to many sections as it will mean earlier maturing birds and consequently more eggs next winter.

Some poultry raisers who intend to

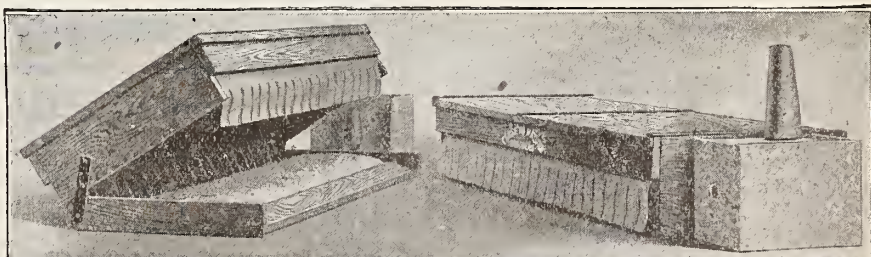
S. C. Buff Leghorns
Madison Square and Palace Winners
Orange Poultry Yards
MANHASSET, L. I.

One of the largest classes at the recent Chicago Coliseum Show was in the exhibit of White Leghorns shown by some of the best known breeders in this country. Keystone Poultry Yards, Lincoln, Nebr., exhibited two cockerels one of which won 5th prize and is shown in above illustration. Which were the subject of much favorable comment in view of their exceptional qualities. The fact is, many of the breeders present considered this male worthy of higher honors and in our personal opinion he is one of the choicest males that has been shown at any Chicago Show within our recollection. He had a very neat comb that set firmly on head, a graceful neck and a beautiful sweep over back and saddle. The fact, is he had the desired turn of body that is shown in the most modern type White Leghorns of today. He was clean cut in hock outline, and also had a full round breast and a tail well spread and carried at the proper angle. Keystone Poultry Farms seem to have valuable line of White Leghorns and we hope the future will see them in competition again and that Dame Fortune will be more kind to them when the ribbons are hung, especially on such specimens as shown by them this year.—A. O. Schilling.

Silverstein, bakers, charged with purchasing rotten eggs and Benjamin Selzer, an egg merchant, charged with exposing for sale, selling and delivering decayed eggs. A few such object lessons should aid in destroying the traffic in this class of eggs.

Who wants to marry a chicken man? The following letter received recently by Post Master Kastings, at Buffalo, N. Y., offers the opportunity. In some ways it is a little out of order coming as it does in leap year, nevertheless it breaks the ice and makes the proposal for the willing one somewhat easier. The letter follows:

"Dear Postmaster:—I am appealing to you to find a nice lady, preferably a young widow, not over thirty, for matrimony. I am a great admirer of brown eyes and hair, and also black eyes and hair if the possessor weighs about 160 pounds and is five feet, eight inches tall. I have a poultry farm and the young lady must like this kind of life. She must have a good education and must



CLOSE-TO-NATURE OPEN AIR HOVER

The Longest Portable Hover Now Advertised
Five Feet Long, Warmed Evenly By Heater on Inductive Principle
Applies the three Close-To-Nature principles—Contact Warmth like hen; Open Air Ventilation, not hot air; Non-Piling or Overcrowding.
Combines the Fireless with the Lamp, use the lamp for very young chicks and discard it as they grow older; or use the lamp during the daytime but extinguish it at night when they cluster for the night.

Hinged for easy cleaning and airing. Roosting bed of earth or litter. Perfectly sanitary, brooders on the same principles. Nothing like these brooders and hovers now on the market. Don't buy till you have read the Close-To-Nature circular. It is free. Very low prices this season.

CLOSE-TO-NATURE CO., 48 Front St., COLFAX, IOWA

HENS

I've a varied lot of chickens
 In a pen,
 And they used to raise the dickens
 Now and then.
 Every rooster in the flock,
 Brahma—Leghorn—Plymouth Rocks,
 Dunghill strain and blooded stock,
 Loved one hen.

She was fickle and flirtatious,
 Gay and spry,
 Coy—uncertain—pert—audacious—
 Likewise sly.
 When some valiant chanticleer
 Tried to whisper in her ear,
 He received a vicious spear
 In his eye.

But one day a seawny fellow,
 Old and tough,
 Bandy-legged—dingy yellow,
 "Called" her bluff;
 Female feathers filled the air
 Blood was spattered everywhere,
 But he licked her then and there
 Sure enough.

From that very day and hour
 She was meek;
 Mistree Hen was in his power
 So to speak.
 Followed him across the lot,
 Saved him all the worms she got,
 Fed 'em to him, like as not,
 With her beak!

This is just a homely tale,
 But it's true.
 Hens prefer a master male,
 Yes they do.
 He who hesitates is lost,
 Stand your ground at any cost;
 Hens delight in being bossed—
 Women, too.—Ex.

THE AXFORD ROUND INCUBATOR

Readers of A. P. W. are urged to send for the free literature of the Axford Round Incubator, the incubator with no cold corners and one of the oldest on the market. In fact, the Axford won its first diploma, which by the way was the first award ever made an incubator in America, at the Nebraska State Fair, in September, 1875, and it has been adding to its success ever since that time. The Axford Round Incubator is different from any other incubator on the market and embodies some important features that are impossible to incorporate in the square machines. This machine is built in several sizes at a wide range of prices from \$9.90 up. One of the distinguishing features of the Axford is that it is upholstered in an imitation of Spanish leather making not only a perfectly air tight case, but also an attractive piece of furniture that may be used in any room in the house. To secure full particulars, write today for a new catalogue to the Axford Incubator Co., 735 East 45th St., Chicago, Ill.

POULTRY SUPPLY BOOK FREE

The Smith Specialty Co., 925 Bird Bldg., Mansfield, Ohio, have a free poultry supply book which contains a valuable egg record for each pen every day in the year that they will send to all A. P. W. readers who will send their name on a postal. In addition to the egg record it describes 78 guaranteed articles for the poultry keeper and quotes low direct to you prices. The Smith Company are manufacturers and sell direct to the consumer thus saving the middleman's profit. Better send today for the free book and keep an egg record for the balance of the season. Know exactly what your birds are doing and learn if there are some loafers as they are only a source of expense. A well kept record will eliminate this kind.



DICTOGRAPH WHITE FAVEROLLES

The Sensation at Madison Square, Palace, Syracuse, Boston and Allentown.
 52 Blue ribbons won with specials for Shape and Beef Type.

The Premier Meat and Winter Egg Fowl of the Poultry Consuming Nations, France and Switzerland. \$50 in gold to the customer that raises the largest bird from our eggs this season. "The Fowl you will eventually raise." Send stamp for the only White Faverolle book published.

DICTOGRAPH POULTRY FARM
 RFD 6 WEST NYACK, N. Y.

Single Comb White Leghorns

Look at our Record Look at our Record

At the biggest show in Massachusetts, outside of Boston, 1st, 2nd, 3rd cock, 1st and 2nd pens—winning display over all competitors. At the biggest show in New Hampshire, we won every first in our breed; also showed a cockerel that was the best bird in the show.

Do You Want Stock Like This?

We have a surplus stock of cockerels that must be cleaned up at once. Prices from \$3.00 up. We also offer a fine line of R. C. and S. C. Rhode Island Reds for sale.

Rosemont Farm,

Nashua, N. H.

"THE FEATHERED WORLD" YEAR BOOK 1916.

An indispensable handbook of reference and comprehensive review of the year for Poultry Keepers and Pigeon Fanciers, fully illustrated with photographs of the winning birds at British shows. 45 cents in Paper Boards; 80 cents in Cloth Binding.

This book offers an exceptional medium for advertising stock, as it goes to fanciers the world over. The charges are very moderate, viz., \$6.00 for a full page advertisement and a copy of the work. Orders should be sent in as early as possible. Illustrations can be inserted in the text at the same charge.

Subscription rate to the Feathered World newspaper is \$2.75 a year. Specimen copy free upon application. Address

9 Arundel Street, Strand, London, England



BIG LEGHORN SALE

Our annual fall sale of Single Comb White Leghorns is now in progress. We offer:

5000 Pullets that will lay in October.	1250 Yearling Hens—already splendid layers.	500 Cockerels—full of vigor and of great size.
--	---	--

These are all high class birds, bred especially for size and egg production. We also offer you for the late fall and winter shows.

Show Birds

that will win for you wherever they go—Wilburtha S. C. White and Buff Leghorns, Columbian Wyandottes and Columbian Plymouth Rocks. Reserve now.

Buy our stock and make a name for yourself. Mating list free.



Charles J. Flisk, Owner
Box W, Trenton Junction, New Jersey

Send for our handsome new Catalog—the talk of the poultry world. Free.

Breeders' Special Display Cards

Advertisements of uniform size inserted under this heading at \$2.50 per month; six months for \$13.50 or \$2.00 per month by the year.

Palmer's White Rocks

ARE BRED FOR
UTILITY AND QUALITY
BABY CHICKS

The Glen Poultry Farm, R.F.D., Fairport, N. Y.

I. W. BEAN STRAIN Rose and Single Comb R. I. Reds

Fine exhibition and breeding stock and
eggs from best pens for sale. Address

MARVEL POULTRY FARM

Jones & Thayer, Props., Randolph, Mass.

HARRY TAYLOR STRAIN "Jimcrack" Houdans (None Better Bred)

I have a few fine cockerels for sale fit
to show in any company. Big, vigorous
birds, carrying all the great qualities of
this famous strain. Sons of prize winners
last 5 yrs. Toronto, Ontario, Guelph, Bos-
ton. Eggs in season.

M. Knight, Owner and Breeder, Cresskill, N. J.

S. C. WHITE LEGHORNS A Utility Flock of Quality

Won first hen Grand Central Palace, New
York City, 1915. Stock and Hatching Eggs
at reasonable prices.

Locust Grove Farm Eatontown, N. J.

TOM BARRON STRAIN WHITE LEGHORNS

Cockerels \$3.00 and \$5.00 each.

Yearling Hens \$2.50 each.

C. G. BAXTER, Box 62, ROSELAND, N. J.

SCHUNEMAN'S BLUE RIBBON Light Brahmans, Buff Orpingtons, White Wyandottes, Barred Rocks and Mammoth Pekin Ducks

are of highest quality. Stock and Eggs for
sale. Correspondence solicited.

G. Schneman, R.F.D. 2, Box 98, So. Huntington, L. I.

MATURED COCKERELS

Heavy Laying White Wyandottes, few
pens and trios. Egg record of breeders
furnished.

YOUNG'S STRAIN S. C. W. LEGHORNS.

No stock for sale. Hatching eggs in
season.

HUBERT ELTING, HIGHLAND, N. Y.

ANCONAS

My birds are trapnested and are producers
and winners. Catalogue showing eleven
winners from Madison Square and Phila-
delphia for 2c stamp.

A. E. WOHLERT, R. 4, NARBERTH, PA.

Barred Rocks

Winners of 14 silver cups, 33 firsts, 21
seconds, 18 thirds, 11 fourths and 8 fifths.
Eggs from this high class exhibition
stock \$5.00 per 13.

E. F. Schweikert 1552 Main St. - East,
Springfield, Ohio

S. C. RHODE ISLAND REDS Extra Heavy Laying Strain

Eggs for hatching and day old chicks. Prices
very reasonable

PLEASANT VALLEY POULTRY FARM,
R. HADLEY, Prop. Ellicottville N. Y.

Special Display Cards

**\$2.50 per Month in advance; Six Months
\$13.50 payable quarterly in advance
or \$2.00 per Month by the Year**

Now is the time to advertise your
surplus stock. Feed prices are high and
the quicker you turn them into money
the larger your profits.

A Breeders Special Display Card is the
medium that will quickly put you in the
touch with the buyer, and do so at small
cost.

Just note the above prices and see if
you can afford to pass the opportunity
by and continue to throw away hard
earned dollars in high priced feed.

Don't let that feed bill grow until
your profits are all consumed. Use a
Special Display Card for a few months
and let it dispose of that surplus stock.

Better send your copy and order today.

BARRED ROCKS

Winners at the Great Panama-Pacific
International Exposition. Pullet won cham-
pionship ribbon at Springfield, Ohio, for
best pullet in entire show.

Guaranteed eggs from these prize win-
ners \$5.00 per setting.

G. H. Mayne, Springfield, Ohio.

Fisher's S. C. W. Leghorns

at New York State Fair, September, 1913,
won 2nd and 3rd pen, 5th hen. White
and Fawn and White Indian Runner
Ducks. Booklet Free.

A. FISHER

R. No. 2-W, Canastota, N. Y.

Send Us Your Order Today

AND LET A
SPECIAL DISPLAY CARD
Sell Your Surplus Stock
THEY GET THE BUSINESS

Get my mating list of Dune Alpin Strain S. C.
W. Leghorns and S.P.P. Rocks, yards headed
by 1st. Madison Square Garden cock, 1st.
Palace cock and cockerel 1st. and 2nd.
Brooklyn cocks, and others as good. Eggs and
stock for sale.

Wm. M. Jones East Hampton, N. J.

REICHARD'S POULTRY FEED

Will Make Your Hens Lay

We have oyster shells, beef scraps,
blood meal, bone granules, bone meal, grit
and charcoal. Write for price list. Special
prices to dealers, who buy large quanti-
ties.

Reichard Hide & Tallow Co., Ashland, Pa

Blue Blooded White Leghorns and Barred Plymouth Rocks of Quality

A few of our select stock of cockerels,
pullets and breeders for sale. Write for
particulars. Eggs in season.

Rutter Poultry Place, Patchogue, L. I.

FOR SALE OR EXCHANGE

1 Essex's Model Incubator, 400 egg size, hot
air, Humphrey Greenbone Cutter, 2 Inter-
national Hoovers, Corn Cracker and Grit
Mill, all in first class condition, will exchange
for any kind of fancy chickens or fancy
pigeons. Address

James Holtzinger, Walnut St., Wrightsville, Pa.

ROSE COMB REDS

BED TO THE SKIN

I have a few good, strong cockerels for
sale from \$5.00 up. Write me your wants.

GEORGE H. BROWN,

Box 67, Dover Plains, N. Y.

JOHN E. STOLL Breeder of White Ply- mouth Rocks and White Wyandottes

1913 White Rock winnings 1 cock, 1 hen, 1-2
pullet, 2 pen. 1915 winnings white Wyan-
dottes, Forest City Fair, 1 cock, 1 hen, 1 cock-
erel, 2-3 pullet 1 pen.

3311 E. 105 St., Cleveland, Ohio

HUTCHINSON WHITE ORPINGTON SHOW STOCK FOR SALE. EGGS FOR HATCHING

Winners. Augusta, Memphis, Colum-
bus, Orlando, Tampa and many others.

We do not only win in own class but
sweepstakes with all classes competing.
1915-1916 catalogue on request.

Hutchinson Farm Box 595 W, Valdosta, Ga

THE J. S. J. AUTOMATIC AND TRAP NETS

Won First Prize and Gold Medal at Panama-Pacific
Exposition

Separate layers from non-layers auto-
matically without attention. Write for
booklet and prices.

JORDON & CHAPMAN MFG. CO., INC.

221-225 No. Central Ave., Staunton, Va.

MAGENTA POULTRY FARM

Established 1898

Eggs by settings or hundreds. My
1916 matings contain winners from Mad-
ison Square Garden, New Haven, Conn.,
and Springfield, Mass., shows. Fine single
comb breeding males \$10 each. Will
send them on your approval. Free circular.
S. C. and Rose Comb Rhode Island Reds
F. E. Woodard, East Longmeadow, Mass.

Experiment Station Stock Trap Nested-Pedigreed

A limited number of hatching eggs and
baby chix from W. Rocks, B. Rocks, W.
Orpingtons, S. C. R. I. Reds, S. C. W.
Leghorns and Buttercups at prices based
on actual cost of production. Order early.
Mating lists and prices.

Fallbrook Poultry Farm, Box 253, Little Valley, N. Y.

S. C. Rhode Island Reds

Tompkins and Scranton Strains

Our 1914-1915 matings proved more
than we expected. Eggs \$1.50 per 15,
\$.60 per 100, \$25.00 per 500. We will
give satisfaction.

J. S. BERGH, JACKSON CORNERS, N. Y.

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SHEPPARD'S FAMOUS ANCONAS. The World's best, Single or Rose Comb. First at World's greatest shows. Greatest egg record—256 average. Catalogue free. Cecil Sheppard, Berea, Ohio. 6-3-6

QUALITY ANCONAS. More firsts at Syracuse, Allentown and Hagerstown than any other exhibitor. Grand old and young stock. Special prices. George Barstowe, Oneonta, N. Y. 4-2-6

CHOICE MOTTLED ANCONAS. carefully mated trios and pens. G. H. Hubbard, Lock Haven, Pa. 3-2-6

SINGLE COMB ANCONAS. Heavy layers. Hatching eggs, 15-\$1.25. Progressive Poultry Farm, Interlaken, New York. 4-5-6

SINGLE COMB ANCONAS EXCLUSIVELY. Fine large dark, correctly mottled birds. Comb and type right, grand egg producers. Cocks, hens, pullets and cockerels for sale at very reasonable prices, considering quality of stock. Eggs for hatching at \$1.50 per 15. \$7.00 per 110. Geo. C. Schwegman, Richmond, Indiana. 4-5-6

ANCONAS. Mated to Sheppard cockerel. Eggs, \$1.50 per 15. F. Booth, West Alexander, Pa. 3-4-6

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BLUE ANDALUSIAN EGGS, from a good laying strain. Pens headed by prize winning males. Prices reasonable. Harry Cotting, Rhinebeck, N. Y. 3-4-6

BABY CHICKS

BABY CHICKS AND HATCHING EGGS. Single Comb Rhode Island Reds, also White and Brown Leghorns. Bred from a strong, vigorous heavy laying strain of free range stock. Circular. Adrian DeNeef, Sodus, N. Y. 4-5-6

S. C. WHITE LEGHORN CHICKS, \$10 per 100. Eggs, \$6 per 100, \$50 per 1,000. If you want really good chicks or fertile eggs from high grade utility stock order now. Satisfaction guaranteed. C. A. Schwebel, Leaman Place, Pa. 4-5-6

BABY CHICKS. Candee hatched S. C. W. Leghorns from large healthy females mated with males of trap nest stock. Booking orders now. \$12 per 100. Venture Farms, Middletown, N. Y. Route 1 3-4-6

A. B. C. HATCHERY BREEDING BOTH COMB REDS, chicks and eggs. Seventh season. Hemlock to Mallard St., Paterson, N. J. 1-2-6

FOR SALE, day old chicks, 12-15 cents each. Eggs for hatching, \$1.00 per 15. Buff and White Orpingtons. Mrs. A. B. Cleveland, Union, N. Y. 4-5-6

BANTAMS

ALL BREEDERS of Bantams should procure a copy of the "Bantam Book". Fully describes all varieties and tells how to feed and care for them. Just what the beginner wants to know. Send 50c. today to AMERICAN POULTRY PUBLISHING "O.", Buffalo, N. Y. tf

BANTAM SPECIALIST—Buff, Black, Partridge Cochins, Light and Dark Brahmans. I ship on approval. Circular free. Geo. C. Salmon, Port Dickinson, N. Y. tf

SEABRIGHT, SILKIE, Light Brahma, Rose Comb Black, Black Tailed Japanese, Black Red Game, Buff, Black and White Cochins Bantams. Proper & Son, Schoharic, N. Y. 6-4-6

WORLD'S FAMOUS BUFF, BLACK COCHIN BANTAMS. Breeders and show stock. Wm. Fillman, Red Hill, Pa. 4-2-6

ALL VARIETIES COCHINS AND BRAHMAS. Winners Philadelphia, Syracuse, Allentown. Prices reasonable. C. N. Sayre, Box 397, Horseheads, N. Y. 3-2-6

JAPANESE, SEBRIGHTS, Cochins, Games, Brahmans, Rose Combs, Polish. Circular 2c. stamp. Penn Bantam Yards, Desk 44, Delevan, Wisc. 6-6-6

WHITE COCHIN BANTAMS. Breeders and show stock. W. E. Fowle, Danville, Pa. 2-3-6

Edmund J. Hickey breeder of (blue ribbon) **LIGHT BRAHMA BANTAMS.** High winners in all shows. Washington, Hagerstown, Allentown, Panama-Pacific Exposition, Buffalo, Baltimore Philadelphia, Altoona. Eggs and stock. Box 1918, Washington, D. C. 4-5-6

M. K. MILLER, POTTS TOWN, PA. Bantam breeder and importer. "Silver Seabrights a specialty." Satisfaction guaranteed. 1-2-6

BRAHMAS

SEE RIVERDALE POULTRY FARMS advertisement, Light and Dark Brahmans, page 327. tf

LIGHT BRAHMAS. Show stock and breeders S. S. Newton, Ballston Spa, N. Y. 6-5-6

SEE MY ADVERTISEMENT on page 323. Harvey C. Wood, Box 75, Bound Brook, N. J. tf

FORTY YEARS BREEDING WINNERS at largest shows. Stock and eggs for sale. Dr. S. Lott, Bellona, N. Y. 1-2-6

BUTTERCUPS

BUTTERCUPS, ALVINIAN STRAIN from hens laying from 260 to 309 eggs yearly. Stock and eggs; booklet free. Satisfaction given. Sahler & Sons, Harlingen, N. J. 4-3-6

SOLE WINNERS all classes Buffalo and Palace shows. More specials than competitors combined. Only Buttercup strain having Official Laying records. Circular. Chantrelor Plant, Uister, Penna. 3-4-6

CAMPINES

IMPROVED SILVER CAMPINES. Choice stock reasonably priced. Rev. W. Berberich, Groton, N. Y. tf

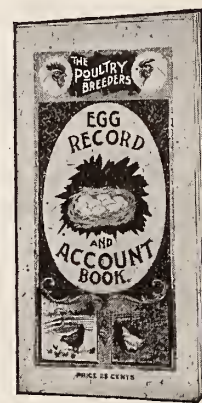
MY CAMPINES WON 22 RIBBONS and several specials at Syracuse, Allentown and Lancaster. Three largest fall shows this year. High class stock shipped on approval at whatever price you wish from \$2.00 up. C. A. Hettema, Passaic, N. J. 4-2-6

SILVER CAMPINES, Jacobus and Kennedy strains only best cockerels I am selling at two dollars. Eggs one fifty per setting of fifteen. Strictly fresh. Charles E. Henderson, Austerlitz, New York, Columbia Co. 3-4-6

COCHINS

COCHINS ALL VARIETIES as well as Brahmans and Langshans are described in the book "The Asiatics", the only complete treatise on the oldest fowls in existence. A copy will be sent postpaid upon receipt of 50c. cash or stamps to AMERICAN POULTRY WORLD, Buffalo, N. Y. tf

EGG RECORD AND Account Book



An
Easily
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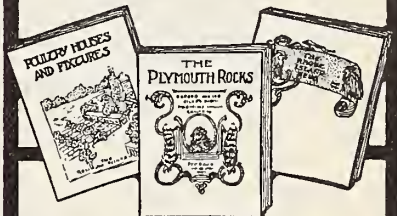
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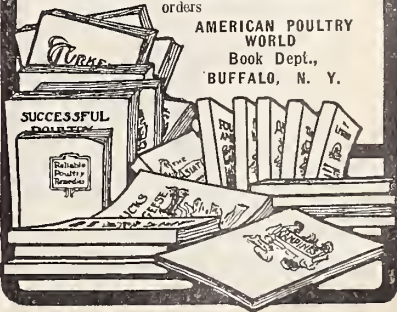
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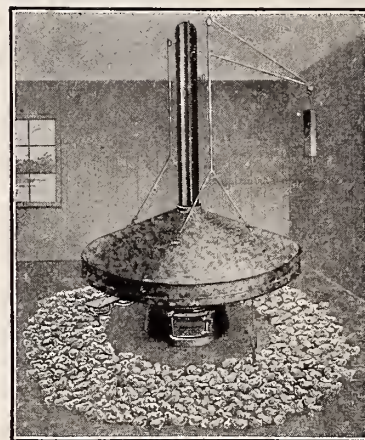
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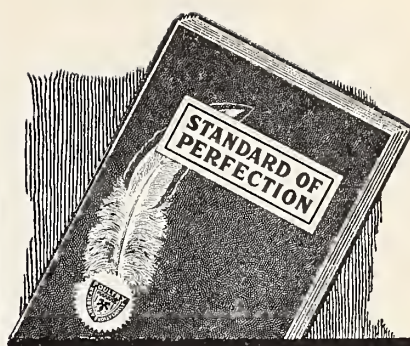
R. C. BLACK BANTAM EGGS. Circular free. Show winners. Jay Beswick, Berea, Ohio. 2-3-6

INDUSTRIOUS YOUNG man 25, married, would like to work on poultry farm and learn the business. Address "S", *American Poultry World*. 1-2-6

C. E. ELLIOTT, breeder of high class White and Buff Faverolles, Speckled Sussex, Baron-Rothschild strain. S. C. White Leghorns, Tom Barron strain. Write for prices on stock and eggs. Zion City, Ill. 1-2-6

A SWEEPING VICTORY.

The recent victory of Bird Bros., at Madison Square Garden with their Partridge Rocks and Mammoth Bronze Turkeys still further clinches their claim to the best in these two varieties. In Partridge Rocks they won four of the five firsts, eleven other regular prizes and twenty-five of the thirty-six specials. In Bronze Turkeys they won every first, twelve other regular prizes and sixteen of the eighteen specials. We are advised that they have stock for sale in either variety also that orders are now being booked for hatching eggs from the finest matings they ever owned. The above and many other noted winners being in their breeding pens. A stamp will bring a catalogue of either variety.



THE NEW STANDARD

The Second Edition Revised and Corrected Now Ready

Don't fail to secure a copy of the New Standard before you attempt to mate your breeding pens. You cannot mate correctly without a copy of this book. It is the recognized American authority on all matters pertaining to breeding and exhibiting poultry.

It gives a close and detailed description of every recognized breed and variety of chickens, ducks, geese, and turkeys with illustrations from living models. The most complete and valuable book of its kind ever published.

Start right by securing a copy now, price post-paid, cloth binding \$2.00, leather binding \$2.50, or a copy and *American Poultry World* one year for 25 cents additional to U. S. subscribers, 50 cents additional to Canada. Address all orders

AMERICAN POULTRY WORLD

Book Dept.

BUFFALO, N. Y.

THE OLD TRUSTY INCUBATOR

Readers of A. P. W., who have never seen a copy of Johnson's "Old Trusty Book" have missed one of the most interesting pieces of literature in the poultry business. Of course there are catalogues and catalogues but there is only one Johnson. This Johnson book is in a class by itself, and while it tells of the Old Trusty Incubators and brooders it is done in the Johnson way and Johnson has a way of telling his story that is vastly different from the other fellow. Johnson talks to you and he does it in his peculiar way. He has a knack of gaining your attention at the start and the farther he goes, the more interesting his story becomes. Johnson uses simple, plain every day language without any flourishes and he talks right from the heart. He describes the ups and downs of a poor chicken raiser who invented an incubator while working as engineer in a mill and takes you step by step through the whole experience until he brings you to the door of one of the largest and most successful incubator factories in the country. His is a most interesting story and one every A. P. W. reader should be familiar with. It gives new enthusiasm and makes life worth while. To fully appreciate Johnson's story send today to the M. M. Johnson Co., Clay Center, Nebr., for a free copy of the book and we guarantee that once you start to read you will finish the book before laying it down.

PREMIER PARTRIDGE WYANDOTTES

The readers attention is called to the grand record made by the Premier Partridge Wyandottes, during the show season just closed. They began their campaign at the big fall fairs and kept right on until the season closed. Included in the shows at which they carried off the lions share of the prizes, were New York, Boston and Cleveland. The record at these shows stand like this, the Palace New York show every first, Cleveland four firsts, Madison Square Garden three firsts and four firsts at Boston. In addition to this they were also awarded many second and third prizes and specials. Their customers are also reporting similar results and Sheffield Farm certainly has every reason to feel proud of their record. In addition to the above Hugo Hark, manager of Sheffield Farms advises that every Partridge Wyandotte winning at San Francisco, was of the Premier strain. He further states that the prospects for a big business in hatching eggs and day old chicks is extremely promising. They are already booking orders and are desirous of sending their big catalogue to every A. P. W. reader who is interested in this startling variety. Just address Sheffield Farm, Glendale, Ohio., H. B. Hark, Mgr., Poultry Department.

INCUBATOR AND BROODER FOR \$10.

The Wisconsin Incubator Co., Box 60, Racine, Wisc., is making a most attractive offer and one that should receive prompt response from all interested in the purchase of hatching machinery. This offer consists of one 130 egg incubator and a brooder of corresponding size, for \$10 freight prepaid to any point east of the Rockies. So confident are the manufacturers that the Wisconsin will give satisfaction that they ship on a 30 days free trial. This seems like a fair proposition and at least deserves investigation by all who contemplate the purchase of a hatching outfit this spring. These machines are no experiments as they have been before the poultrymen for many years. The test of time is a sure indication of the value of any article and many have fallen by the wayside during the time the Wisconsin has been before the public. A card addressed as above will bring full details regarding this offer so why not send today it may mean the saving of dollars to you.

PROTECTION AGAINST SUDDEN CHANGES

Afforded in Progressive Incubators by the "Hundreds of Dead Air Cells" Construction.

One of the hardest problems of an incubator manufacturer is to safeguard the eggs against rapid weather shifts. No matter how good the heating system employed, the box itself must be properly insulated or sudden drops in the outside temperature are liable to cause trouble. The manufacturers of the Progressive Incubator meet this condition by using a special cellular constructed material

in combination with an outer wall of genuine California Redwood in such a way that hundreds of dead air cells intervene. This method of insulation has both science and common sense to recommend it—and its efficiency is pretty clearly proven by the fact the hundreds of users of Progressive Incubators report getting a healthy chick from every hatchable egg. Further information about this dead air cell construction can be obtained from the Progressive Incubator Co., of Racine, Wis.

A BIG DEAL IN CAMPINES

Recent advice from H. P. McDonough, of the firm of McDonough and Bidwell, Newark, N. Y., states that they have acquired the entire flock of Campines, consisting of some 500 birds, of Manhattan Farms, Brighton, N. Y. The quality of this flock is too well known to require any description here. In past seasons they have been leading winners at prominent shows and their victories at Madison Square Garden will be remembered by all lovers of Campines. A majority of these winners are now in the breeding pens of McDonough and Bidwell and they are quoting interesting prices on eggs. With their own large flock and the Manhattan Stock they have a large surplus to dispose of and we understand that some startlingly low prices will be in force until all extra stock is disposed of. They are in excellent position to supply well mated breeding pens and solicit the inquiries of interested A. P. W. readers. Their aim is to satisfy and they only ask to be given a chance. It is a rule with this firm that every customer must be satisfied and all sales are made with that understanding. An inquiry will bring full information and prices and no doubt some surprises in the bargains they have to offer. This purchase makes McDonough and Bidwell one of the largest, if not the largest, breeders of Campines in America. A word to the wise is sufficient. Just say you saw their announcement in A. P. W., it will bring prompt personal reply.

COLES BUFF ROCKS WIN

Frank C. Cole, Van Wert, Ohio, who devotes his attention to producing the best Buff Rocks that careful study and systematic mating will produce, has had a most successful show season, which proves conclusively that quite a lot of really high quality Buff Rocks are produced at Van Wert, Ohio, by a chicken man named Frank C. Cole. To show just how good the Cole Buffs are when in competition the following list of winnings is appended:

Canton, Ohio, December 28 to January 2, 1916, Central District Meeting of the Buff Rock Club, in a hot class 1-2 cock, 4-5 hen, 1-3 pullet, 1-2-3 cockerel, 1st pen, Central District cup and gold watch for best display.

Great Triangle show, Fort Wayne, Ind., January 1-2-3, in competition with Panama winners, 81 Buffs in class, 1-2-3-4-5 cock, 2-3-4 hen, 2-3-4-5 cockerel, 1-4-5 pullet, 1-5 young pen, 4 sweepstakes specials.

At Van Wert, Ohio, January 25-29, State Meeting of the Buff Rock Club, 1-2-3 cock, 2-3-4 hen, 1-3-4 cockerel, 1-4 pullet, 1-2 pens and state cup.

CONKEY'S POULTRY BOOK

The G. E. Conkey Co., 1004 Conkey Bldg., Cleveland, Ohio, have just issued a revised edition of their poultry book. This book consists of 80 pages and is cbook full of valuable information on poultry raising. It starts right at the beginning and tells how and where to select a site for a poultry plant, discusses buildings and illustrates several of the most improved houses and their construction. After this the selection of birds is taken up and this is followed by feeds and feeding. Several good feeding formulas are given together with a table of feeding values of the various grain and feed stuffs which permits those so inclined to balance their own rations. The care of chicks is also discussed as also are the selection of eggs for hatching, mating and breeding. Taken all in all it is a valuable book and should be in the hands of every reader. It sells regularly for 50 cents but the Conkey Co., have had a large edition printed and as a large number of A. P. W. readers are Conkey customers they have decided to send a copy to all who will send 4 cents in stamps to pay the postage.

THE WRIGHT BOX

Attention is directed to the advertising of Tywacana Farms, Box 60, Farmingdale, L. I., N. Y. This farm in addition to an extensive poultry business makes a specialty of eggs and chick shipping boxes. These boxes are the results of their own requirements for a safe and trustworthy carrier for the thousands of hatching eggs and day old chicks that they ship each season. Instead of experimenting with the various types of boxes on the market, Supt. Wright made one after his own ideas. It has proved so successful that they are now manufacturing them on a large scale and offer them to A. P. W. readers who wish a safe and sane package for the transportation of eggs and day old chicks. This firm will gladly send full particulars to all who will send their name and address and mention A. P. W.

ROSE COMB REDS

A few surplus pullets for sale. No eggs for sale this year.

C. E. RILEY, 747 Fillmore Ave., BUFFALO, N. Y.

Minorcas of Every Comb and Color

A Book For The Minorca Breeder

Written by Geo. H. Northrup, conceded to be the greatest living authority on this breed. This well written, well illustrated book will prove valuable and instructive to all lovers of Minorcas.

It gives full information on all breeding, mating and feeding problems including the care and management of chicks, and preparation of birds for exhibition.

The origin and history of all varieties of Minorcas including S. C. Black, R. C. Black, S. C. White, R. C. White, Buff, Mottled and Barred Minorcas are fully discussed. If you are breeding Minorcas you need a copy of this book. We send it post paid for 50 cents. Address all orders

AMERICAN POULTRY WORLD

Book Dept., Buffalo, N. Y.

COLE'S QUALITY BUFF PLYMOUTH ROCKS

Champions of the Central West. Choice breeding and show birds for sale. Also Egg Basket Strain of S. C. Buff and S. C. White Leghorns. Book your egg orders now. Mating list free.

FRANK C. COLE, Poultry Judge,

VAN WERT, OHIO

Columbian Wyandottes Are Gaining

in popularity. There has been large classes of wonderful quality this season. My birds won the State Championship Display Cup at the New York Palace Show in December, 1915. Then the leading winners of the year came together at the National Meet of the Columbian Wyandotte Club in Pittsburgh, January, 1916, and in this final and supreme test of the year I won the most coveted prizes, first cockerel and first pen. Also first and 5th pullet, 2nd and 3rd old pen, 3rd young pen, 3rd and 5th cock and 4th hen. Secretary's \$25.00 cup for the best cock, hen, cockerel and pullet. Specials for two best cockerels and two best pullets and a number of other specials. My 1st cockerel, 1st pullet and 1st pen out class every other cockerel, pullet and pen of this variety that has been shown in the world, this season. A few good males and females to spare. Eggs from the World's best exhibition matings, \$10.00 per 15, two settings \$18.00. No mating list.

LEVI A. AYRES, Box B, GRANVILLE, N. Y.

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BABY CHICKS AND HATCHING EGGS

Elsewhere in this issue will be found the announcement of Pettit Bros., Wilson, N. Y., who become annual advertisers with this issue of A. P. W. Pettit Bros., make a specialty of farm raised S. C. White Leghorns and Rhode Island Reds and are now booking orders for eggs for hatching and day old chicks. They guarantee high fertility and strong, healthy chicks and solicit the patronage of all A. P. W. readers who are in the market for either. Price list will be sent free to all interested who will mention A. P. W. when writing.

FASHION PLATES VICTORIOUS AGAIN

There is an old adage that constant dripping will wear away the stone. This may be likened to the more modern saying that keeping everlasting at it brings success. The latter is just what Chas. V. Keeler, R. F. D. 17, Winamac, Ind., has done in breeding his Fashion Plate strain of White Wyandottes and it is just what has made him one of the most successful breeders of this variety in America, today. Mr. Keeler has been a stickler for system and when he began breeding poultry he realized the importance of doing things well and of keeping an accurate record of all breeding operations. In this way he

has built up a strain that can be termed distinctly Keeler White Wyandottes. He has had the foresight to keep his birds right down to the minute and modern in all particulars. This is why they have been so successful in the show room and why they usually win the lions share of the prizes as they did at the recent Chicago Show, January, 13-19, where they won 1-2-4 cock, 1-5 hen, 1-2-3-4 cockerel, 1-5 pullet, 2-4 old pen, 1-3 young pen against the best breeders of the west, and in competition with 190 of their choicest productions. This only goes to show how well Mr. Keeler has succeeded and stamps his system of breeding as correct. There is another point about Mr. Keeler and

that is that he has no room for culls or mediocre stock only the best are good enough to grace his yards and when he sells a bird to a customer he always tries to give a little more in quality than the customer expects, this no doubt has been a very large factor in building up a large and successful patronage. Mr. Keeler has an announcement of page 273 that should interest all lovers of White Wyandottes. Look it up and ask him for his catalogue. He will send it promptly if you mention A. P. W.

***** Patronize A. P. W. advertisers they are reliable Look up our guarantee on the first page. It protects you.**

WORLD'S CHAMPION DARK CORNISH EXHIBITED AS WARD AND CHILSER. Score the most remarkable victory in Cornish history at the Palace, New York, December 1915- 631 points for best display to nearest competitor 330. For further information about this great victory and price list write John W. Ward, Box 6, Pennington, N. J.

COME TO HEADQUARTERS IF YOU WANT THE BEST IN DARK CORNISH
Eggs from six unrivaled pens for the 1915 breeding season. Exhibition stock for sale at all times. STAMP BRINGS MATING LIST.
IDEAL DARK CORNISH YARDS, DR. W. A. LOW, Prop., CATONSVILLE, MD

TWO SWEEPSTAKE CHAMPIONSHIPS
THE COLISEUM, CHICAGO



S. C. WHITE LEGHORNS

Cocks 1-3
Cockerels 1-4
Old Pens 2-3
Young Pens 1-2
Coliseum Sweepstake Cup
Total Points - 66
Nearest Competitor - 43

SILVER CAMPINES

3 Hens in Single Class
3 Pullets in Single Class
2 Cockerels in Single Class
2 Old Pens
3 Young Pens
Coliseum Sweepstake Cup
American Campine Club Challenge Cup



Blue Ribbon Winner
Coliseum 1915

EXHIBITION STOCK furnished for any Show in the Country. HATCHING EGGS: 20 Pens
Now Mated. Write for Mating List.

Blue Ribbon Winner
Coliseum, 1915

FRANK E. HERING,

SOUTH BEND, INDIANA

NOW  **25** *Times*  **World's Champion Incubators and Brooders**

Jim Rohan Pres. Postal brings my great book, "Hatching Facts" to you. Championship winners tell in their own words how to make most profits. 100 photographs of winning hatches.

"In twenty-five world's greatest matches Belle City won with perfect hatches"

SEND for my new big free book, "Hatching Facts," today. The whole wonderful story told by the winners themselves. Book gives all facts—proofs—particulars—shows 100 actual photographs of prize-winning hatches—gives full description and illustrations of incubator and brooder in actual colors. An outfit made for hatching—that there's no such thing as matching." 402,000 in use—the kind used by U. S. Government and leading Agricultural Colleges. With the book comes my **\$1300.00 Gold Offers**

Greatest Book on Chicken Raising Ever Published Sent Free



Conditions easy to receive biggest pay

Learn how I paid one Belle City user \$156.25, another \$50, two others each \$45.00 and many others from \$33.00 down. Learn how thousands have made big hatches and cash profits with my 25 Times World's Champion Belle City Incubator—how my World's Famous Belle City Brooder saves the chicks and raises the highest percentage—how you can make the most money out of poultry this year whether you go into it on a large or a small scale—how my World's Champion

"Adds a money-making charm To the poorly paying farm"

My book "Hatching Facts" shows money-making opportunities for every man, woman, boy or girl. With it comes my low prices—my ten-year personal money-back guaranty. Before you buy any other incubator or brooder read this book on Practical Poultry Raising. Write to me today. Jim Rohan, Pres.



Let Me Put You in the Prize Winning Hatching Class

Get my low price; 1-, 2-, 3-Months' Home Test Plan. Freight Prepaid.

Same as last year No one else can give you so much Hatching Value for so Little Money

We Ship Quick from Buffalo, Kansas City, Minneapolis or Racine

Belle City Incubator Company, Box 117, Racine, Wisconsin

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

ROESMONT

Pekin, Runner and
Muscovy Ducks.
Illustrated Catalogue

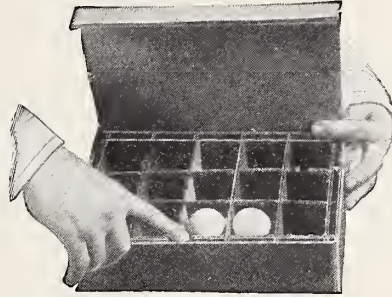
Win at Cleveland, 1916.

Ever better fancy fowls, 1916.

Roesmont, Franklin, Pa.

The Safest Way to Send Eggs

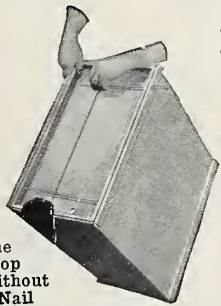
*Positive
Protection*



*"Ask the
Judges"*

Andrews' Efficiency Egg Carriers

Guaranteed to be the safest carriers you can buy. They protect every egg, prevent customers' complaints and stop allowances for breakage. The Hatching-Egg Carriers come all in one piece (top and bottom) and have double sides and ends which ease all jolts. Eggs stand on end. No special fitting to put box together. Gummed address label with every Hatching-Egg Carrier.



Andrews' Efficiency Koop

"The coop without a nail." Top and bottom held by steel rods with pins at ends. No hammer needed. Come knocked down. Light—save express charges. Can be used over and over.

LOW PRICES

Single Koop, \$3.00 ½ doz.
Pair or Trio, 4.00 ½ doz.
Pen..... 4.50 ½ doz.
Shipped only in ½ doz.
Lots.

The
Coop
Without
a Nail

Hatching Egg Carriers

15 Eggs,	95c per doz.
30	\$1.60 " "
50	2.25 " "
100	4.20 " "

Shipped only in lots of two dozen,
each size

Commercial Egg Carriers

One Doz. Size.....	50c per doz.
Two	80c " "
Three	\$1.10 " "
Four	1.35 " "
Five	1.60 " "
Ten	3.10 " "

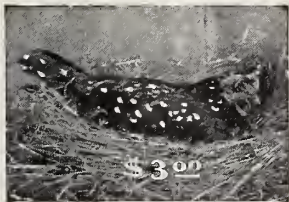
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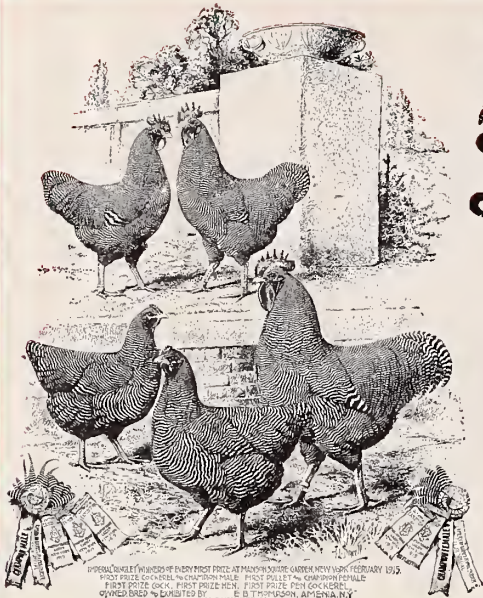
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Win at the Imperial Show of all the World, Madison Square Garden, New York, December 31st, 1915-January 5th, 1916, the following matchless record:

All Prizes and Ribbons offered on Cocks, Cockerels, Pullets and Exhibition Pens, viz.

- COCKS, 1st, 2nd, 3rd, 4th and 5th.
- COCKERELS, 1st, 2nd, 3rd, 4th and 5th.
- EXHIBITION PENS, 1st, 2nd, 3rd, 4th and 5th.
- PULLETS, 1st, 2nd, 3rd, 4th and 5th.
- HENS, 2nd, 3rd and 4th.

- THE PRESIDENT'S SILVER CUP FOR BEST DISPLAY.
- SWEEPSTAKES SPECIAL FOR CHAMPION MALE.
- SWEEPSTAKES SPECIAL FOR CHAMPION FEMALE.

Winners of every first prize offered at Madison Square Garden, New York, February, 1915—first cock, first Cockerel, first pullet, first hen and first pen cockerel.

SPECIAL FOR BEST SHAPED MALE.

SPECIAL FOR BEST COLORED MALE.

SPECIAL FOR BEST SHAPED FEMALE.

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Diploma presented by the American Poultry Association for Best Cockerel, Special for Best Cockerel and Pullet, Best Cock and Hen, Three Best Cockerels. More first and special prizes than any exhibitor of any breed.

Madison Square Garden is the recognized quality show of all America—It is the center of a system around which all other shows revolve. My exhibit of 100 birds of supreme quality is the accomplishment of a feat unknown in the entries of poultry shows—unequaled in the annals of Barred Rock history.

The amazing records of all prizes offered on Cockerels, viz., 1st, 2nd, 3rd, 4th and 5th, three years in succession; of all prizes offered on Pullets, viz., 1st, 2nd, 3rd, 4th and 5th for the second time and both Champion Male and Champion Female at three shows at New York declares the Imperial "Ringlets" have reached the summit of superior excellence.

You Are Now Thinking About Eggs to Produce the Silver Cup and Blue Ribbon Winners for Next Season's Shows

Think of the great satisfaction of winning prizes on birds you raise with your own hands—from the time the chick first sees daylight until the Blue Ribbon hangs on the coop in the show room. The delight of winning on a bird you owned all its lifetime cannot be described.

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 and capable of winning in the strongest competition—Hundreds of my customers have done this.

My Eggs Are The Best That Money Can Buy—They Produce First Prize Birds



Imperial "Ringlet" Eggs

Mr. E. B. Thompson:—

Dear Sir:—Just a few lines to let you know what the Imperial "Ringlets" have done for us in the show room this last fall and winter. The Mountain Poultry and Pet Stock Ass'n., of Kane, Pa., held their show last week. We had 28 birds entered and they were admired by everyone as well as by the judges; in prizes we took 1st, 2nd, 3rd, 4th, 5th Cockerel, 1st, 2nd, 3rd, 4th, 5th Pullet, 1st, 2nd, 3rd, Pen, 1st, and 5th Hen, 3rd Cock; Special for Best Pen in show, also Special Silver Cup for Best Display in American class. At McKean Co. Fair and Johnsonburg Show they won the Blues also. These birds are all from the stock we raised from the eggs we bought of you in the spring of 1914. We have some promising youngsters from the eggs we got of you last spring too.

Yours respectfully,

Nelson Bros.

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